





SUMMER VACATION

Holiday Homework Grade – XII (Science)





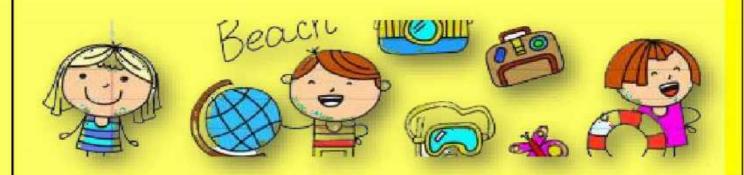


Summers again and its time for a break. Let us break the monotony of doing the home assignments by completing them under the guidance of their teachers and parents. The summer vacation begins from 27th May,2022 and school will reopen on 4th July,2022. Parents can download holidays homework from school's website i.e www.lotusvalley.edu.in or Ecare- App.

Here are few suggestions for parents:-

- Make sure that you are spending quality time with your wards. It is very important to keep their anxiety at minimum.
- Giving them small responsibilities in household chores will aid them to be independent.
- Teach them the importance of moral values in their life.
 Also students can :-
- Read book, May it be fairy books, encyclopedia or comic books. Explore the imaginative world and go on a fantasy tour.
- Run, exercise, sweat! Channelize your energy and enjoy playing indoor games.
- Enhance communication skills by conversing with your friends and family in English.
- Explore the culture and heritage of the world by visiting heritage sites virtually.
 Download the app "Google Earth" and enjoy virtual tours around the Earth.

Wish you all a fun filled, safe and healthy holidays ahead!



Instructions for completing assignments-

- All the assignments are to be done in subject notebook with proper date and headings.
- The written part should be neatly presented in student's handwriting. Take the help of your parents if necessarily required.
- Remember a well presented 'Holiday Homework' fetches your marks and appreciation of your teachers and classmates. It carries 10 marks.
 - Revise all the work done in class till date.

ENGLISH

Speaking activity

- a) Drug Addiction and Youth
- b) Consumer Rights and Consumer Awareness
- c) Indian Democracy and Media Responsibility
- d) Donate for a noble cause
- e) All Enterance Tests should be abolished
- f) Rising Crime Rates- Value Based Education is the only

An

=	Far from gusty waves these children's faces.
	Like rootless weeds, the hair torn round their pallor:
1	The tall girl with her weighed-down head. The paperseeming boy, with rat eyes.
	Answer the following.
	(a) The children's faces were signs of their rootless condition. (True/False)
	(b) The tall girl bows her head with the burden of studies. (True/False)
	(c) From which type of landscape is the location described in these lines, far from?
	(d) in the boy's face have been compared to a rat
2	Open-handed map
	Awarding the world its world. And yet, for these
	Children, these windows, not this map, their world,
	Where all their future's painted with a fog,
	A narrow street sealed in with a lead sky
	Far far from rivers, capes, and stars of words. Answer the following.
	(a) For the children in the classroom the only world that they know of is outside their classroom windows. (True/False)
	(b) The map in the classroom is pinned to the window of the classroom. (True/False)
	(c) The school is located in a street.
	(d) The future of the children is dull and has been compared to a
3	Surely, Shakespeare is wicked, the map a bad example,
	With ships and sun and love tempting them to steal—
	For lives that slyly turn in their cramped holes
	From fog to endless night? On their slag heap, these children
	Wear skins peeped through by bones and spectacles of steel
	With mended glass, like bottle bits on stones.
	Answer the following.
	(a) The map is a bad example for the children as it tempts hopes in the children. (True/False)
	(b) After seeing ships and sunshine, the children's minds are slyly turning in their cramped
	(c) The children's living quarters are described as heaps.
	(d) What metal is used to make the children's spectacle frames?
4	What changes does the poet hope for in the lives of slum children?
5	What message does Stephen Spender convey through his poem 'An Elementary School Classroom in a Slum'?
6	What is the theme of the poem?

7 How does the poet describe the classroom walls? What do they symbolize?

Or

What do you think is the colour of 'sour cream'? Why do you think the poet has used this expression to describe the classroom walls?

8 How is the world depicted on the classroom walls different from the world of slum children?

Or

The walls of the classroom are decorated with the pictures of 'Shakespeare', 'buildings with domes', 'World maps' and beautiful valleys. How do these contrast with the world of these children?

- What does the poet want for children of the slums? How can their lives be made to change?
- ¹⁰ What does the world of the slum children consist of?

Journey to the End of the Earth

What emotions did the author experience when she reached Antarctica at last?

1

- 2 What is the visual experience in Antarctica?
- 3 How has Antarctica sustained itself and managed to remain pristine?
- 4 What are the reasons for the success of the Students on Ice programme?
- 5 What is that beauty of balance that a trip to Antarctica unfolded to the author?
- 6 Why does the author conclude the chapter by saying that a lot can happen in a million years, but what a difference a day makes?
- 7 Why is it necessary to remain fully equipped while walking on ice?
- 8 What is the significance of the title 'Journey to the End of the Earth'?
- 9 What makes Antarctica an ideal subject of study?
- 10 The author states that her Antarctic experience was full of epiphanies, but the best occurred just short of the Antarctic Circle of 65–55 degrees south? Explain.

The Third Level

What does the narrator think of Grand Central? What does it symbolize?

2 What strange things did the narrator see when he reached the third level of Grand Central?

- 3 What did the narrator do to make sure that he was actually at the third level of Grand Central?
- 4 Why did the narrator turn towards the ticket windows? Why did he run back from there?

- 5 What did the narrator do the next day?
- 6 Why could Charley not be convinced by his distractions that the third level was only a wish fulfilment?
- 7 What happened to the narrator's psychiatrist friend Sam Weiner? What do you deduce from it?
- 8 What had Sam Weiner written on the paper in the first-day cover?
- 9 But that's the reason, he said, and my friends all agreed. Everything points to it, they claimed. My stamp collecting, for example; that's a 'temporary refuge from reality.' Well, maybe, but my grandfather didn't need any refuge from reality; things were pretty nice and peaceful in his day, from all I hear, and he started my collection. It's a nice collection too, blocks of four of practically every U.S. issue, first-day covers, and so on. President Roosevelt collected stamps too, you know. (a) Which place is referred to as the Third Level In the story of the similar name? (i) The Grand Central Station of London (ii) The Grand Airport of London (iii) The Grand Central Airport of New York (iv) The Grand Central Station of New York (b) Stamp collecting hobby is known by another name. What is it? (ii) Philately (ii) Calligraphy (iii) Landscaping (iv) Sculpting (c) What do the first-day covers refer to? (i) cover of the book (ii) a gift pack (iii) an envelope with a stamp on the first day of its release (iv) a hard-bound book (d) What does the phrase 'temporary refuge from reality ' mean in the story? (i) A temporary escape from reality (iii) A shelter home (iii) An escape for a long period (iv) A forever escape from reality
- 10 Now, I don't know why this should have happened to me. I'm just an ordinary guy named Charley, thirty-one years old, and I was wearing a tan gabardine suit and a straw hat with a fancy band; I passed a dozen men who looked just like me. And I wasn't trying to escape from anything; I just wanted to get home to Louisa, my wife.

I turned into Grand Central from Vanderbût Avenue, and went down the steps to the first level, where you take trains like the Twentieth Century. Then I walked down another flight to the second level, where the suburban trains leave from, ducked into an arched doorway heading for the subway — and got lost.

1001	
(a) What had happened to '1'?	
(i) He was becoming forgetful.	
(ii) He wasn't feeling too well.	
(iii) He had forgotten his way.	
(iv) He had lost his office files.	
(b) Charley's age as mentioned in the extract i	s
(i) early thirties	
(ii) mid-thirty	
(iii) late thirties	
(iv) late twenties	
(c) Where was Charley headed towards?	
(i) Mail	
(ii) Theatre	
(III) Home	
(iv) Church	
(d) Charley passed by a	men who looked just like him.
(i) few	
(ii) many	
(iii) half-a-dozen	

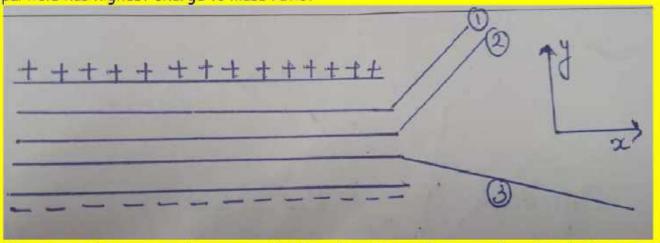
PHYSICS

(iv) dozen

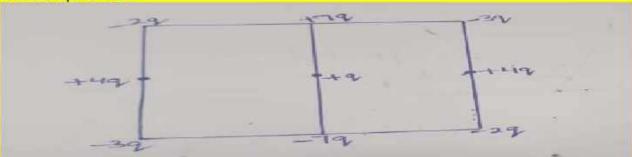
- Q1. a. Explain the meaning of statement 'electric charge of Body is quantised'.
- b. Why can one ignore quantisation of electric charge when dealing with macroscopic i.e large scale charges?
- Q2. Coloumb's Law in Vector form:

Q3. States Superposition principal with proof:

Q4. Fig. Shows tracks of three charged static field. Five sign of three charges, which particle has highest charge to mass ratio?



Q5. A particle carrying charge +q is held at the centre of square of each side 1 mts. It is surrounded by eight charges arranged on square as shown in fig. If Q=2 uc. What is net force on particle?



Q6. Two charges 5×10^{-8} C and -3×10^{-8} C are located 16 cm. apart. At what position on the line joining the two charges is the electric potential zero? Take the potential at infinity to be zero.

Q7. Electric field Intensity due to a dipole:

a. On Axial Line.

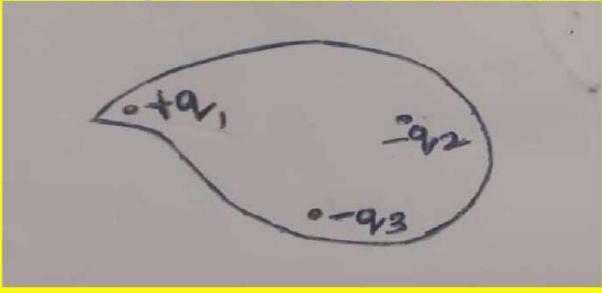
b. On Equitorial Line.

c. At any Point

Q8. Torque Acting on Dipole in Uniform Electric field.

Q9. State and explain Gauss theorem for electrostatic.

Q10. Given fig. Shows three charges enclosed by Gaussian surface. What is the flux of electric field through the Gaussian surface if q1=+3.0 nc, q2=-6.0 nc and q3=-3.0 nc.



- Q11. Electric field intensity due to an infinitely long straight uniformly charged wire.
- Q12. Electric field intensity due to uniformly charged
 - a. Infinite plane sheet.
- b. two paralled infirite plane sheet
- Q13. Electric field intensity due to uniformly charged thin spherical shell.
 - a. at a point out side the shell.
- b. at a point Inside the shell
- Q14. Two large paralled thin plates are placed close to each other. The plates have surface charge density of opposite sign and of magnitude $20x10^{-12}$ c/ml. Calculate the electric field intensity -
- i. In the outer region of plates.
- ii. In the interior region of plates.
- Q15. Point charges of $3x10^{-9}$ C are located at two vertices of equilateral triangle of side 20 cm. How much work be done to bring a test charge $+1.0x10^{-9}$ C up to the third corner of triangle from an infinite distance away.
- Q16. Derive an expression for the capacitance of spherical conductor. Find the Potential of sphere having charge 5 mc and capacitance of 1nF.
- Q17. What is the Principle of Parallel plate capacitor? Derive the expression for capacitance of parallel plate capacitor.
- Q18. Energy stored in charged capacitor derives Expression.
- Q19. Derive an Expression for capacitance of parallel plate capacitor with conducting slab between the plates.
- Q20. What is the function of second plate in parallel plate capacitor?

CHEMISTRY

Assignment

- 1. Define solution.
- 2. Give an example of each : (i) Solid in solid solution (ii) Liquid in solid solution
- 3. Find the strength of 0.01 molar sugar solution in water.
- 4. What is the molarity of 0.5 N H₂SO₄ solution?
- 5. Explain the effect of temp. and pressure on the solubility of a gas in liquid?
- 6. What is transition temp.?
- 7. Define the molarity and molality. Why molality is preferred to molarity?
- 8. Which of the following are not affected by temp. : molarity, normality, molality and mole fraction. Give reason.
- 9. State and explain Henry's law. What are its limitations?
- 10. What is the effect of temp. on the value of Henry's constant?
- 11. What is the cause of dissolution of NaCl in water?
- 12. Define vapour pressure of a liquid. Explain the effect of addition of non-volatile solute to liquid on its vapour pressure.
- 13. What are solubility curves?
- 14. State and explain Raoult's law for solution containing: (i) volatile solute (ii) non volatile solute.
- 15. Give the example of each: (i) substitution solid solution (ii) Interstitial solid solution.

SUIULIUII

- 16. What are ideal solutions? What type of solutions are generally ideal?
- 17. What is non-ideal solution. What types of deviations from ideal behavior are shown by mixture of (i) ethanol and cyclohexnae (ii) chloroform and acetone? Give reason for such deviations.
- 18. What is azeotrpic mixture?
- What is the sign ΔH and ΔV for non-ideal solution showing (i) positive deviation (ii) negative deviation. Explain.
- 20. What are colligative properties? What is their use?
- 21. Define osmosis. Who discovered this phenomenon?
- 22. Which method is used for osmosis pressure measurement?
- 23. Which colligative property is preferred for molar mass determination of macromolecules and why?

BIOLOGY

Complete Practical file till 5 experiments.

Do the given assignment in a separate holiday's homework notebook

ASSIGNMENT QUESTIONS

- 1. Lactational Amenorrhea is a method of contraception Justify. What is the maximum effectiveness of this method in terms of period/duration?
- 2. How are non medicated IUD'S different from hormone releasing IUD'S? Give examples.
- 3. How does Cu- T act as a contraceptive?
- 4. What are Test tube babies? Are they different from normal babies?
- 5. What does GIFT represent?
- 6. Explain the structure of megasporangium and female gametophyte with diagram.
- Even though microspore has 2 male gametes why a plant require 10 microspores to fertilize 10 ovules.
- 8. Design the various steps that you would plan to combine desirable characters of 2 species. What are such evperiments called?
- 9. Draw LS of flower showing growth of pollen tube.
- 10. Draw a dicot embryo before and after a heart shaped embryo is formed .
- 11. Give reasons why:
 - a. Pollen products are sold in the market
 - b. Yucca moth deposits its eggs in the ovary locule of yucca plant.
 - c. Pollen of the wrong type does not germinate on stigma.
 - d. Active research is on to understand genetics of apomixes.
 - e. Pollens are well preserved in fossils.
- 12. a Due to congenital defect, a woman does not have fimbriae in the fallopian tube
 - . How will it affect her ?
 - b. What is the difference between spermiogenesis and spermiation?
- 13. What is the role of LH in a human male and female?
- 14. Justify giving reasons:
 - a. Corpus luteum secrets large amounts of progesterone if egg is fertilized .
 - b. During pregnancy there is a increase in the levels of hormones like estrogens,

progesterons, cortisol, prolactin, thyrixine etc in maternal blood.

