St. Vivekanand Lotus Valley Public school

SESSION 2023-24

CLASS – XII

HOLIDAY   HOMEWORK

AND

ASSIGNMENT

HOLIDAY HOMEWORK

Summer comes with a bagful of opportunities for Students to rest and enjoy. Each child excitedly waits for vacations. Summer breakis the most fun time of the year as this is the time we explore and learn new and exciting things.

It is crucial to plan for more fun, creative and recreational activitiesfor the vacations. It is highly significant as vacations help studentsacquire new skills and become more productive. Student can indulge in different activities that can groom their personality and boost up the confidence level.

Learning in a positive environment not only essential for the growthof knowledge but also growth in behavior of students.

By adapting good manners students can make a positive impression of their behavior on those around them. They are lifelong assets and should be practiced until they become habit. Thefour magical words children can make a difference in their behavior.

Please,Sorry,Thank you, Excuse me.

□ **Useful Guidance**

•Watch informative programs.

•Set limits to use smart phone and focus on learning by doing.

•Work on building up your strength with the help of innovative ideasto develop your mental skills.

•instill enough discipline in yourself to achieve success in life.

Healthy Habits

• Early to bed and early to   rise.

•T*ake good care of health and daily hygiene.*

•A*void junk food and prefer homely food.*

•Sta*y hale and hearty.*

•Keep your surroundings and environment clean.

Moral _Values_

- Pray daily.
- Make an exercise or yoga of your continuous habit.
- Touch your elders feet daily in the morning.
- Obey your elders.
- Show respect for juniors and seniors both.

Set _Priorities_

- Prepare a schedule.
- Plan at least 2 hours of study time to work on assignments.
- Manage your time.
- Do your homework systematically by yourself.

Holiday _Homework_ _with_ _pleasure_ _rather_ _than_ _pressure_

English :

1. Practice comprehension passages (any five) from BBC assignment.
2. Write NOTICES on the following occasions (three of each category)

   (a) Tours   (b) sports   (c) cultural/ extra curricular activities

   (d) lost and found   (e) Appeals

3. Write FORMAL LETTERS on the following topics (three of each category)

   (a) Complaint   (b) editor   (c) Job Application

4. Write ARTICLES on the following topics. (Word limit 150-200)

   (a) My vision of future India

   (b) Digital Education in India

   (c) Women safety in India

   (d) 50 years of Earth Day

(PowerPoint Presentation and project)

5. (A) TELANGANA (ART INTEGRATED PROJECT) (compulsory for all)
   Following points must be in project :
   ☆ Telangana (overview)
   ☆ Geographic features
   ☆ Culture, festivals
   ☆ Art and craft , cuisine , Traditional dress
   ☆ statistics, sex ratio, mortality ratio
   ☆ economic growth
   ☆ Defense sector in Telangana
   ☆ Famous personalities
   ☆ Health sector

NOTE : 1. PICTURES OF EVERY POINT MENTIONED ABOVE MUST IN PROJECT.
2. USE BLACK WATERPROOF INK
3. PROJECT SHOULD BE WRITTEN IN NEAT AND CLEAN HANDWRITING
4. TAKE CARE OF PARAGRAPHING, PUNCTUATION MARK AND SPELLINGS. PARAGRAPH SHOULD BE INDENTED.
5. USE NEATLY COVERED HARDBOARD FILE
6. PAGE SEQUENCE SHOULD BE STRICTLY FOLLOWED AS:

COVER PAGE, ACKNOWLEDGEMENT, INDEX , PROJECT CONTENT, BIBLIOGRAPHY ETC.
7. POWERPOINT PRESENTATION ON SAME TOPIC MUST BE PREPARED.

(LITERATURE)
6. learn all the chapters (flamingo & vistas) already done in class.
7. Prepare above said chapters' background, theme,message and title.
8. Thoroughly read all the chapters.

(QUESTIONS FOR PRACTICE) (Word limit 200-250 each answer)

(a)" It was their way of thinking our master for forty years of faithful service and of showing their respect for the country that was theirs no more." How did the people of Frenz's village show their respect for M.Hamel? What values did they hold and what values had they failed to live in their lives? Why is it important to conduct our lives with certain values?

(b)Mental suppression and apathy among the poverty stricken children deprives them of self confidence. Write a paragraph about different values can revive their confidence and help them rewrite their own destinies.

(c)What values of Douglas helped him overcome his fear of water ? Do you think the same values can help you manage your own fears, if any ,why/why not ?

(d)Through the depiction of the Tiger king's character and his ultimate destiny, Kalki hints at the neglect of duties by men of elevated status.Men with power must incorporate the values of dedicated work, selflessness and courage. Discuss how such values can utter the destinies of individuals and states. Cite the examples from history where such values served humanity at large.