- c. Colostrum is absolutely essential for the newborn.
- d. Placenta can be referred to as 'transporting organ".
- List out the sequence of events after fertilization to implantation of the human embryo.
- 16. How many primary follicle will be there at the time of puberty in the human ovary
- 17. Explain how Mendel carried out the hybridization experiment in pea plant.
- 18. What is the meaning of chromosomes? Why was it named so?
- 19. How did Morgan use symbols for his dihybrid cross .Explain with examples?
- 20. Give an example of an insect in which the sex determination is similar to man Justify why?
- 21. Give the aminoacid sequence of HbA peptide uptil the 7 aminoacid in a normal haemoglobin .
- 22. Give appropriate names for the following:
 - a. DNA wrapped round histone octomere.
 - b. Beads on string structure in nucleus
 - c. Transcriptionally active chromatin.
- 23. When heat killed S strain was treated with enzyme 'X' and mixed with live R strain and injected into mice ,there was no transformation .Explain the above result and identify 'X'.
- 24. When a virus is grown in radioactive phosphorus medium why is the radioactivity detected only in its DNA?
- 25. State the various conclusions derived by Griffith in his experiment.

PHYSICAL EDUCATION

Make a project report on yoga

Information Technology

Revise Employability Skills - IV

Music Vocal

प्रश्न 1निम्नलिखित पर संक्षिप्त टिप्पणी कीजिए।

अलंकार कन खटका मीड आलाप तान।

प्रश्न 2 राग भैरव का संपूर्ण परिचय लिखिए।

प्रश्न 3 रागों के समय सिद्धांत के विषय में विस्तार से लिखिए।

प्रश्न 4 झप ताल रूपक ताल धमार ताल का परिचय 1 गुण 2 गुण 3गुण व चौगुन सहित लिखिए। प्रश्न 5 अपनी प्रैक्टिकल फाइल प्री करें।

Maths

ASSIGNMENTS

(i). Order, Addition, Multiplication and transpose of matrices:

1. If a matrix has 5 elements, what are the possible orders it can have?

[CBSE 2011]

- 2. Construct a 3 × 2 matrix whose elements are given by $a_{ij} = \frac{1}{2}i 3j$
- 3. If $A = \begin{bmatrix} 1 & 2 & 3 \\ 3 & 1 & 3 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 3 & 1 \\ 1 & 0 & 2 \end{bmatrix}$. then find A-2B.
- 4. If $A = \begin{bmatrix} 2 & 1 & 4 \\ 4 & 1 & 5 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & -1 \\ 2 & 2 \\ 1 & 3 \end{bmatrix}$, write the order of AB and BA.

LEVEL II

1. For the following matrices A and B, verify $(AB)^T = B^TA^T$,

where
$$A = \begin{bmatrix} 1 \\ -4 \\ 3 \end{bmatrix}$$
, $B = \begin{bmatrix} -1 & 2 & 1 \end{bmatrix}$

Give example of matrices A & B such that AB = O, but BA ≠ O, where O is a zero matrix and

B are both non zero matrices.

- If B is skew symmetric matrix, write whether the matrix (ABAT) is
- Symmetric or skew symmetric.

 4. If $A = \begin{bmatrix} 3 & 1 \\ 2 & 5 \end{bmatrix}$ and $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$, find a and b so that $A^2 + aI = bA$

LEVEL III

- 1. If $A = \begin{bmatrix} 2 & 0 & 1 \\ 2 & 1 & 3 \\ 1 & -1 & 0 \end{bmatrix}$, then find the value of A = 3A + 2I2. Express the matrix A as the sum of a symmetric and a skew symmetric matrix, where: $A = \begin{bmatrix} 3 & -2 & -4 \\ 3 & -2 & -5 \end{bmatrix}$

$$A = \begin{bmatrix} 3 & -2 & -4 \\ 3 & -2 & -5 \\ -1 & 1 & 2 \end{bmatrix}$$

3. If $A = \begin{bmatrix} a & b \\ 0 & 1 \end{bmatrix}$, prove that $A^n = \begin{bmatrix} a^n & \frac{b(a^n-1)}{a-1} \\ 0 & 1 \end{bmatrix}$, $n \in \mathbb{N}$

(ii) Cofactors & Adjoint of a matrix

LEVEL I

- 1. Find the co-factor of a_{12} in $A = \begin{bmatrix} 2 & -3 & 5 \\ 6 & 0 & 4 \\ 1 & 5 & -7 \end{bmatrix}$ 2. Find the adjoint of the matrix $A = \begin{bmatrix} 2 & -3 & 5 \\ 4 & 0 & 4 \\ 1 & 5 & -7 \end{bmatrix}$

LEVEL II
Verify A(adjA) = (adjA) A =
$$|A|I$$
 if
1. $A = \begin{bmatrix} 2 & 3 \\ -4 & -6 \end{bmatrix}$

1.
$$A = \begin{bmatrix} 2 & 3 \\ -4 & -6 \end{bmatrix}$$

2.
$$A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 2 \\ 3 & 3 & 4 \end{bmatrix}$$

(iii)Inverse of a Matrix & Applications

LEVEL I

- 1. If $A = \begin{bmatrix} 2 & 3 \\ 5 & -2 \end{bmatrix}$, write A^{+} in terms of A CBSE 2011

 2. If A is square matrix satisfying $A^{2} = 1$, then what is the inverse of A?

 3. For what value of k, the matrix $A = \begin{bmatrix} 2 k & 3 \\ -5 & 1 \end{bmatrix}$ is not invertible?

- 1. If $A = \begin{bmatrix} 3 & -5 \\ -4 & 2 \end{bmatrix}$, show that $A^2 5A 141 = 0$. Hence find $A^{(1)}$
- If A. B. C are three non zero square matrices of same order, find the condition on A such that $AB = AC \implies B = C$.

3. Find the number of all possible matrices A of order 3 × 3 with each entry 0 or 1 and for which
$$A\begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}$$
 has exactly two distinct solutions.

LEVEL III

- If $A = \begin{bmatrix} 2 & 3 & 1 \\ -3 & 2 & 1 \\ 5 & -4 & -2 \end{bmatrix}$, find A^{-1} and hence solve the following system of equations: 2x + 3y + 5z = 11, 3x + 2y + 4z = -5, x + y + 2z = -3
- Using matrices, solve the following system of equations:

a.
$$x + 2y - 3z = -4$$

 $2x + 3y + 2z = 2$
 $3x - 3y - 4z = 11$

[CBSE 2011]

b.
$$4x + 3y + 2z = 60$$

 $x + 2y + 3z = 45$
 $6x + 2y + 3z = 70$

[CBSE 2011]

- 3. Find the product AB, where $A = \begin{bmatrix} 1 & -1 & 0 \\ 2 & 3 & 4 \\ 0 & 1 & 2 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 2 & -4 \\ -4 & 2 & -4 \\ 2 & -1 & 5 \end{bmatrix}$ and use it to solve the equations x - y = 3, 2x + 3y + 4z = 17, y + 2z =
- 4. Using matrices, solve the following system of equations:

$$\frac{1}{x} - \frac{1}{y} + \frac{1}{z} = 4$$

$$\frac{2}{x} + \frac{1}{y} - \frac{3}{z} = 0$$

$$\frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 2$$

5. Using elementary transformations, find the inverse of the matrix

$$\begin{bmatrix} 1 & 2 & -2 \\ -1 & 3 & 0 \\ 0 & -2 & 1 \end{bmatrix}$$

(iv)To Find The Difference Between |A|, |adjA|, |kA|

LEVEL I

- | cos15" sin15" | [CBSE 2011] 1. Evaluate
- 2. What is the value of [31], where I is identity matrix of order 3?
- 3. If A is non singular matrix of order 3 and |A| = 3, then find |2A|
- 4. For what valve of a, $\begin{bmatrix} 2a & -1 \\ -8 & 3 \end{bmatrix}$ is a singular matrix?

LEVEL II

- 1. If A is a square matrix of order 3 such that |adjA| = 64, find |A|
- If A is a non singular matrix of order 3 and |A| = 7, then find |adjA|

4. Express
$$A = \begin{bmatrix} 3 & 2 & 3 \\ 4 & 5 & 3 \\ 2 & 4 & 5 \end{bmatrix}$$
 as the sum of a symmetric and a skew-symmetric matrix.

5. Let
$$A = \begin{bmatrix} -1 & -4 \\ 1 & 3 \end{bmatrix}$$
, prove by mathematical induction that : $A^n = \begin{bmatrix} 1-2n & -4n \\ n & 1+2n \end{bmatrix}$.

6. If
$$A = \begin{bmatrix} 3 & 1 \\ 7 & 5 \end{bmatrix}$$
, find x and y such that $A^2 + xI = yA$. Hence find A^{-1} .

7. Let
$$A = \begin{bmatrix} 0 & -\tan\frac{\alpha}{2} \\ \tan\frac{\alpha}{2} & 0 \end{bmatrix}$$
 and $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$. Prove that $I + A = (I - A) \begin{bmatrix} \cos\alpha & -\sin\alpha \\ \sin\alpha & \cos\alpha \end{bmatrix}$.

8. Solve the following system of equations:
$$x + 2y + z = 7$$
, $x + 3z = 11$, $2x - 3y = 1$.

9. Find the product AB, where
$$A = \begin{bmatrix} -4 & 4 & 4 \\ -7 & 1 & 3 \\ 5 & -3 & -1 \end{bmatrix}$$
 and $B = \begin{bmatrix} 1 & -1 & 1 \\ 1 & -2 & -2 \\ 2 & 1 & 3 \end{bmatrix}$ and use it to solve

the equations
$$x - y + z = 4$$
, $x - 2y - 2z = 9$, $2x + y + 3z = 1$.

10. Find the matrix P satisfying the matrix equation
$$\begin{bmatrix} 2 & 1 \\ 3 & 2 \end{bmatrix} P \begin{bmatrix} -3 & 2 \\ 5 & -3 \end{bmatrix} = \begin{bmatrix} 1 & 2 \\ 2 & -1 \end{bmatrix}$$
.

Lab Mannual work

Complete 5 Lab Manual practical's discussed in Class.







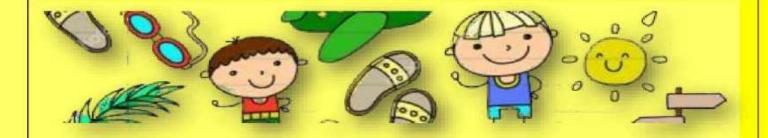
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Grade – XII (Commerce)





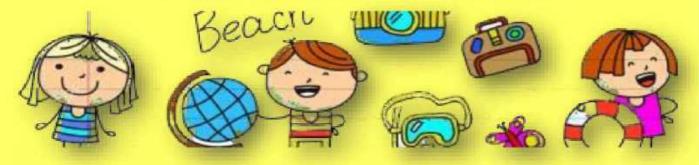


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- Run, exercise, sweat! Channelize your energy and enjoy playing indoor games.
- Enhance communication skills by conversing with your friends and family in English.
- Explore the culture and heritage of the world by visiting heritage sites virtually.
 Download the app "Google Earth" and enjoy virtual tours around the Earth.

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	(a) The children's faces wore signs of their rootless condition. (True/False) (b) The tall girl bows her head with the burden of studies. (True/False)
	(c) From which type of landscape is the location described in these lines, far from?
	(d) in the boy's face have been compared to a rat.
2	Open-handed map
	Awarding the world its world. And yet, for these
	Children, these windows, not this map, their world, Where all their future's painted with a fog,
	A narrow street sealed in with a lead sky
	Far far from rivers, capes, and stars of words.
	Answer the following.
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	(b) The map in the classroom is pinned to the window of the classroom. (True/False)
	(c) The school is located in a street.
	(d) The future of the children is dull and has been compared to a
3	Surely, Shakespeare is wicked, the map a bad example,
	With ships and sun and love tempting them to steal—
	For lives that slyly turn in their cramped holes
	From fog to endless night? On their slag heap, these children
	Wear skins peeped through by bones and spectacles of steel With mended glass, like bottle bits on stones.
	Answer the following.
	(a) The map is a bad example for the children as it tempts hopes in the children. (True/False) (b) After seeing ships and sunshine, the children's minds are slyly turning in their cramped.
	(c) The children's living quarters are described as heaps.
	(d) What metal is used to make the children's spectacle frames?
4	What changes does the poet hope for in the lives of slum children?
5	What message does Stephen Spender convey through his poem 'An Elementary School Classroom in a Slum'?
6	What is the theme of the poem?

7 How does the poet describe the classroom walls? What do they symbolize?

Or

What do you think is the colour of 'sour cream'? Why do you think the poet has used this expression to describe the classroom walls?

8 How is the world depicted on the classroom walls different from the world of slum children?

Or

The walls of the classroom are decorated with the pictures of 'Shakespeare', 'buildings with domes', 'World maps' and beautiful valleys. How do these contrast with the world of these children?

- What does the poet want for children of the slums? How can their lives be made to change?
- 10 What does the world of the slum children consist of?

Journey to the End of the Earth

What emotions did the author experience when she reached Antarctica at last?

2 What is the visual experience in Antarctica?

- 3 How has Antarctica sustained itself and managed to remain pristine?
- 4 What are the reasons for the success of the Students on Ice programme?
- 5 What is that beauty of balance that a trip to Antarctica unfolded to the author?
- 6 Why does the author conclude the chapter by saying that a lot can happen in a million years, but what a difference a day makes?
- 7 Why is it necessary to remain fully equipped while walking on ice?
- 8 What is the significance of the title 'Journey to the End of the Earth'?
- 9 What makes Antarctica an ideal subject of study?
- 10 The author states that her Antarctic experience was full of epiphanies, but the best occurred just short of the Antarctic Circle of 65–55 degrees south? Explain.

The Third Level

What does the narrator think of Grand Central? What does it symbolize?

- 2 What strange things did the narrator see when he reached the third level of Grand Central?
- 3 What did the narrator do to make sure that he was actually at the third level of Grand Central?
- 4 Why did the narrator turn towards the ticket windows? Why did he run back from there?

- What did the narrator do the next day?
 Why could Charley not be convinced by his distractions that the third level was only a wish fulfilment?
 What happened to the narrator's psychiatrist friend Sam Weiner? What do you deduce from it?
- 8 What had Sam Weiner written on the paper in the first-day cover?
- 9 But that's the reason, he said, and my friends all agreed. Everything points to it, they claimed. My stamp collecting, for example; that's a 'temporary refuge from reality.' Well, maybe, but my grandfather didn't need any refuge from reality; things were pretty nice and peaceful in his day, from all I hear, and he started my collection. It's a nice collection too, blocks of four of practically every U.S. issue, first-day covers, and so on. President Roosevelt collected stamps too, you know. (a) Which place is referred to as the Third Level in the story of the similar name? (i) The Grand Central Station of London (ii) The Grand Airport of London (iii) The Grand Central Airport of New York (iv) The Grand Central Station of New York (b) Stamp collecting hobby is known by another name. What is it? (i) Philately (ii) Calligraphy (iii) Landscaping (iv) Sculpting (c) What do the first-day covers refer to? (i) cover of the book (ii) a gift pack (iii) an envelope with a stamp on the first day of its release (iv) a hard-bound book (d) What does the phrase 'temporary refuge from reality 'mean in the story? (i) A temporary escape from reality (iii) A shelter home (iii) An escape for a long period (iv) A forever escape from reality
- 10 Now, I don't know why this should have happened to me. I'm just an ordinary guy named Charley, thirty-one years old, and I was wearing a tan gabardine suit and a straw hat with a fancy band; I passed a dozen men who looked just like me. And I wasn't trying to escape from anything; I just wanted to get home to Louisa, my wife.

I turned into Grand Central from Vanderbilt Avenue, and went down the steps to the first level, where you take trains like the Twentieth Century. Then I walked down another flight to the second level, where the suburban trains leave from, ducked into an arched doorway heading for the subway — and got lost.

lost.	ond level, where the suburban trains leave from, ducked into an arched doorway heading for the subway — and got
(a) What had happened to '1'?	
(i) He was becoming forgetful.	
(ii) He wasn't feeling too well.	
(iii) He had forgotten his way.	
(iv) He had lost his office files.	
(b) Charley's age as mentioned in t	he extract is
(i) early thirties	
(ii) mid-thirty	
(iii) late thirties	
(iv) late twenties	
(c) Where was Charley headed tow	ards?
(i) Mail	
(ii) Theatre	
(iii) Home	
(iv) Church	
(d) Charley passed by a	men who looked just like him.
(i) few	
(ii) many	
(iii) half-a-dozen	
(iv) dozen	

ACCOUNTANCY

Assignment 1

Note

Complete your board project file. Complete the assignment in separate note book.

Q1) What are the essential features of a partnership?

Q2) Write the contents for partnership deed?

Q3) X and Y started business with capital of Rs. 1,00,000 and Rs. 60,000 on 1st April 2018. Y is entitled to a salary of Rs. 800 per month. Interest is allowed on capitals and is charged on drawings at 6% per annum. Profits are to be distributed equally after the above noted adjustments. During the year X withdrew Rs. 16,000 and Y withdrew Rs. 20,000. The profit for the year before allowing for the terms of the partnership deed came to Rs. 60,000. Assuming the capitals to be fixed, prepare the capital and current accounts of X and Y.

Q4)Sita and Gita are partners in a firm. Balances of their capital accounts as on 1st April, 2018 were as follows; Sita Rs. 40,000, Gita Rs. 30,000. Sita introduced Rs. 5,000 as an additional capital on 1st October 2018 and Gita introduced Rs. 7,500 as additional capital on 1st November, 2018. Sita drew capital amounting to Rs. 7,500 on 1st January 2019 and Gita withdrew capital amounting Rs. 2,500 on 1st February, 2019. They have further agreed to allow interest on capital @12% per annum. Books of the accounts of the firm are to be closed on 31st March 2019. Calculate interest to be allowed on partner's capital.

Q5) Calculate the interest on drawings of X @ 10% p.a. for the year ended 31st March, 2018 in each of the following cases:-

- a) If his drawings during the year were Rs. 12,000
- b) If he withdrew Rs. 1,000 p.m. at the beginning of every month.
- c) If he withdrew Rs. 1,000 p.m. at the end of every month.
- d) If he withdrew Rs. 1,000 p.m. In the middle of each month.
- e) If he withdrew the following amounts; April 30th Rs. 3,000, June 30th Rs. 2,000, October 1st Rs. 4,000, December 31st Rs. 1,500, February 1st 2,500
- f) If he withdrew Rs. 3,000 at the beginning of each quarter
- g) If he withdrew Rs. 3,000 at the end of each quarter.
- h) If he withdrew Rs. 3,000 during the middle of each guarter.

Q6) What are the advantages of ratio analysis?

Q7) What is:-

a) Current ratio

b) Liquidity ratio

c) Solvency ratio

Q8) calculate current ratio from the following:-

Inventrory=5000

Debtors=10000

Prepaid Rent=9000

Cash=3000

Creditors=3000

Uneamed Rent=9000

Bank Overdraft=5000

Current Ratio is 2.5; working capital is Rs. 60,000. Calculate the amount of current assets and current liabilities. Ratio of current assets (Rs. 10,00,000) to current liabilities (Rs. 4,00,000) is 25:

- The accountant is interested in maintaining a current ratio of 2: 1 by acquiring some current assets on credit. Suggest him the amount of current assets that should be acquired.
- Q9) Inventories are Rs. 80,000; working capital Rs. 2,40,000; current assets; Rs. 40,000; calculate liquid/quick ratio.

Q10) Calculate Debt to Equity ratio from the following information:-

Total assets

Total Debts

Current Liabilities

1.25.000

1,00,000

50,000

Total Debts Rs. 15,00,000; current liabilities Rs. 5,00,000; capital employed Rs. 15,00,000. Calculate the total assets to debt ratio.

nay act exactly as desired by th	n a way that they may a	others in sucl	he objective of is to influence th	. Th	1.
artments by keeping in view	nong different departm	ordination an	eader. the basic job of is to establish c bjectives of the organisation.	Thob	2.
		722	olicy formulation is the function of -	Po	3.
agers	middle level managers all of these.		top level managers		
) operational managers	(c)	
	Coordination	n of managem	Thich of the following is not the function	W	l.
	Directing) Staffing		
	Directing	FIGURE AND THE SECOND) Planning		
		nce. (1/r)	lanagement is considered a perfect scie	Ma	
	M.Com	anager:	hich degree is essential to become a m		
	None of these) B.Com		
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2. The basic job of ____ is to establish coordination among different departments by keeping in view the

(b) middle level managers

(d) all of these.

(1)

leader.

objectives of the organisation. 3. Policy formulation is the function of -

(a) top level managers

(c) operational managers

Which of the following is not the function of a	nanageme	ent?	
	(b)	Coordination	m
	(d)	Directing	(1)
	(T/F)		(1)
Management is considered a perfect science	~~?		
	er:	M Com	
	(4)	None of these	(1)
(c) MBA	(u)	None of these	
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307)	(d)	cooperation	(1)
NA CONTRACTOR OF THE CONTRACTO			
	(b)	pervasive	
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Cooperation for the Science not rule of thumb Science not rule of thumb Development of each and every person to the second like the second l	(b) (d) te what s program) Technical style) Mental revolution he learnt in the class to real life mes, factories manufacturing co	situation. She observed omponents for products
	(a) Staffing (c) Planning Management is considered a perfect science. Which degree is essential to become a manag (a) B.Com (c) MBA Nos 7-10 are based on the following CASE. The Dabbawallas of Mumbai is the story of a single the complex yet well-coordinated exercise is the secret behind the efficiency with which The story of the Dabbawallas begins in the kitt begins the time-consuming process of prepari demonstrates the coordination of the Dabba houses and takes them to the nearest railway station according to destinations and puts the to the railway stations nearest to the destination from the most of a the offices. By mid-morning Mumbai, ensuring home-cooked and hot lum negligible technology. The dabbawallas rely of the achieve their target. There are several ground achieve their goal. Each area is divided into see particular person. This person understands the with practice. Many new employees work for time management are on top of the agenda for never get delayed even by a few minutes. Which concept is the basis of the success of 'Da' (a) management (c) efficiency Identify the feature of Management— (a) integrate group efforts (c) responsibility of all managers Coordination is (a) function of management (b) Cooperation not individualism (c) Science not rule of thumb (d) Cooperation not individualism (e) Science not rule of thumb (f) Development of each and every person to the essence of management works side by the paternalistic style (f) Management style (g) Management style (h) Paternalistic style (h) Management style (h) Paternalistic style (h) Management sty	(a) Staffing (c) Planning (d) Management is considered a perfect science. (T/F) Which degree is essential to become a manager? (a) B.Com (b) MBA (c) MBA (d) Nos 7-10 are based on the following CASE. The Dabbawallas of Mumbai is the story of a SIX SIGM, in the complex yet well-coordinated exercise that is carrist he secret behind the efficiency with which their busin The story of the Dabbawallas begins in the kitchens of M begins the time-consuming process of preparing the word demonstrates the coordination of the Dabbawallas syshouses and takes them to the nearest railway station. The station according to destinations and puts them in the lut to the railway stations nearest to the destinations. The fod drops them off at the offices. By mid-morning, thousand Mumbai, ensuring home-cooked and hot lunch for thein negligible technology. The dabbawallas rely on low capito achieve their target. There are several groups that we achieve their goal. Each area is divided into several small particular person. This person understands the address is with practice. Many new employees work for months utime management are on top of the agenda for dabbawall never get delayed even by a few minutes. Which concept is the basis of the success of 'Dabbawalla (a) management (c) efficiency (d) Identify the feature of Management— (a) integrate group efforts (b) cresponsibility of all managers (d) Coordination is	(d) Directing Management is considered a perfect science. (T/F) Which degree is essential to become a manager? (a) B.Com (b) M.Com (c) MBA Nos 7-10 are based on the following CASE. The Dabbawallas of Mumbai is the story of a SIX SIGMA business enterprise. The success of in the complex yet well-coordinated exercise that is carried out on the streets of Mumbai da is the secret behind the efficiency with which their business is conducted? The story of the Dabbawallas begins in the kitchens of Mumbai. After they stepped out of the begins the time-consuming process of preparing the worker a fresh, home-cooked lunch. Whoses and takes them to the nearest railway station. The second dabbawalla picks up thouses and takes them to the nearest railway station. The second dabbawalla sorts out the tift station according to destinations and puts them in the luggage carriage. The third one travel to the railway stations nearest to the destinations. The fourth one picks up tiffins from the radrops them off at the offices. By mid-morning, thousands of dabbawallas are bicycling throw Mumbai, ensuring home-cooked and hot lunch for their customers. The whole tiffins dist negligible technology. The dabbawallas rely on low capital and use cycles, wooden carriage to achieve their target. There are several groups that work independently and network we achieve their target. There are several groups that work independently and network we achieve their goal. Each area is divided into several small distribution sectors and each secto particular person. This person understands the address in that locality very well. Also, this with practice. Many new employees work for months under the guidance of their seniors. time management are on top of the agenda for dabbawallas. Which concept is the basis of the success of 'Dabbawallas.' (a) management (b) coordination (c) efficiency (d) cooperation (d) integrate group efforts (e) pervasive (f) pervasive (c) responsibility of all management (d) integrate group efforts (e) pervasive

- Difference between unity of command and unity of direction.
- 12. Difference between unity of committee of students and encourages team building through a 'Aapka Vidyalaya' believes in holistic development of students and encourages team building through a 'Aapka Vidyalaya' believes in holistic development of students and encourages team building through a 'Aapka Vidyalaya' believes in holistic development of students and encourages team building through a 'Aapka Vidyalaya' believes in holistic development of students and encourages team building through a 'Aapka Vidyalaya' believes in holistic development of students and encourages team building through a 'Aapka Vidyalaya' believes in holistic development of ten prefects was constituted to plan diff. 'Aapka Vidyalaya' believes in nonsuc development of state of ten prefects was constituted to plan different mix of curricular, co- curricular and sports. A committee of ten prefects was constituted to plan different mix of curricular, co- curricular and sports. A committee of ten prefects was constituted to plan different mix of curricular, co- curricular and sports. A committee of decoration of the function. They all decide to use recycled paper for decoration. There was a spirit of unity and aspects of the function. They all decide to use recycled paper for decoration. There was a spirit of unity and aspects of the function. aspects of the function. They all decide to use recycled party and belongingness the programme harmony and all members supported one another. With mutual trust and belongingness the programme harmony and all members supported one another. That the prefects, realised that unknowingly the group was systematically planned and executed. Kartik, one of the prefects, realised that unknowingly the group was systematically planned and executed. Raidly one of the planning and executing the programme. He was so had applied one of the principles of management while planning and executing the programme. He was so had applied one of the principles of management of the was so inspired by the success of the function that he asked his father to apply the same principle in his business. His father replied that he was already using this principle.
 - (a) Identify the principle of management applied for the success of the programme.
 - (b) State any two features of management highlighted in the above Para.

(4)

- 14. 'Taylor's principles of scientific management and Fayol's principle of management are mutually complementary.' Do you agree to this view? Give any four reasons in support for your answer.
- 15. Arnav, a manager of Micro Ltd., does not distribute the work amongst his subordinates, according to their capabilities. He has given the work on the basis of favouritism. Which principle is overlooked? Give some of its violating effects.
- 16. Hina has been appointed as the Chief Organiser of a weeklong cultural event. Being a staunch follower of scientific management, she decides to execute her work by putting into practice the various techniques of scientific management. On the basis of several observations, she is able to determine that the standard time taken by the security officer at the gate to check the credentials of each visitor is 30 seconds. So, she decides to employ two persons on this job for every function along with the other necessary support staff. She considers the fact that every day, the functions will take place in three shifts of four hours each, therefore it is important to give breaks to the support staff even in a single shift to take her/his lunch etc. Moreover, on introspection, she determines that the best way to distribute refreshment boxes to the visitors will be to hand them over to them at the exit gate as it would help to save time and eliminate any kind of confusion.

In the context of the above case.

Identify and explain the various techniques of work study which have been put into practice by Hina.

- 17. In each of the following cases, which principle of Fayol is being violated?
 - (a) When the manager contracts with his cousin for supply of materials, knowing that such materials are defective.
 - (b) When chalks are kept in library and books in office.
 - (c) A worker receiving orders from two bosses.
 - (d) When no department has a separate plan of action
 - (e) A subordinate habitually contacts higher authorities passing over his superior.
 - 1. The study of movements like lifting, putting objects, sitting and changing position, etc. is known as
 - 2. Rajat, the production manager of Auto India Ltd., passes on instruction regarding his departments freely and indiscriminately. Which management principle is violated here?
 - 3. Reena and Meena are working in the same organisation. They have similar experience and are performing Reena and Meeta are treatment are paid at the different rate. Which principle of management is violated? (1)
 - 4. 'Once selected, employees should be kept at their position for a minimum fixed tenure'. Which principle of management is highlighted in the statement?
 - 5. Principle of management equips the managers to foresee the cause-and-effect relationship of their decision and actions so that the wastages associated with a trial-and-error approach may be overcome. Identify the point of significance of principles of management highlighted here. (1)
 - 6. Match the features of principles of management given under Column A with the correct statement given under Column B.