Hindi :

Assignment

प्रश्न(1) बाजार जाते समय आपको किन किन बातों का ध्यान रखना चाहिए? बाजार दर्शन पाठ के आधार पर उत्तर दीजिए|

प्रश्न(2) सभी को अपने नाम का विरोधाभास लेकर जीना पड़ता है भक्तिन पाठ में ऐसा क्यों कहा गया है ?

प्रश्न(3) पुत्र की चाह में परिवार के लोग ही कन्या को जन्म देने वाली मां के दुश्मन हो जाते हैं | इस प्रवृत्ति पर भक्तिन पाठ के आधार पर टिप्पणी कीजिए|

प्रश्न(4) क्या आधुनिक युग में भी बेटी पैदा करने पर स्त्री को उपेक्षा ही सहनी पड़ती है ? इस विषय पर अपने विचार प्रकट कीजिए।

प्रश्न(5) महादेवी वर्मा तथा भक्तिन के संबंधों की तुलना किससे की गई है और क्यों? पाठ के आधार पर उत्तर दीजिए ।

प्रश्न(6) स्त्री के विवाह संबंधी मानव अधिकार को कुचलने की परंपरा का पालन भक्तिन पाठ में किस प्रकार हुआ है ?स्पष्ट कीजिए।

प्रश्न(7) ऊंचे बाजार का आमंत्रण आग्रह से किस प्रकार भिन्न है ? स्पष्ट कीजिए

प्रश्न(8) कैमरे में बंद अपाहिज कविता के आधार पर सिद्ध कीजिए कि कविता संवेदनहीन सूचना तंत्र पर एक व्यंग्य है।

प्रश्न (9) एक अपाहिज व्यक्ति का साक्षात्कार लेना किस उद्देश्य को दर्शाता है ? पाठ के आधार पर स्पष्ट कीजिए।

प्रश्न(10) तकनीकी विकास के दौर में भी भारत की अर्थव्यवस्था कृषि पर निर्भर है। कृषि समाज में चैत्र, वैशाख सभी माह बहुत महत्वपूर्ण हैं पर आषाढ़ का चढ़ना उनमें उल्लास क्यों भर देता है?

प्रश्न (11) आपकी राय में अपंगों के प्रति कैसा व्यवहार होना चाहिए? कविता के आधार पर लिखिए ।

प्रश्न (12)' काले मेघा पानी दे' संस्मरण के लेखक ने लोक प्रचलित विश्वासों को अंधविश्वास कहकर उनके निराकरण पर बल दिया है, इस कथन की विवेचना कीजिए ।

प्रश्न (13) दिनोंदिन गहराते पानी के संकट से निपटने के लिए क्या आज का युवा वर्ग कोई सामूहिक आंदोलन प्रारंभ कर सकता है, इस पर अपने विचार लिखिए।

प्रश्न (14) पहले स्वयं दो तब देवता तुम्हें चौगुना,आठ गुना करके लौटाएंगे_वाक्य भारतीय संस्कृति की किस विशेषता का परिचायक है? पाठ के आधार पर स्पष्ट कीजिए ।

प्रश्न (15) "मीडिया की विश्वसनीयता पर लगते प्रश्न चिह्न " विषय पर लगभग 100-150 शब्दों में रचनात्मक लेख लिखिए ।

प्रश्न (16) "असफलताएं जीवन प्रक्रिया का स्वभाविक अंग" विषय पर लगभग 150 शब्दों में रचनात्मक लेख लिखिए ।

प्रश्न(17) समाचार लेखन के छ: ककारों के विषय में विस्तारपूर्वक बताइए।

प्रश्न(18) उल्टा पिरामिड शैली में समाचार लेखन की प्रक्रिया पर प्रकाश डालिए

प्रश्न(19) बीट रिपोर्टिंग के लिए पत्रकार को क्या तैयारी करनी पड़ती है?

प्रश्न(20) निम्नलिखित प्रश्नों के उत्तर जनसंचार और पत्रकारिता के आधार पर दीजिए_
    (क) समाचार पत्रों के लिए सूचनाएं प्राप्त करने के स्रोत कौन-कौन से हैं?
    (ख) उल्टा पिरामिड शैली क्या है?
    (ग) स्टिंग ऑपरेशन किसे कहते हैं?
    (घ) विज्ञान के क्षेत्र में काम कर रही भारत की 5 संस्थाओं के नाम लिखिए ।
    (ड़) डेडलाइन किसे कहते हैं?