Column A	Column B	(DECE
(a) Cause-and-effect	(i) They do not provide readymade solutions to managerial problems.	-
relationship.	(ii) Application of principles of management are not dynamic in nature	
(b) General guidelines	(iii) They can be used in large number of cases	

Q. Nos 7-10 are based on the following CASE.

Sakaar Foundation is an NGO (Non -Governmental Organisation) working to improve the lives of children with medical needs, the homeless and victims of natural disasters. Apart from donations in cash, they collected dry ration, old clothes, shoes, toys, books, medicines, etc. from donors. At Sakaar Foundation's office in Lucknow the material collected is segregated, classified and put in shelves and boxes that are labelled systematically. There is a specific place for each of these items and volunteers put everything at their respective places.

The volunteers' work is divided into specific jobs like fund raising, field visits, and social media updates and so on. Each volunteer becomes specialized in his respective field, leading to the efficient utilization of human

The management of Sakaar Foundation does not close its ears to any constructive suggestions made by the volunteers. There is an equal division of work and responsibility between volunteers and management. All day long the management works side by side the volunteers helping, encouraging and smoothing the way for them.

- 7. Each volunteer becomes specialized in his respective field, leading to the efficient utilization of human effort.
 - (a) Initiative

(b) Division of work

(c) Equity

(d) Authority and Responsibility

- 8. At Sakaar Foundation's office in Lucknow the material collected is segregated, classified and put in shelves and boxes that are labeled systematically. There is a specific place for each of these items and volunteers put everything at their respective places.
 - (a) Esprit de corps

(b) Discipline

(c) Order

(d) Scalar chain

(1)

- 9. The management of Sakaar Foundation does not close its ears to any constructive suggestions made by the volunteers. There is an equal division of work and responsibility between volunteers and management, Identify the scientific management
 - 10. Coordination is required at all levels of management in all management functions because it is nature.

(a) continuous

(b) flexible

- (c) intangible

 (c) intangible

 (d) r

 (e) r

 (l) r Is there any difference in planning, organising, starting, unecong the starting organisations organisations such as a school, a club, a restaurant and a steel plant? To which characteristic of management is this contains the starting of the starting organisations and the starting organisations are starting organisations.
- 12. What does the pyramid form of levels of management indicate?
- 12. What does the pyramid form of levels of the levels of Rishitosh Mukerjee has recently joined AMV Ltu., a company that the lound that his department was under-staffed and other departments were not cooperating with his department for the cooperation. Therefore, he ensured that his department has the required not be companied in the cooperation. his department was under-staffed and other department. Therefore, he ensured that his department has the required number smooth functioning of the organisation. Therefore, he ensured that his department has the required number of the required number of
 - (a) Identify the level at which Rishitosh Mukerjee was working.
 - (b) Also, state three more functions required to be performed by Rishitosh Mukerjee at this level.
- 14. XYZ Power Ltd. set up a factory for manufacturing solar lanterns in a remote village as there was no reliable supply of electricity in rural areas. The revenue earned by the company was sufficient, so the company supply of electricity in rural areas. The revenue earned by the company was sufficient, so the company supply of electricity in rural areas. decided to increase production to generate higher sales. For this they decided to employ people from the nearby villages as very few job opportunities were available in that area. The company also decided to open schools and creches for the children of its employees.

Identify and explain the objectives of management discussed above.

15. Sanjana is the branch manager of ABC Handicrafts Pvt. Ltd. The company's objective is to promote the sales of Indian handloom and handicraft products. It sells fabrics, furnishings, readymades and household items made out of traditional Indian fabrics. Sanjana decides quantities, variety, colour and texture of all the above items and then allocates resources for their purchase from different suppliers. She appoints a team of designers and crafts people in the company, who developed some prints for bed covers in bright colours on silk. Although they looked very impressive, they were more expensive than they had planned to sell. Average customer could not afford to buy it. Praising their effort, Sanjana suggested that they should keep the silk bed covers for special occasions like Diwali and Christmas and offer the cotton bed covers on a

regular basis to keep costs under control.

Identify the functions of management which Sanjana performs by quoting the lines from the above para. [5]

16. Wardrobe India Limited is a chain of ladies' garment boutiques where most of the work is done manually. Due to the arrival of international brands in India, the company is finding it difficult to compete on two fronts - finishing and embroidery work. The production manger realised that without modern machines it would not be possible for them to survive for long. The company purchases new hi-tech modern machines from Germany. During the production process, the manger observes that the quality of production is not as per standards and very often production is disrupted due to breakdown of machines. The workers get frustrated by continuous rejection of output and start showing resistance towards new technology. To increase the efficiency of the workers, the company decides to train their workers on-the-job under the able guidance of specialists. The workers who are able to pick the skills are promoted and made in charge of the notice trained groups. This creates a positive impact and everybody wants to learn. Suggestions from the workers

Identify and explain the importance of management highlighted here by quoting the lines from the above.

17. "Management is a science like physics or chemistry". Do you agree to this statement? Give reasons in support of your answer. of your answer.

Complete your project file.

ECONOMICS

Self Assessment Test 1

National Income and Related Aggregates

Time allowed: 1 hour

Maximum Marks: 25

Q.1 What is Macroeconomics?

(1 mark)

Q.2 Give any two examples of flow concept.

(1 mark)

Q.3 According to a report forwarded by the Reserve Bank of India, there was a fall in rate of inflation as measured by According to a report forwarded by the According to th statements represents the situation? (1 mark)

(a) CPI has fallen

(b) CPI has risen at a rate lower than the preceding year

(c) CPI is constant

Q.4 Depreciation is also known as:

(d) None of the above

(I mark)

(a) Capital loss

(b) Unforeseen obsolescence

(c) Capital allowance

(d) Both (a) and (b)

Q.5 Calculate "Intermediate Consumption" from the following data:

(3 marks)

S. No.	o. Items	
(i)	Gross value of output	(? in crore)
(ii)	Net value added at factor cost (NVAfc)	300
(iii)	Subsidies	100
(iv)	Depreciation	15
401000		30

- Q.6 Which of the following items will be included/not included while estimating Gross Domestic Product? Give valid reasons in support of your answer.
 - (a) Wages received by an Indian working in the British Embassy in India.
 - (b) Financial aids received from abroad after "Fani cyclone".

(c) Purchase of second hand machinery from abroad.

(3 marks)

Q.7 What is meant by the problem of double counting? Discuss briefly the two approaches to avoid this problem.

(3 marks)

Q.8 (a) Distinguish between Real Gross Domestic Product and Nominal Gross Domestic Product. (b) "Real Gross Domestic Product is a better indicator of economic growth than Nominal Gross Domestic

Do you agree with the given statement? Support your answer with a suitable numerical example. (4 marks)

Q.9 (a) The value of the nominal GNP of an economy was ₹2500 crore in a particular year. The value of GNP of that country during the same year, evaluated at the prices of base year, was ₹3000 crore. Calculate the value of the GNP deflator of the year in percentage terms. Has the price level risen between the base year and the

(3 marks)

(b) Calculate compensation of employees from the following data: Profits after tax (3 marks) ü, Interest Amount (in 7 crore) Gross Domestic Product at Market Price îñ. 20 iv. Goods and Services Tax 45 Consumption of Fixed Capital 200 Corporate Tax 10 50 25 5

Self Assessment Test 2

National Income and Related Aggregates

Time allowed: 1 hour

Maximum Marks: 25

Q.1 Define an intermediate good.

- Q.2 Wages received by an Indian working in the British Embassy in India will be included in Gross Domestic Product (GDP) of India. True/False? Give reason.
- Q.3 If the national income is ₹2,800 crore and NDPfc is ₹3,000 crore, which of the following option will be correct? (1 mark)
 - (a) Factor income from abroad ₹500 and factor income to abroad is ₹200
 - (b) Factor income from abroad ₹400 and factor income to abroad is ₹600
 - (c) Factor income from abroad ₹600 and factor income to abroad is ₹400
 - (d) Factor income from abroad ₹700 and factor income to abroad is ₹700

(1 mark)

- Q.4 Which of the following would be the normal resident of India? (a) An Indian working in an American embassy in India
 - (b) An Indian working in Singapore branch of an Indian bank.
 - (c) A team of German engineers in India on official job for six months.
 - (d) Five Afghan student pursing law in India for the last four years
- Q.5 "Circular flow of income in a two sector economy is based on the axiom that one's expenditure is other's income." (3 marks) Do you agree with the given statement? Support your answer with valid reasons.
- Q.6 "India's GDP is expected to expand 7.5% in 2019-20: World Bank" The Economic Times. Does the given statement mean that welfare of people of India increase at the same rate? Comment with reason. (3 marks)

Q.7 Calculate "Depreciation" from the following data:

(3 marks)

S. No. Items		(₹ in crore)
(i)	Gross value of output	300
9.5	Net value added at factor cost (NVAfc)	100
(iii)	Subsidies	15
	Intermediate Consumption	185

Q.8 Using numerical example, distinguish between Real National Income and Nominal National Income.

Explain any three precautions while calculating GDP by Value Added Method.

(6 marks)

Q.9 (a) Distinguish between net factor from abroad and net exports.

(2 marks)

(b) Calculate the value of "Mixed Income of Self-Employed" from the following data:

(4 marks)

_	culate the value of Mixed Intollic Co.	(₹ in crore)
S. No.	Items	17,300
(i)	Compensation of Employees	1,200
(ii)	Interest	1,100
(iii)	Consumption of Fixed Capital	?
(iv)	Mixed Income of Self-Employed	750
(v)	Subsidies	27,500
(vi)	Gross Domestic Product at Market price	2,100
(vii)	Indirect Taxes	1,800
(viii)	Profits	2,000
(ix)	Rent	

Self Assessment Test 3

National Income and Related Aggregates

Time allowed: 1 hour

Maximum Marks: 25

Q.1 What are 'non-monetary exchanges'?

(1 mark

Q.2 Define 'Value Addition'?

(1 mark

Q.2 Define value Addition.

Q.3 When national income (product) of the current year is estimated on the basis of prices prevailing in the current year. When national income (product) of the content is estimated on the basis of prices prevailing in the base year, it is called (i) ______ whereas when it is estimated on the basis of prices prevailing in the base year, it is called (i) ______ whereas when it is estimated on the basis of prices prevailing in the base year, it is called (i) ______ whereas when it is estimated on the basis of prices prevailing in the base year, it is called (i) _____ whereas when it is estimated on the basis of prices prevailing in the base year, it is called (i) _____ whereas when it is estimated on the basis of prices prevailing in the base year, it is called (i) _____ whereas when it is estimated on the basis of prices prevailing in the base year, it is called (i) _____ whereas when it is estimated on the basis of prices prevailing in the base year, it is called (i) _____ whereas when it is estimated on the base year, it is called (ii) _____ whereas when it is estimated on the base year, it is called (ii) _____ whereas when it is estimated on the base year, it is called (ii) _____ whereas when it is estimated on the base year, it is called (ii) _____ whereas when it is estimated on the base year. year, it is called (i)_______ (real national income/nominal national income) (Fill in the blanks with the conto (1 mark) Q.4 If Real GDP = ₹240 crore and Price Index = 120, Nominal GDP = _____? options)

(1 mark

Q.5 Calculate "Gross value of output" from the following data:

(3 marks

archite City		(₹ in crore)	
S. No.	Items	100	
(i)	Net value added at factor cost (NVAfc)	30	
(ii)	Depreciation	15	
(iii)	Subsidies	185	
(iv)	Intermediate Consumption	162	

- Q.6 If in a locality, a new park is developed by the municipal corporation, it will have externalities, both positive and negative. State on example each of both types of externalities with reason.
- Q.7 Define the problem of double counting in the computation of national income. State any two approaches to correct the problem of double counting. (6 marks)
- Q.8 Explain any three precautions while calculating national income by Income Distributed Method.

Will the following be included in domestic factor income of India? Give reasons in support of your answer.

(6 marks)

- (i) Compensation of employees paid by a foreign company located in India.
- (ii) Compensation of employees paid by American embassy in India to resident Indians.
- (iii) Expenditure on engine oil by car service station.
- Q.9 Given the following data, find the values of 'Operating Surplus' and 'Gross Domestic Capital Formation': (6 marks)

		(₹ in crore)
S. No.	Items	2,000
i	Government Final Consumption Expenditure	1,500
ii	Mixed Income of Self-Employed	12,000
iii	National Income	200
iv	Net Factor Income from Abroad	1
٧	Operating Surplus	500
vi	Profits	6,000
vii	Private Final Consumption Expenditure	700
viii	Net Indirect Taxes	1,800
xi	Net Exports	600
x	Consumption of Fixed Capital	3
xi	Gross Domestic Capital Formation	
xii	Wages and Salaries	6,000

Self Assessment Test 1.1

independent India?

distribution.	A Part Authorities Administration
	Chapter 1: Indian Economy on the Eve of Independence Maximum Marks: 25
	allowed: 1 hour (1 mark)
01	Arrange the following events of India before the independence in chronological order:
Ų.i	(i) The opening of the Suez Canal
	(ii) Introduction of the railways
	(iii) Second stage of demographic transition
	(iv) Incorporation of the Tata Iron and Steel Company
Q.2	India's demographic condition on the eve of independence was characterised by: (Choose the correct alternative) (1 mark)
	(a) High level of literacy, high mortality rates, high life expectancy and high level of poverty.
	to the state law life expectancy and Low level of poverty.
	(b) Low level of literacy, low mortality rates, low life expectancy and high level of poverty. (c) Low level of literacy, low mortality rates, high life expectancy and high level of poverty.
	(d) Low level of literacy, high mortality rates, low life expectancy and high level of poverty.
Q.3	is considered as one of the most important contributions of the British. (Choose the correct alternative) (1 mark)
	(a) Construction of all-weather roads
	(b) Introduction of the railways in 1850
	(c) Introduction of electric telegraph in India
	(d) The postal services
Q.4	Under the British colonial rule, the agricultural production decreased. True/False? Give reason. (1 mark)
Q.5	One of the significant drawbacks of the industrial policy pursued by the British colonial administration was the
	very limited area of operation of the public sector. This sector remark)
0	What was the focus of the economic policies pursued by the colonial government in India? What were the impacts of these policies?
Q.7	What was the two-fold motive behind the systematic deindustrialisation effected by the British in pre-

Q.8 Highlight the salient features of India's pre-independence occupational structure.

- (4 marks)
- Q.9 "Under the colonial regime, basic infrastructure such as railways, ports, water transport, posts and telegraph develop. However, the real motive behind infrastructure development was not to provide basic amenities to the people but to subserve various colonial interests."

What objectives did the British intend to achieve through their policies of infrastructure development in India?

(4 marks)

Q.10 "The social and economic challenges before India at the time of independence were enormous."

(6 marks)

Do you agree with the statement? Give reasons.

Self Assessment Test 1.2

Chapter 1: Indian Economy on the Eve of Independence

Time allowed: 1 hour

Maximum Marks : 25

Q.1 Write the correct sequence of alternatives given in Column II by matching them with respective terms in Column I:

Column I		Column II
Jan. 1997	India's first official census	(i) less than 2%
	Introduction of the railways in India	(ii) about 7%
	India's annual growth rate of aggregate real output during colonial period	(iii) 1850
	Female literacy level at the time of independence	(iv) 1881

Q.2 The opening of the Suez Canal in 1869:

(Choose the correct alternative) (1 mark)

- (a) Raised the cost of transportation between Britain and India.
- (b) Intensified British control over India's foreign trade.
- (c) Reduced the cost of transportation and made access to the Indian market easier.
- (d) Both (b) and (c)
- Q3 The country's growth rate of aggregate real output during the first half of the twentieth century was only (i) ______ and per capita real output was (ii) ______. (Fill up the blanks with correct answers) (1 mark)
- Q.4 Commercialisation of agriculture helped farmers in improving their economic condition.

True/False? Give reason. (1 mark)

- Q.5 Name some notable economists who estimated India's per capita income during the colonial period. (1 mark)
- Q.6 How did the restrictive policies of commodity production, trade and tariff pursued by the British colonial government affect the structure, composition and volume of foreign trade?
 (3 marks)
- Q.7 Although there was some evidence of a relatively higher yield of cash crops in certain areas of the country due to commercialisation of agriculture, but this could hardly help farmers in improving their economic condition. Explain why.
 (3 marks)
- Q.8 "The introduction of the railways in India was considered as one of the most important contributions of the British. However, the social benefits, which the Indian people gained owing to the introduction of the railways, were outweighed by the country's huge economic loss."
 - Do you agree with the above statement? Give valid reasons.

(4 marks)

- Q.9 Give a quantitative appraisal of India's demographic profile during the colonial period.
- (4 marks)
- Q.10 Underscore some of India's most crucial economic challenges at the time of independence.
- (6 marks)

Chapter 1: Indian Economy on the Eve of Independence

Time allowed: 1 hour

Column I

Maximum Marks : 25

Q.1 Write the correct sequence of alternatives given in Column II by matching them with respective terms in Column I:

A. Focus of the economic policies (i) To use a large export surplus to make payments for the expenses

Column II

	A. Focus of the economic policies pursued by the colonial government in India	incurred by an office set-up in British, expenses on war, and import of invisible items.
	B. Motive of the British behind the systematic deindustrialisation in India	(ii) To reduce India to the status of a mere exporter of important raw materials for the upcoming modern industries in Britain.
	C. Motive of the British behind infrastructural development in India	(iii) Protection and promotion of the economic interests of their home country then withe the development of the Indian economy.
	D. Motive of the British behind monopoly control over India's exports and imports	(iv) To subserve various colonial interests, e.g. mobilising the army within India and drawing out raw materials from the countryside to the nearest railway station or the port to send these to England.
	were introduced by the colonial governme	
Q.3	During the second half of the 19th centu in (i), while jute mills dor	rry, the cotton textile mills, mainly dominated by Indians, were located ninated by the foreigners were mainly concentrated in (ii) (1 mark)
	stage?	mark the demographic transition from its first to the second decisive (1 mark)
	overall literacy level was (i) about (ii)	rious social development indicators were not quite encouraging. The Out of this, the female literacy level was at a negligible low of (1 mark)
Q.6	How did the Zamindari system of reve misery and social tension among the cult	nue settlement introduced by the colonial government cause immense tivators? Why did the Zamindars adopt such an attitude? (3 marks)
Q.7	What was the two-fold motive behind the systematic deindustrialisation effected by the British in pre-independent India?	
Q.8	How did the restrictive policies of commodity production, trade and tariff pursued by the colonial governme adversely affect the structure, composition and volume of India's foreign trade? Explain. (4 mark	
Q.9	Highlight the salient features of India's p	ore-independence occupational structure. (4 marks)
Q.10	"During the British colonial rule, despite sector continued to experience stagnation	being the occupation of about 85% of India's population, the agriculture in and, not infrequently, unusual deterioration. Agricultural productivity
	became low." Do you agree with the above statement?	Give valid reasons in support of your answer. (6 marks)

Chapter 2: Indian Economy (1950-1990)

Time allowed: 1 hour

Maximum Marks : 25

Q.1 Write the correct sequence of alternatives given in Column II by matching them with respective terms in Column I

Column I		Column II
A.	Growth	(i) Adoption of new technology to increase the production of goods and services
B.	Modernisation	(ii) Avoiding imports of those goods which could be produced in India itself.
_	Self-reliance	(iii) Every Indian should be able to meet his/her basic needs such as food, a decenhouse, education and health, and inequality in the distribution of wealth should be reduced.
D.	Equity	(iv) Increase in the country's capacity to produce the output of goods and service within the country.

- Q.2 The annual growth rate of the industrial sector during 1950-1990 was: (Choose the correct alternative) [1 (a) 5 per cent (b) 6 per cent (c) 8 per cent (d) 10 per cent Q3 Land reforms primarily refer to: (Choose the correct alternative) (1 mail (a) fixing the maximum size of land which could be owned by individual. (b) change in the ownership of landholdings. (c) use of new technology in agriculture sector. (d) abolition of intermediaries.
- Q.4 In the first seven plans, foreign trade was characterised by what is commonly called an inward looking trade strategy. Technically, this strategy is called ______. (Fill up the blank with correct answer) (1 mass.
- Q.5 All the five year plans have given equal importance to the goals of growth, modernisation, self-reliance and True/False? Give reason. (1 mark)
- Q.6 Why was it necessary for a developing country like India to follow self-reliance as a planning objective? (3 marks) Q.7 Explain 'growth with equity' as a planning objective.
- Q.8 Explain briefly the common goals of five year plans in India. (3 marks)
- (4 marks)
- Q.9 Explain the need and types of land reforms/institutional reforms implemented in the agriculture sector in India. Q.10 "The progress of the Indian economy during the first seven plans was impressive indeed." (4 marks)

Do you agree with the above statement? Give valid reasons in support of your answer.

(6 marks)

Chapter 2	Indian Former (1997)
	Indian Economy (1950-1990)
(a) First Five Year plan (c) Third Five Year plan	o play an extensive role in promoting the industrial sector. The decision to st lines led to the policy of the state controlling the commanding heights (Choose the correct alternative) (I mark) (b) Second Five Year plan (d) Seventh Five Year plan given in Column II by matching them with respective terms in Column I:
Column I	/ Total 2014
A. Karve Committee, 1955	Column II
B. Industrial Policy Resolution, 1956	(i) To encourage farmers for adopting new HYV technology.
C. Import Substitution Policy	configuration of the state of t
D. Subsidies	the protect the domestic firm from foreign companie
	(iv) To regulate private sector through a system of licensing to promote regional equality.
Q.3 Match the following and choose the corn	rect alternative: (1 mark)
	(A) The money value of all the final goods and services produced within the economy in one year
2. Gross Domestic Product	(B) Adoption of new technology
3. Modernisation	(C) Chairperson of the planning commission
4. Self-sufficiency	(D) Avoiding imports of those goods which could be produced in India itself.
	(b) 1-C, 2-A, 3-B, 4-D (d) 1-C, 2-B, 3-A, 4-D re taken to abolish intermediaries and to make the tillers the owners of (Choose the correct alternative) (1 mark)
land. The idea behind this move was: (a) to reduce the concentration of land (b) that ownership of land would give in (c) fixing the maximum size of land which (d) to reduce the vast inequality in land	ownership in a few hands. Incentives to the tillers to invest in making improvements. Inch could be owned by an individual. Inch holding.
Q.5 Eliminating subsidies will violate the goal	of equity. True/False? Give reason. (1 mark)
0.7 Th	le in industrial development during the planning period? (3 marks) for continuing with fertiliser subsidies as it does not benefit the target ernment's finances, yet some experts believe that the government should
1V/1 1 1 1 1 C	f giving subsidies? (3 marks) ect domestic industry. Why did the policy makers adopt such policy of (4 marks)
Q.9 What is the role of small scale industries i	in industrial development of India? Why and how has the government (4 marks)
Q.10 How far the land reforms in the agricultur	re sector in India were successful in their implementation? Explain? (6 marks)

Maths

ASSIGNMENTS

(i). Order, Addition, Multiplication and transpose of matrices:

- 1. If a matrix has 5 elements, what are the possible orders it can have? [CBSE 2011]
- 2. Construct a 3 × 2 matrix whose elements are given by $a_{ij} = \frac{1}{2}i 3j$
- 3. If $A = \begin{bmatrix} 1 & 2 & 3 \\ 3 & 1 & 3 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 3 & 1 \\ 1 & 0 & 2 \end{bmatrix}$, then find A 2B.
- 4. If $A = \begin{bmatrix} 2 & 1 & 4 \\ 4 & 1 & 5 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & -1 \\ 2 & 2 \end{bmatrix}$, write the order of AB and BA.

LEVEL II

For the following matrices A and B, verify (AB)^T = B^TA^T.

where
$$A = \begin{bmatrix} 1 \\ -4 \\ 3 \end{bmatrix}$$
, $B = \begin{bmatrix} -1 & 2 & 1 \end{bmatrix}$

Give example of matrices A & B such that AB = O, but BA ≠ O, where O is a zero matrix and

- A. B are both non zero matrices.
 If B is skew symmetric matrix, write whether the matrix (ABA^T) is
- Symmetric or skew symmetric.

 4. If $A = \begin{bmatrix} 3 & 1 \\ 7 & 5 \end{bmatrix}$ and $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$, find a and b so that $A^2 + aI = bA$

LEVEL III

- 1. If $A = \begin{bmatrix} 2 & 0 & 1 \\ 2 & 1 & 3 \\ 1 & -1 & 0 \end{bmatrix}$, then find the value of A = 3A + 2I2. Express the matrix A as the sum of a symmetric and a skew symmetric matrix, where:

$$A = \begin{bmatrix} 3 & -2 & -4 \\ 3 & -2 & -5 \\ -1 & 1 & 2 \end{bmatrix}$$

3. If $A = \begin{bmatrix} a & b \\ 0 & 1 \end{bmatrix}$, prove that $A^n = \begin{bmatrix} a^n & \frac{b(a^n-1)}{a-1} \\ 0 & 1 \end{bmatrix}$, $n \in \mathbb{N}$

(ii) Cofactors & Adjoint of a matrix

- 1. Find the co-factor of a_{13} in $A = \begin{bmatrix} 2 & -3 & 5 \\ 6 & 0 & 4 \\ 1 & 5 & -7 \end{bmatrix}$ 2. Find the adjoint of the matrix $A = \begin{bmatrix} 2 & -3 & 5 \\ 4 & 0 & 4 \\ 1 & 3 & 3 \end{bmatrix}$

LEVEL II
Verify A(adjA) = (adjA) A = [A]I if
1.
$$A = \begin{bmatrix} 2 & 3 \\ -4 & -6 \end{bmatrix}$$

1.
$$A = \begin{bmatrix} 2 & 3 \\ -4 & -6 \end{bmatrix}$$

2.
$$A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 2 \\ 3 & 3 & 4 \end{bmatrix}$$

(iii)Inverse of a Matrix & Applications

LEVEL I

- 1. If $A = \begin{bmatrix} 2 & 3 \\ 5 & -2 \end{bmatrix}$, write A^{-1} in terms of A CBSE 2011
 2. If A is square matrix satisfying $A^2 = I$, then what is the inverse of A?
 3. For what value of k, the matrix $A = \begin{bmatrix} 2 k & 3 \\ -5 & 1 \end{bmatrix}$ is not invertible?

LEVEL II

- 1. If $A = \begin{bmatrix} 3 & -5 \\ -4 & 2 \end{bmatrix}$, show that $A^2 5A 141 = 0$. Hence find A^{-1}
- If A, B, C are three non zero square matrices of same order, find the condition on A such that $AB = AC \Rightarrow B = C$.

3. Find the number of all possible matrices A of order
$$3 \times 3$$
 with each entry 0 or 1 and for which $A\begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}$ has exactly two distinct solutions.

LEVEL III

- If $A = \begin{bmatrix} 2 & 3 & 1 \\ -3 & 2 & 1 \\ 5 & -4 & -2 \end{bmatrix}$, find A^{-1} and hence solve the following system of equations: 2x + 3y + 5z = 11, 3x + 2y + 4z = -5, x + y + 2z = -3
- Using matrices, solve the following system of equations:

a.
$$x + 2y - 3z = -4$$

 $2x + 3y + 2z = 2$
 $3x - 3y - 4z = 11$

[CBSE 2011]

b.
$$4x + 3y + 2z = 60$$

 $x + 2y + 3z = 45$
 $6x + 2y + 3z = 70$

[CBSE 2011]

- 3. Find the product AB, where $A = \begin{bmatrix} 1 & -1 & 0 \\ 2 & 3 & 4 \\ 0 & 1 & 2 \end{bmatrix}, B = \begin{bmatrix} 2 & 2 & -4 \\ -4 & 2 & -4 \\ 2 & -1 & 5 \end{bmatrix}$ and use it to solve the equations x y = 3, 2x + 3y + 4z = 17, y + 2z = 7
- 4. Using matrices, solve the following system of equations:

$$\frac{1}{x} \cdot \frac{1}{y} + \frac{1}{z} = 4$$

$$\frac{2}{x} + \frac{1}{y} - \frac{3}{z} = 0$$

$$\frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 2$$

5. Using elementary transformations, find the inverse of the matrix

$$\begin{bmatrix} 1 & 2 & -2 \\ -1 & 3 & 0 \\ 0 & -2 & 1 \end{bmatrix}$$

(iv)To Find The Difference Between |A|, |adjA|, |kA|

LEVEL I

- | cos15" sin15" | [CBSE 2011]
- 2. What is the value of [31], where I is identity matrix of order 3?
- 3. If A is non singular matrix of order 3 and |A| = 3, then find |2A|
- 4. For what valve of a, $\begin{bmatrix} 2a & -1 \\ -8 & 3 \end{bmatrix}$ is a singular matrix?

LEVEL II

- 1. If A is a square matrix of order 3 such that |adjA| = 64, find |A|
- 2. If A is a non singular matrix of order 3 and |A| = 7, then find |adjA|

4. Express
$$A = \begin{bmatrix} 3 & 2 & 3 \\ 4 & 5 & 3 \\ 2 & 4 & 5 \end{bmatrix}$$
 as the sum of a symmetric and a skew-symmetric matrix.

5. Let
$$A = \begin{bmatrix} -1 & -4 \\ 1 & 3 \end{bmatrix}$$
, prove by mathematical induction that : $A^n = \begin{bmatrix} 1-2n & -4n \\ n & 1+2n \end{bmatrix}$.

6. If
$$A = \begin{bmatrix} 3 & 1 \\ 7 & 5 \end{bmatrix}$$
, find x and y such that $A^2 + xI = yA$. Hence find A^{-1} .

7. Let
$$A = \begin{bmatrix} 0 & -\tan\frac{\alpha}{2} \\ \tan\frac{\alpha}{2} & 0 \end{bmatrix}$$
 and $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$. Prove that $I + A = (I - A)\begin{bmatrix} \cos\alpha & -\sin\alpha \\ \sin\alpha & \cos\alpha \end{bmatrix}$.

8. Solve the following system of equations: x + 2y + z = 7, x + 3z = 11, 2x - 3y = 1.

9. Find the product AB, where
$$A = \begin{bmatrix} -4 & 4 & 4 \\ -7 & 1 & 3 \\ 5 & -3 & -1 \end{bmatrix}$$
 and $B = \begin{bmatrix} 1 & -1 & 1 \\ 1 & -2 & -2 \\ 2 & 1 & 3 \end{bmatrix}$ and use it to solve

the equations x - y + z = 4, x - 2y - 2z = 9, 2x + y + 3z = 1.

10. Find the matrix P satisfying the matrix equation
$$\begin{bmatrix} 2 & 1 \\ 3 & 2 \end{bmatrix} P \begin{bmatrix} -3 & 2 \\ 5 & -3 \end{bmatrix} = \begin{bmatrix} 1 & 2 \\ 2 & -1 \end{bmatrix}$$
.

Lab Mannual work

Complete 5 Lab Manual practical's discussed in Class.

PHYSICAL EDUCATION

Make a project report on yoga

Information Technology

Revise Employability Skills - IV

Music Vocal

प्रश्न 1 निम्नलिखित पर संक्षिण्त टिप्पणी कीजिए।

अलकार कन खटका मीड आलाप तान।

प्रश्न 2 राग भैरव का संपूर्ण परिचय लिखिए।

प्रश्न 3 रागों के समय सिद्धांत के विषय में विस्तार से लिखिए।

प्रश्न 4 झप ताल रूपक ताल धमार ताल का परिचय 1 गुण 2 गुण 3गुण व चौगुन सहित लिखिए।

प्रश्न 5 अपनी पैक्टिकल फाइल पूरी करे।







SUMMER VACATION

Holiday Homework

Grade – XII (Humanities)







Summers again and its time for a break. Let us break the monotony of doing the home assignments by completing them under the guidance of their teachers and parents. The summer vacation begins from 27th May,2022 and school will reopen on 4th July,2022. Parents can download holidays homework from school's website i.e www.lotusvalley.edu.in or Ecare- App.

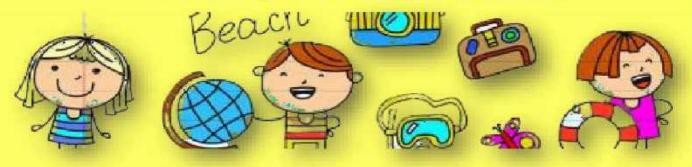
Here are few suggestions for parents:-

- Make sure that you are spending quality time with your wards. It is very important to keep their anxiety at minimum.
- Giving them small responsibilities in household chores will aid them to be independent.
- Teach them the importance of moral values in their life.

Also students can :-

- Read book, May it be fairy books, encyclopedia or comic books. Explore the imaginative world and go on a fantasy tour.
- Run, exercise, sweat! Channelize your energy and enjoy playing indoor games.
- Enhance communication skills by conversing with your friends and family in English.
- Explore the culture and heritage of the world by visiting heritage sites virtually.
 Download the app "Google Earth" and enjoy virtual tours around the Earth.

Wish you all a fun filled, safe and healthy holidays ahead!



Instructions for completing assignments-

- All the assignments are to be done in subject notebook with proper date and headings.
- The written part should be neatly presented in student's handwriting. Take the help of your parents if necessarily required.
- Remember a well presented 'Holiday Homework' fetches your marks and appreciation of your teachers and classmates. It carries 10 marks.
 - Revise all the work done in class till date.

ENGLISH

Speaking activity

- a) Drug Addiction and Youth
- b) Consumer Rights and Consumer Awareness
- c) Indian Democracy and Media Responsibility
- d) Donate for a noble cause
- e) All Enterance Tests should be abolished
- f) Rising Crime Rates-Value Based Education is the only answer

An I

Ele	ementary School Classroom in a Slum
1	Far from gusty waves these children's faces. Like rootless weeds, the hair torn round their pallor: The tall girl with her weighed-down head. The paperseeming boy, with rat eyes. Answer the following. (a) The children's faces were signs of their rootless condition. (True/False) (b) The tall girl bows her head with the burden of studies. (True/False) (c) From which type of landscape is the location described in these lines, far from? (d) in the boy's face have been compared to a rat.
2	Open-handed map Awarding the world its world. And yet, for these Children, these windows, not this map, their world, Where all their future's painted with a fog, A narrow street sealed in with a lead sky Far far from rivers, capes, and stars of words. Answer the following. (a) For the children in the classroom the only world that they know of is outside their classroom windows. (True/False) (b) The map in the classroom is pinned to the window of the classroom. (True/False) (c) The school is located in a street. (d) The future of the children is dull and has been compared to a
3	Surely, Shakespeare is wicked, the map a bad example, With ships and sun and love tempting them to steal— For lives that slyly turn in their cramped holes From fog to endless night? On their slag heap, these children Wear skins peeped through by bones and spectacles of steel With mended glass, like bottle bits on stones. Answer the following. (a) The map is a bad example for the children as it tempts hopes in the children. (True/False) (b) After seeing ships and sunshine, the children's minds are slyly turning in their cramped (c) The children's living quarters are described as heaps. (d) What metal is used to make the children's spectacle frames?
4	What changes does the poet hope for in the lives of slum children?
5	What message does Stephen Spender convey through his poem 'An Elementary School Classroom in a Slum'?
6	What is the theme of the poem?

7 How does the poet describe the classroom walls? What do they symbolize?

Or

What do you think is the colour of 'sour cream'? Why do you think the poet has used this expression to describe the classroom walls?

8 How is the world depicted on the classroom walls different from the world of slum children?

Or

The walls of the classroom are decorated with the pictures of 'Shakespeare', 'buildings with domes', 'World maps' and beautiful valleys. How do these contrast with the world of these children?

- What does the poet want for children of the slums? How can their lives be made to change?
- ¹⁰ What does the world of the slum children consist of?

Journey to the End of the Earth

What emotions did the author experience when she reached Antarctica at last?

1

- 2 What is the visual experience in Antarctica?
- 3 How has Antarctica sustained itself and managed to remain pristine?
- 4 What are the reasons for the success of the Students on Ice programme?
- 5 What is that beauty of balance that a trip to Antarctica unfolded to the author?
- 6 Why does the author conclude the chapter by saying that a lot can happen in a million years, but what a difference a day makes?
- 7 Why is it necessary to remain fully equipped while walking on ice?
- 8 What is the significance of the title 'Journey to the End of the Earth'?
- 9 What makes Antarctica an ideal subject of study?
- 10 The author states that her Antarctic experience was full of epiphanies, but the best occurred just short of the Antarctic Circle of 65–55 degrees south? Explain.

The Third Level

What does the narrator think of Grand Central? What does it symbolize?

2 What strange things did the narrator see when he reached the third level of Grand Central?

- 3 What did the narrator do to make sure that he was actually at the third level of Grand Central?
- 4 Why did the narrator turn towards the ticket windows? Why did he run back from there?

- 5 What did the narrator do the next day?
- 6 Why could Charley not be convinced by his distractions that the third level was only a wish fulfilment?
- 7 What happened to the narrator's psychiatrist friend Sam Weiner? What do you deduce from it?
- 8 What had Sam Weiner written on the paper in the first-day cover?
- 9 But that's the reason, he said, and my friends all agreed. Everything points to it, they claimed. My stamp collecting, for example; that's a 'temporary refuge from reality.' Well, maybe, but my grandfather didn't need any refuge from reality; things were pretty nice and peaceful in his day, from all I hear, and he started my collection. It's a nice collection too, blocks of four of practically every U.S. issue, first-day covers, and so on. President Roosevelt collected stamps too, you know. (a) Which place is referred to as the Third Level In the story of the similar name? (i) The Grand Central Station of London (ii) The Grand Airport of London (iii) The Grand Central Airport of New York (iv) The Grand Central Station of New York (b) Stamp collecting hobby is known by another name. What is it? (ii) Philately (ii) Calligraphy (iii) Landscaping (iv) Sculpting (c) What do the first-day covers refer to? (i) cover of the book (ii) a gift pack (iii) an envelope with a stamp on the first day of its release (iv) a hard-bound book (d) What does the phrase 'temporary refuge from reality ' mean in the story? (i) A temporary escape from reality (iii) A shelter home (iii) An escape for a long period (iv) A forever escape from reality
- 10 Now, I don't know why this should have happened to me. I'm just an ordinary guy named Charley, thirty-one years old, and I was wearing a tan gabardine suit and a straw hat with a fancy band; I passed a dozen men who looked just like me. And I wasn't trying to escape from anything; I just wanted to get home to Louisa, my wife.

I turned into Grand Central from Vanderbût Avenue, and went down the steps to the first level, where you take trains like the Twentieth Century. Then I walked down another flight to the second level, where the suburban trains leave from, ducked into an arched doorway heading for the subway — and got lost.

(a) What had happened to 'I'?	
(i) He was becoming forgetful.	
(ii) He wasn't feeling too well.	
(iii) He had forgotten his way.	
(IV) He had lost his office files.	
(b) Charley's age as mentioned in the extract	is
(i) early thirties	
(ii) mid-thirty	
(iii) late thirties	
(iv) late twenties	
(c) Where was Charley headed towards?	
(i) Mail	
(ii) Theatre	
(iii) Home	
(iv) Church	
(d) Charley passed by a	_ men who looked just like him.
(i) few	
(ii) many	
(iii) half-a-dozen	
(iv) dozen	

HISTORY

Make a Project report as per Topic Allotted

- a) Bricks Beads and Bones-Roll No 1 to 5
- b) Kings, Farmers and Towns-Roll No 6 to 10
- c) Kinship, Caste and Class-Roll No 11 to 15
- d) Thinkers, Beliefs and Buildings-Roll No 16 to 19

HistoryAssignment

- List the material used to make beads in the HarappanCivilization. Describe the process by which one kind of bead was made.
- 2. Describe how artifacts help in identifying social differences during the Harappanperiod.
- 3. Discuss how archaeologist reconstructs the past.
- 4. Discuss the functions that may have been performed by rulers in Harappan society.
- 5. How were the Harappan cities planned?
- 6. Describe the administrative system of Vijayanagara Kingdom.
- "Abdul Razzak an ambassador of Persia was impressed by the fortification of VijaynagarEmpire
 "Justify the statement.
- 8. Explain the reasons for the decline of Vijayanagara Empire.
- 9. How were the water requirements of Vijayanagara met?
- 10. What do you think was the significance of the rituals associated with the Mahanavamidibba?
- 11. Why was the south-Western part of Vijayanagara settlement designated as royal centre? Explain.
- 12. Who was Colin Mackenzie?
- 13. Explain the social and economic conditions of Vijayanagara.
- 14. Examine the role of Amaranayakas in Vijayanagara Empire?
- 15. Describe briefly the message and teachings of Baba Guru Nanak Ji.
- Discuss the ways in which the Alvars, Nayanars and Virashaivas expressed critiques of the caste system.
- 17. Who were lingayats?
- 18. What are the main objectives of bhakti movement?
- 19. Dicuss the main features of mosques
- 20. Write a note on Mirabai?
- 21. Explain the Popular Practices of Islamic Traditions.
- 22. Explain the Caste System as explained by AI-Biruni?
- 23. Write a note on the Kitab-Ul-Hind?
- 24. Name the work written by Bernier. What did he write about sati system?
- 25. Explain giving Examples how the account of foreign travellers help in reconstructing the history of India from the 10th to 17th century?

HINDI

क)वाचन गतिविधि:- (ASL) 2से 3 मिनट

- 1. मीडिया का सामाजिक उत्तरदायित्व (अनुक्रमांक 1 से 5 तक)
- 2. पशु ना बोलने से और मनुष्य बोलने से कष्ट उठाता है। (अनुक्रमांक 6 से 10तक)
- 3 सांस्कृतिक कार्यक्रम कितने सांस्कृतिक (अनुक्रमांक 11 से 15 तक)
- 4 मध्र वचन हैं औषधि, कट्क वचन है तीर (अनुक्रमांक 16 से 20 तक)
- *नोट उपरोक्त विषयों में से अपने अनुक्रमांक के अनुसार विषय लेकर स्पष्ट भाव भंगिमाओं सहित वाचन गतिविधि
- के लिए तैयार कीजिए
- *परियोजना कार्यः अपनी पाठ्यपुस्तक से संबंधित किसी एक कवि या लेखक का जीवन परिचय, साहित्यिक परिचय तथा रचनाओं पर विस्तार पूर्वक 15 से 16 पृष्ठ की परियोजना तैयार करें। (Project File)
- * कक्षा में करवाये गए संपूर्ण विषयवस्तु की दोहराई।

Assignment-I

- क) निम्नलिखित प्रश्नों के उत्तर 30 से 35 शब्दों में लिखिए:
- 1) कवि ने "कविता के बहाने "कविता को किसके सम्मान और क्यों माना है?
- 2) बच्चा सब घर एक कैसे कर देता है?
- 3) अपाहिज कैमरे के सामने क्यों रो पड़ता है?

- 4) अपाहिज से कौन सा प्रश्न बार-बार पूछा जाता है और कौन सा नहीं?
- (5) लेखिका ने भक्तिन के सेवा धर्म की तुलना किससे की है क्यों?
- (6) भक्तिन का स्वभाव कैसा बन गया था?
- 7) राजा साहब ने लुइन को क्यों सहारा दिया था ?उसकी दुर्गति का क्या कारण था?
- 8)"काले मेघा पानी दे" संस्मरण के आधार पर लेखक की देशभक्ति की भावना का चित्रण कीजिए।
- (ख) निम्नलिखित प्रश्नों का उत्तर 50 से 60 शब्दों में दीजिए:
- 1) रात्रिकी विभीषिका को कौन भंग करती थी और कैसे?
- 2)" दिन जल्दी जल्दी ढलता है" कविता का मूल भाव व प्रतिपाद्य स्पष्ट कीजिए।
- 3)" बात सीधी थी पर" कविता में निहित संदेश स्पष्ट कीजिए।
- 4) "कविता के बहाने" कविता का केंद्रीय भाव स्पष्ट कीजिए।
- 5) जब शारीरिक चुनौती का सामना कर रहे ट्यक्ति से उसके दुख के विषय में पूछा जाता है तो वह अपना दुख क्यों नहीं
- 6) मेंढक मंडली पर पानी डालने को लेंकर जीजी और लेखक के विचारों में क्या भिन्नता थी?
- 7) भयंकर बीमारी से ग्रस्त गांव का दृश्य हृद्य विदारक था कैसे? (पहलवान की ढोलक)
- 8) पर्दे पर किस की कीमत है? और क्यों? (कैमरे में बंद अपाहिज)
- 9) कैमरे में बंद अपाहिज' कविता में शारीरिक चुनौती खेलते अन्यथा सक्षम लोगों के प्रति काम के रवैये पर टिप्पणी कीजिए।
- 10)' बात को कील की तरह ठोकना' क्या है ऐसा क्यों किया जाता है ? (बात सीधी थी)

Assignment-II

- क) निम्नलिखित प्रश्नों के उत्तर एक दो पंक्ति में दीजिए:
- 1) गांव में पानी मांगने वाले बच्चों के कितने नाम थे?
- 2) मेंढक मंडली में कैसे कैसे बच्चे होते थे?
- 3) जेठ तथाआषाढ़ के मासमेवायुमंडल की दशा क्या होती थी?
- (4)" कौन कहता है इन्हें इंद्र की सेना?" यह कहकर लेखक किन पर ट्यंग्य करता है?
- (5) जीजी ने लेखक को त्याग का क्या अर्थ समझाया?
- 6)" देख तू तो अभी से पढ़ लिख गया है मैंने तो गांव के मदुरसे का मुंह भी नहीं देखा।" यह बात कौन कहता है और किससे?
- ख) निम्नलिखित प्रश्नों के उत्तर 30 से 35 शब्दों में दीजिए:
- 1) जीजी लेखक को बुआई संबंधी क्या तर्क देती है?

(2) पाठ में बताए गए अंधविश्वासों से क्या क्या हानियां हो सकती हैं?

- 3) सरकार द्वारा करोड़ों अरबों की योजनाएं बनाई जाती हैं लेकिन उनका लाभांश जनसामान्य तक क्यों नहीं पहुंच पाता? (काले सेघा पानी दे)
- 4) यदि आप लेखक की जगह होते तो इंद्रसेना पर पानी फेंकते या नहीं ?तर्क सहित अपना उत्तर दीजिए।
- 5) 'काले मेघा पानी दे' में लेखक के वैज्ञानिक तर्क और उसकी जीजी के पारंपरिक तर्क की समीक्षा कीजिए।
- ग) निम्नलिखित प्रश्नों के उत्तर 40 से 50 शब्दों में दीजिए:
- 1) काले मेघा पानी दे पाठ का प्रतिपाद्य बताते हुए समझाइए कि आप किसके विचारों से सहमत हैं? लेखक या जीजी।
- 2) 'काले मेघा पानी दे पाठ में लेखक ने समाज की एक ऐसी समस्या का वर्णन किया है जो आज भारत देश की भयकर समस्या है। वह कौन सी समस्या है ?उसके विषय में आप कितने चितित हैं? बताइए।
- 3) लेखक ने जिस त्याग भावना को चित्रित किया है उसे स्पष्ट कीजिए। (काले मेघा पानी दे)
- 4) इस पाठ में चित्रित लोक आस्था पर टिप्पणी कीजिए।
- 5) डंद्रसेना पर पानी फेंके जाने पर लेखक की मान्यता को जीजी कैसे छिन्न-भिन्न कर देती है? स्पष्ट कीजिए।

ECONOMICS

Self Assessment Test 1

National Income and Related Aggregates

Maximum Marks: 25

Time allowed: 1 hour Q.1 What is Macroeconomics?

(1 mark)

Q.2 Give any two examples of flow concept.

(1 mark)

- Q.3 According to a report forwarded by the Reserve Bank of India, there was a fall in rate of inflation as measured by According to a report forwarded by the According to the Acc statements represents the situation? (I mark)
 - (a) CPI has fallen

(b) CPI has risen at a rate lower than the preceding year

(c) CPI is constant

(d) None of the above

Q.4 Depreciation is also known as:

(1 mark)

(a) Capital loss

(b) Unforeseen obsolescence

(c) Capital allowance

(d) Both (a) and (b)

Q.5 Calculate "Intermediate Consumption" from the following data:

(3 marks)

S. No.	Items	
(ii)	Gross value of output	(₹ in erore)
(ii)	Net value added at factor cost (NVAfe)	300
(iii)	Subsidies	100
(iv)	Depreciation	15
TAY PERSON		30

- Q.6 Which of the following items will be included/not included while estimating Gross Domestic Product? Give valid reasons in support of your answer.
 - (a) Wages received by an Indian working in the British Embassy in India.
 - (b) Financial aids received from abroad after "Fani cyclone".
 - (c) Purchase of second hand machinery from abroad.

(3 marks)

Q.7 What is meant by the problem of double counting? Discuss briefly the two approaches to avoid this problem.

Q.8 (a) Distinguish between Real Gross Domestic Product and Nominal Gross Domestic Product. (3 marks)

(b) "Real Gross Domestic Product is a better indicator of economic growth than Nominal Gross Domestic

Do you agree with the given statement? Support your answer with a suitable numerical example. (4 marks)

Q.9 (a) The value of the nominal GNP of an economy was ₹2500 erore in a particular year. The value of GNP of that country during the same year, evaluated at the prices of base year, was ₹3000 crore. Calculate the value of the GNP deflator of the year in percentage terms. Has the price level risen between the base year and the

(b) Calculate compensation of employees from the following

i. Profits after tax	(3 marks)
interest	Amount (in 7 crore)
Gross Dames	20
iv. Goods and Services Tax Consumer:	45
vi. Ren. Ren.	200
vii. Corporate Tax	10
	50
	25
	5

Self Assessment Test 2

National Income and Related Aggregates

Time allowed: 1 hour

Maximum Marks: 25

Q.1 Define an intermediate good.

- Q.2 Wages received by an Indian working in the British Embassy in India will be included in Gross Domestic Product (GDP) of India. True/False? Give reason. (1 mark)
- Q.3 If the national income is ₹2,800 crore and NDPfc is ₹3,000 crore, which of the following option will be (1 mark)
 - (a) Factor income from abroad ₹500 and factor income to abroad is ₹200
 - (b) Factor income from abroad ₹400 and factor income to abroad is ₹600
 - (c) Factor income from abroad ₹600 and factor income to abroad is ₹400
 - (d) Factor income from abroad ₹700 and factor income to abroad is ₹700

Q.4 Which of the following would be the normal resident of India?

(1 mark)

- (a) An Indian working in an American embassy in India
- (b) An Indian working in Singapore branch of an Indian bank.
- (c) A team of German engineers in India on official job for six months.
- (d) Five Afghan student pursing law in India for the last four years
- Q.5 "Circular flow of income in a two sector economy is based on the axiom that one's expenditure is other's income." (3 marks) Do you agree with the given statement? Support your answer with valid reasons.
- Q.6 "India's GDP is expected to expand 7.5% in 2019-20: World Bank" The Economic Times.

Does the given statement mean that welfare of people of India increase at the same rate? Comment with reason.

(3 marks)

Q.7 Calculate "Depreciation" from the following data:

(3 marks)

S. No. Items		(7 in crore)
(i)	Gross value of output	300
	Net value added at factor cost (NVAfc)	100
(iiii)	Subsidies	15
(iv)	Intermediate Consumption	185

Q.8 Using numerical example, distinguish between Real National Income and Nominal National Income.

Explain any three precautions while calculating GDP by Value Added Method.

(6 marks)

Q.9 (a) Distinguish between net factor from abroad and net exports.

(2 marks)

(b) Calculate the value of "Mixed Income of Self-Employed" from the following data:

(4 marks)

S) Calculate the value of Prince Internet		(₹ in crore)
S. No.	Items	17,300
(i)	Compensation of Employees	1,200
(ii)	Interest	1,100
(iii)	Consumption of Fixed Capital	?
(iv)	Mixed Income of Self-Employed	750
(v)	Subsidies	27,500
(vi)	Gross Domestic Product at Market price	2,100
(vii)	Indirect Taxes	1,800
(viii)	Profits	2,000
(ix)	Rent	

Self Assessment Test 3

National Income and Related Aggregates

Time allowed: 1 hour

Maximum Marks: 25

Q.1 What are 'non-monetary exchanges'?

(1 mark

Q.2 Define Value Addition?

(I mark Q.2 Define value addition.

Q.3 When national income (product) of the current year is estimated on the basis of prices prevailing in the current year. When national income (product) of the current when it is estimated on the basis of prices prevailing in the base year, it is called (i) ______ whereas when it is estimated on the basis of prices prevailing in the blanks with the year, it is called (i) _____ whereas when it is estimated on the basis of prices prevailing in the blanks with the year, it is called (i) _____ whereas when it is estimated on the basis of prices prevailing in the blanks with the year, it is called (i) _____ whereas when it is estimated on the basis of prices prevailing in the blanks with the year, it is called (i) _____ whereas when it is estimated on the basis of prices prevailing in the blanks with the year. year, it is called (i)_______ (real national income/nominal national income) (Fill in the blanks with the control (1 mark)

(1 mark)

Q.4 If Real GDP = ₹240 crore and Price Index = 120, Nominal GDP = _____?

(3 marks)

Q.5 Calculate "Gross value of output" from the following data:

alculate Gross value of output		(7 in crore)
S. No.	Items	100
(i)	Net value added at factor cost (NVAfc)	30
(ii)	Depreciation	15
(iii)	Subsidies	185
(iv)	Intermediate Consumption	1 (8)

- Q.6 If in a locality, a new park is developed by the municipal corporation, it will have externalities, both positive and negative. State on example each of both types of externalities with reason.
- Q.7 Define the problem of double counting in the computation of national income. State any two approaches to correct the problem of double counting.
- Q.8 Explain any three precautions while calculating national income by Income Distributed Method. (6 marks)

OR

Will the following be included in domestic factor income of India? Give reasons in support of your answer. (6 marks)

- (i) Compensation of employees paid by a foreign company located in India.
- (ii) Compensation of employees paid by American embassy in India to resident Indians.
- (iii) Expenditure on engine oil by car service station.
- Q.9 Given the following data, find the values of 'Operating Surplus' and 'Gross Domestic Capital Formation':

		(₹ in crore)
S. No.	Items	2,000
ì	Government Final Consumption Expenditure	1,500
ii	Mixed Income of Self-Employed	12,000
iii	National Income	200
iv	Net Factor Income from Abroad	1
v	Operating Surplus	500
vi	Profits	6,000
vii	Private Final Consumption Expenditure	700
viii	Net Indirect Taxes	1,800
xi	Net Exports	600
x	Consumption of Fixed Capital	3
xi	Gross Domestic Capital Formation	5000
xii	Wages and Salaries	6,000

Self Assessment Test 1.1

independent India?

Self	Assessment rest 1.1		
1000	Chanter 1	Indian Economy on the Eve of Inde	ependence
			Maximum Marks : 25
Time	allowed: 1 hour	er 1946 e r	(1 mark)
Q.1	Arrange the following events (i) The opening of the Suez	of India before the independence in chronologi . Canal	ical order:
	(ii) Introduction of the rails		
	(iii) Second stage of demogra		
	(iv) Incorporation of the Tat	a Iron and Steel Company	
Q.2	India's demographic conditio	. C. I I sharacterised	by: boose the correct alternative) (1 mark)
	(X IV I I all affirmed his	sh mortality rates, high life expectancy and high	
	(a) High level of interacy, in	mortality rates, low life expectancy and Low le	evel of poverty.
	(b) Low level of literacy, low	mortality rates, high life expectancy and high	level of poverty.
	(c) Low level of literacy, low	h mortality rates, low life expectancy and high	level of poverty.
Q.3	is considered as	one of the most important contributions of the	Choose the correct alternative) (1 mark)
	(a) Construction of all-weat	her roads	
	(b) Introduction of the raily		
	(c) Introduction of electric		
	(d) The postal services		
Q.4	Under the British colonial ru	le, the agricultural production decreased.	True/False? Give reason. (1 mark)
Q.5	One of the significant drawbacks of the industrial policy pursued by the British colonial administration was		ritish colonial administration was the nfined only to the (1 mark)
	impacts of these policies?	economic policies pursued by the colonial g	
Q.7	What was the two-fold m	otive behind the systematic deindustrialisat	ion effected by the British in pre- (3 marks)

Q.8 Highlight the salient features of India's pre-independence occupational structure.

- (4 marks)
- Q.9 "Under the colonial regime, basic infrastructure such as railways, ports, water transport, posts and telegraph develop. However, the real motive behind infrastructure development was not to provide basic amenities to the people but to subserve various colonial interests."

What objectives did the British intend to achieve through their policies of infrastructure development in India?

(4 marks)

Q.10 "The social and economic challenges before India at the time of independence were enormous."

(6 marks)

Do you agree with the statement? Give reasons.

Self Assessment Test 1.2

Chapter 1: Indian Economy on the Eve of Independence

Time allowed: 1 hour

Maximum Marks : 25

Q.1 Write the correct sequence of alternatives given in Column II by matching them with respective terms in Column I:

Column I	Column II
A. India's first official census	(i) less than 2%
B. Introduction of the railways in India	(ii) about 7%
C. India's annual growth rate of aggregate real output during colonial perio	od (iii) 1850
D. Female literacy level at the time of independence	(iv) 1881

Q.2 The opening of the Suez Canal in 1869:

(Choose the correct alternative) (1 mark)

- (a) Raised the cost of transportation between Britain and India.
- (b) Intensified British control over India's foreign trade.
- (c) Reduced the cost of transportation and made access to the Indian market easier.
- (d) Both (b) and (c)
- Q.3 The country's growth rate of aggregate real output during the first half of the twentieth century was only (i) ______ and per capita real output was (ii) ______. (Fill up the blanks with correct answers) (1 mark)
- Q.4 Commercialisation of agriculture helped farmers in improving their economic condition.

True/False? Give reason, (1 mark)

- Q.5 Name some notable economists who estimated India's per capita income during the colonial period. (1 mark)
- Q.6 How did the restrictive policies of commodity production, trade and tariff pursued by the British colonial government affect the structure, composition and volume of foreign trade?

 (3 marks)
- Q.7 Although there was some evidence of a relatively higher yield of cash crops in certain areas of the country due to commercialisation of agriculture, but this could hardly help farmers in improving their economic condition. Explain why.
 (3 marks)
- Q.8 "The introduction of the railways in India was considered as one of the most important contributions of the British. However, the social benefits, which the Indian people gained owing to the introduction of the railways, were outweighed by the country's huge economic loss."

Do you agree with the above statement? Give valid reasons.

(4 marks)

Q.9 Give a quantitative appraisal of India's demographic profile during the colonial period.

(4 marks)

Q.10 Underscore some of India's most crucial economic challenges at the time of independence.

(6 marks)

Chapter 1: Indian Economy on the Eve of Independence

Time allowed: 1 hour

Column I

pursued by the colonial government

Maximum Marks : 25

incurred by an office set-up in British, expenses on war, and

Q.1 Write the correct sequence of alternatives given in Column II by matching them with respective terms in Column I:

A. Focus of the economic policies (i) To use a large export surplus to make payments for the expenses

Column II

	in India	import of invisible items.	
	 Motive of the British behind the systematic deindustrialisation in India 	raw materials for the upcoming modern industries in Britain.	
	C. Motive of the British behind infrastructural development in India	(iii) Protection and promotion of the economic interests of their home country then withe the development of the Indian economy.	
	D. Motive of the British behind monopoly control over India's exports and imports		
C-40771	were introduced by the colonial governm		
Q.3	During the second half of the 19th centu in (i), while jute mills do	nry, the cotton textile mills, mainly dominated by Indians, were located minated by the foreigners were mainly concentrated in (ii) (1 mark)	
	Which is regarded as the defining year to mark the demographic transition from its first to the second decisive stage?		
Q.5	During the British colonial rule, the various social development indicators were not quite encouraging. The overall literacy level was (i) Out of this, the female literacy level was at a negligible low of about (ii)		
Q.6	How did the Zamindari system of revenue settlement introduced by the colonial government cause immens misery and social tension among the cultivators? Why did the Zamindars adopt such an attitude? (3 marks		
	What was the two-fold motive behind the systematic deindustrialisation effected by the British in pre-independen [3 marks		
Q.8	How did the restrictive policies of commodity production, trade and tariff pursued by the colonial governmen adversely affect the structure, composition and volume of India's foreign trade? Explain. (4 marks		
Q.9	(4 mark		
Q.10	"During the British colonial rule, despite sector continued to experience stagnation became low."	e being the occupation of about 85% of India's population, the agriculture on and, not infrequently, unusual deterioration. Agricultural productivity	
	Do you agree with the above statement	Give valid reasons in support of your answer. (6 marks)	

Self Assessment Test 2.1

Chapter 2: Indian Economy (1950-1990)

Time allowed: 1 hour

Maximum Marks 12

Q.1 Write the correct sequence of alternatives given in Column II by matching them with respective terms in Column I

Co	lumn I	Column II
A.	Growth	(i) Adoption of new technology to increase the production of goods and services.
B.	Modernisation	(ii) Avoiding imports of those goods which could be produced in India itself
C.	Self-reliance	(iii) Every Indian should be able to meet his/her basic needs such as food, a decenhouse, education and health, and inequality in the distribution of wealth should be reduced.
D.	Equity	(iv) Increase in the country's capacity to produce the output of goods and service within the country.

- Q.2 The annual growth rate of the industrial sector during 1950-1990 was: (Choose the correct alternative) [1]
 - (a) 5 per cent

(b) 6 per cent

(c) 8 per cent

- (d) 10 per cent
- Q3 Land reforms primarily refer to:

(Choose the correct alternative) (1 mail

- (a) fixing the maximum size of land which could be owned by individual.
- (b) change in the ownership of landholdings.
- (c) use of new technology in agriculture sector.
- (d) abolition of intermediaries.
- Q.4 In the first seven plans, foreign trade was characterised by what is commonly called an inward looking trade strategy. Technically, this strategy is called ______. (Fill up the blank with correct answer) (1 mass)
- Q.5 All the five year plans have given equal importance to the goals of growth, modernisation, self-reliance and
- True/False? Give reason. (1 mass) Q.6 Why was it necessary for a developing country like India to follow self-reliance as a planning objective?
- Q.7 Explain 'growth with equity' as a planning objective.

(3 marks) (3 marks)

Q.8 Explain briefly the common goals of five year plans in India.

(4 marks)

(4 marks)

Q.9 Explain the need and types of land reforms/institutional reforms implemented in the agriculture sector in India.

Q.10 "The progress of the Indian economy during the first seven plans was impressive indeed." Do you agree with the above statement? Give valid reasons in support of your answer.

(6 marks)

Chapter 2: Indian Economy (1950-1990)

	The second secon	Indian Economy (1950-1990)
	(a) First Five Year plan (c) Third Five Year plan	Deplay an extensive role in promoting the industrial sector. The decision to st lines led to the policy of the state controlling the commanding heights (Choose the correct alternative) (1 mark) (b) Second Five Year plan (d) Seventh Five Year plan given in Column II by matching them with respective terms in Column I:
1	Column I	Column II (1 mark)
	A. Karve Committee, 1955	
	B. Industrial Policy Resolution, 1956	(i) To encourage farmers for adopting new HYV technology.
1	C. Import Substitution Policy	Carrie small-scale industries to promote available
	D. Subsidies	(iii) to protect the domestic firm from foreign competition
		(iv) To regulate private sector through a system of licensing to promote regional equality.
Q.	3 Match the following and choose the corn	rect alternative: (1 mark)
	-	(A) The money value of all the final goods and services produced within the economy in one year
1	2. Gross Domestic Product	(B) Adoption of new technology
	3. Modernisation	(C) Chairperson of the planning commission
	4. Self-sufficiency	(D) Avoiding imports of those goods which could be produced in India itself.
	(a) 1-D, 2-A, 3-B, 4-C	(b) 1-C, 2-A, 3-B, 4-D
	(c) 1-D, 2-A, 3-C, 4-B	(d) 1-C, 2-B, 3-A, 4-D
Q.4	land. The idea behind this move was: (a) to reduce the concentration of land of	
		centives to the tillers to invest in making improvements.
	(c) fixing the maximum size of land whi	
	(d) to reduce the vast inequality in land	T (F.L.) City mark)
Q.5	Eliminating subsidies will violate the goal	of equity.
Q.6 Q.7	Though it is argued that there is no case group and it is a huge burden on the gove continue with agricultural subsidies.	for continuing with fertiliser subsidies as it does not benefit the target rnment's finances, yet some experts believe that the government should
	What arguments do they give in favour of	giving subsidies!
	Explain how import substitution can prote	ect domestic industry. Why did the policy makers adopt (4 marks)
Q.9	What is the role of small scale industries i	n industrial development of India? Why and how has the government (4 marks)
Q.10	shielded small scale industries from the lar How far the land reforms in the agricultur	ge firms? re sector in India were successful in their implementation? Explain? (6 marks)

Maths

ASSIGNMENTS

(i). Order, Addition, Multiplication and transpose of matrices:

1. If a matrix has 5 elements, what are the possible orders it can have?

[CBSE 2011]

- 2. Construct a 3 × 2 matrix whose elements are given by $a_{ij} = \frac{1}{2}i 3j$
- 3. If $A = \begin{bmatrix} 1 & 2 & 3 \\ 3 & 1 & 3 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 3 & 1 \\ 1 & 0 & 2 \end{bmatrix}$, then find A 2B.
- 4. If $A = \begin{bmatrix} 2 & 1 & 4 \\ 4 & 1 & 5 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & -1 \\ 2 & 2 \\ 1 & 2 \end{bmatrix}$, write the order of AB and BA.

LEVEL II

For the following matrices A and B, verify (AB)^T = B^TA^T.

where
$$A = \begin{bmatrix} 1 \\ -4 \\ 3 \end{bmatrix}$$
, $B = \begin{bmatrix} -1 & 2 & 1 \end{bmatrix}$

Give example of matrices A & B such that AB = O, but BA ≠ O, where O is a zero matrix and

- A. B are both non zero matrices.
 If B is skew symmetric matrix, write whether the matrix (ABA^T) is Symmetric or skew symmetric.
- 4. If $A = \begin{bmatrix} 3 & 1 \\ 2 & 5 \end{bmatrix}$ and $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$, find a and b so that $A^2 + aI = bA$

- 1. If $A = \begin{bmatrix} 2 & 0 & 1 \\ 2 & 1 & 3 \\ 1 & -1 & 0 \end{bmatrix}$, then find the value of $A^2 3A + 2I$ 2. Express the matrix A as the sum of a symmetric and a skew symmetric matrix, where:

$$A = \begin{bmatrix} 3 & -2 & -4 \\ 3 & -2 & -5 \\ -1 & 1 & 2 \end{bmatrix}$$

3. If $A = \begin{bmatrix} a & b \\ 0 & 1 \end{bmatrix}$, prove that $A^n = \begin{bmatrix} a^n & \frac{b(a^n - 1)}{a-1} \\ 0 & 1 \end{bmatrix}$, $n \in \mathbb{N}$

(ii) Cofactors & Adjoint of a matrix

- 1. Find the co-factor of a_{12} in $A = \begin{bmatrix} 2 & -3 & 5 \\ 6 & 0 & 4 \\ 1 & 5 & -7 \end{bmatrix}$ 2. Find the adjoint of the matrix $A = \begin{bmatrix} 2 & -3 \\ 4 & 3 \end{bmatrix}$

Verify A(adjA) = (adjA) A = |A|1 if
1.
$$A = \begin{bmatrix} 2 & 3 \\ -4 & -6 \end{bmatrix}$$

1.
$$A = \begin{bmatrix} 2 & 3 \\ -4 & -6 \end{bmatrix}$$

2.
$$A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 2 \\ 3 & 3 & 4 \end{bmatrix}$$

(iii)Inverse of a Matrix & Applications

LEVEL I

- 1. If $A = \begin{bmatrix} 2 & 3 \\ 5 & -2 \end{bmatrix}$, write A^3 in terms of A CBSE 2011 2. If A is square matrix satisfying $A^2 = 1$, then what is the inverse of A? 3. For what value of k, the matrix $A = \begin{bmatrix} 2 k & 3 \\ -5 & 1 \end{bmatrix}$ is not invertible?

- 1. If $A = \begin{bmatrix} 3 & -5 \\ -4 & 2 \end{bmatrix}$, show that $A^2 5A 141 = 0$. Hence find A^{-1}
- If A, B, C are three non zero square matrices of same order, find the condition

on A such that
$$AB = AC \Rightarrow B = C$$
.

3. Find the number of all possible matrices A of order 3 × 3 with each entry 0 or 1 and for which
$$A\begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}$$
 has exactly two distinct solutions.

LEVEL III

- If $A = \begin{bmatrix} 2 & 3 & 1 \\ -3 & 2 & 1 \\ 5 & -4 & -2 \end{bmatrix}$, find A^{-1} and hence solve the following system of equations: 2x + 3y + 5z = 11, 3x + 2y + 4z = -5, x + y + 2z = -3
- Using matrices, solve the following system of equations:

a.
$$x + 2y - 3z = -4$$

 $2x + 3y + 2z = 2$
 $3x - 3y - 4z = 11$

[CBSE 2011]

b.
$$4x + 3y + 2z = 60$$

 $x + 2y + 3z = 45$
 $6x + 2y + 3z = 70$

[CBSE 2011]

- 3. Find the product AB, where $A = \begin{bmatrix} 1 & -1 & 0 \\ 2 & 3 & 4 \\ 0 & 1 & 2 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 2 & -4 \\ -4 & 2 & -4 \\ 2 & -1 & 5 \end{bmatrix}$ and use it to solve the equations x - y = 3, 2x + 3y + 4z = 17, y + 2z =
- 4. Using matrices, solve the following system of equations:

$$\frac{1}{x} - \frac{1}{y} + \frac{1}{z} = 4$$

$$\frac{2}{x} + \frac{1}{y} - \frac{3}{z} = 0$$

$$\frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 2$$

5. Using elementary transformations, find the inverse of the matrix

$$\begin{bmatrix} 1 & 2 & -2 \\ -1 & 3 & 0 \\ 0 & -2 & 1 \end{bmatrix}$$

(iv)To Find The Difference Between |A|, |adjA|, |kA|

LEVEL I

- | cos15" sin15" | [CBSE 2011] 1. Evaluate
- 2. What is the value of [31], where I is identity matrix of order 3?
- 3. If A is non singular matrix of order 3 and |A| = 3, then find |2A|
- 4. For what valve of a, $\begin{bmatrix} 2a & -1 \\ -8 & 3 \end{bmatrix}$ is a singular matrix?

LEVEL II

- 1. If A is a square matrix of order 3 such that |adjA| = 64, find |A|
- If A is a non singular matrix of order 3 and |A| = 7, then find |adjA|

4. Express
$$A = \begin{bmatrix} 3 & 2 & 3 \\ 4 & 5 & 3 \\ 2 & 4 & 5 \end{bmatrix}$$
 as the sum of a symmetric and a skew-symmetric matrix.

5. Let
$$A = \begin{bmatrix} -1 & -4 \\ 1 & 3 \end{bmatrix}$$
, prove by mathematical induction that : $A^n = \begin{bmatrix} 1-2n & -4n \\ n & 1+2n \end{bmatrix}$.

6. If
$$A = \begin{bmatrix} 3 & 1 \\ 7 & 5 \end{bmatrix}$$
, find x and y such that $A^2 + xI = yA$. Hence find A^{-1} .

7. Let
$$A = \begin{bmatrix} 0 & -\tan\frac{\alpha}{2} \\ \tan\frac{\alpha}{2} & 0 \end{bmatrix}$$
 and $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$. Prove that $I + A = (I - A)\begin{bmatrix} \cos\alpha & -\sin\alpha \\ \sin\alpha & \cos\alpha \end{bmatrix}$.

8. Solve the following system of equations:
$$x + 2y + z = 7$$
, $x + 3z = 11$, $2x - 3y = 1$.

9. Find the product AB, where
$$A = \begin{bmatrix} -4 & 4 & 4 \\ -7 & 1 & 3 \\ 5 & -3 & -1 \end{bmatrix}$$
 and $B = \begin{bmatrix} 1 & -1 & 1 \\ 1 & -2 & -2 \\ 2 & 1 & 3 \end{bmatrix}$ and use it to solve

the equations
$$x - y + z = 4$$
, $x - 2y - 2z = 9$, $2x + y + 3z = 1$.

10. Find the matrix P satisfying the matrix equation
$$\begin{bmatrix} 2 & 1 \\ 3 & 2 \end{bmatrix} P \begin{bmatrix} -3 & 2 \\ 5 & -3 \end{bmatrix} = \begin{bmatrix} 1 & 2 \\ 2 & -1 \end{bmatrix}$$
.

Lab Mannual work

Complete 5 Lab Manual practical's discussed in Class.

Political Science

A. Make Project file on the following topics.

1 Op	ne -
A 11-1	and Miller and Miller Committee Comm

- 1. United Nations and its Organizations
- India's Foreign Policy
- 3. Globalization
- 4. Challenges of Nation Building

Roll Numbers

1,5,9,13,17

2,6,10,14,18

3,7,11,15,19

4.8.12.16

PHYSICAL EDUCATION

Make a project report on yoga

Information Technology

Revise Employability Skills - IV

Music Vocal

प्रश्न 1निम्नलिखित पर संक्षिप्त टिप्पणी कीजिए।

अलंकार कन खटका मीड आलाप तान।

प्रश्न 2 राग भैरव का संपूर्ण परिचय लिखिए।

प्रश्न 3 रागों के समय सिद्धात के विषय में विस्तार से लिखिए।

प्रश्न 4 झप ताल रूपक ताल धमार ताल का परिचय 1 गुण 2 गुण अगुण व चौगुन सहित लिखिए।

प्रश्न 5 अपनी प्रैक्टिकल फाइल पूरी करें।