Activities for holidays homework

(1) पहलवान की ढोलक पाठ में मलेरिया और हैज़े से पीड़ित गांव की दयनीय दशा को चित्रित किया गया है| आप भी कोविड-19 महामारी को चित्रित करते हुए देश और दुनिया की दयनीय स्थिति पर पीपीटी तैयार कीजिए |

(2) शिरीष के फूल पाठ के आधार पर 8 से 10 विभिन्न प्रकार के वृक्षों के चित्र तथा उनकी संक्षिप्त जानकारी एकत्रित कर A4 शीट पर लिखिए।

(3) तुलसीदास द्वारा रचित कविता कवितावली तथा लक्ष्मण मूर्छा और राम का विलाप में दोहा, चौपाई, सोरठा, कवित्त,सवैया_ये 5 छंद प्रयुक्त हुए हैं। इन छंदों के विषय में जानकारी प्राप्त कर ए_4 शीट पर लिखें

(4) बादल और वर्षा का सुंदर चित्रण करने वाली कविता A4 शीट पर लिखें

अथवा

शोषक वर्ग के अत्याचार और शोषित वर्ग की दयनीय दशा का वर्णन करने वाली कविता A4 शीट पर लिखें|

(5) हिंदी भाषा में अनेक कवियों ने सूर्योदय का अति सुंदर वर्णन किया है। अपनी पाठ्य पुस्तक में संकलित कविता उषा से मिलती-जुलती किसी अन्य कवि की कविता जिसमें सूर्योदय का बखूबी वर्णन किया गया हो, उसे A4 शीट पर लिखिए।

Syllabus for July periodic test

(आरोह) गद्य भाग- काले मेघा पानी दे, पहलवान की ढोलक
(आरोह) पद्य भाग_पतंग, कविता के बहाने, बात सीधी थी पर |
(वितान) सिल्वर वैडिंग
अपठित पद्यांश

Physics :

Do NCERT exercises of first three chapter.
1. Columb law and electric field
2. Electric flux and capacitance
3. Current electricity

Chemistry :
1. Write and revise NCERT exempler and conceptual questions of
   Ch - coordination compounds
   Ch - biolmolecules
   Ch - haloalkanes and haloarenes
   Ch - d and f block
2. Make periodic table of d and f block elements in your notebook.

3. Write and revise all the naming reactions ,conversions and distinctions of haloalkanes and haloarenes.
4. Prepare practical file and project alloted.

Maths :

Revise chapters
Matrices, Determinants, Matrices continued
Do exercises of NCERT BOOK Of each chapter till indefinite integration.

Assignment

Type I - Multiple Choice Questions :

1. Suppose P and Q are two different matrices of order $3 \times n$ and $n \times p$, then the order of the matrix $P \times Q$ is

   (a) $3 \times p$ (b) $p \times 3$ (c) $n \times n$ (d) 3×3

   [CBSE Sample Paper 2020]

2. If A is matrix of order $m \times n$ and B is a matrix such that AB' and $B'A$ are both defined, then order of matrix B is

   (a) $m \times m$ (b) nm (c) $n \times m$ (d) $m \times n$

3. Total number of possible matrices of order 2×3 with each entry 0 or 1 is _____.

   (a) 6   (b) 36   (c) 32   (d) 64

4. If $A = [a_{ij}]_{2 \times 2}$, where $a_{ij} = i + j$, then A is equal to :

   (a) $\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ (b) $\begin{bmatrix} 2 & 3 \\ 3 & 4 \end{bmatrix}$ (c) $\begin{bmatrix} 1 & 1 \\ 2 & 2 \end{bmatrix}$ (d) $\begin{bmatrix} 1 & 2 \\ 1 & 2 \end{bmatrix}$

5. A matrix $A = [a_{ij}]_{3 \times 3}$ is defined by $a_{ij} = \begin{cases} 2i + 3j, & i < j \\ 5 & , i = j \\ 3i - 2j, & i > j \end{cases}$. The number of elements in A, which are more than 5, is

   (a) 3   (b) 4   (c) 5   (d) 6   [CBSE 2022]

6. If $\begin{bmatrix} 2x + y & 4x \\ 5x - 7 & 4x \end{bmatrix} = \begin{bmatrix} 7 & 7y - 13 \\ y & x + 6 \end{bmatrix}$, then values of x and y are

   (a) $x = 3, y = 1$ (b) $x = 2, y = 3$ (c) $x = 2, y = 6$ (d) $x = 3, y = 3$

7. If $\begin{bmatrix} 3c + 6 & a - d \\ a + d & 2 - 3b \end{bmatrix} = \begin{bmatrix} 12 & 2 \\ -8 & -4 \end{bmatrix}$ are equal, then the value of $ab - cd$ is

   (a) 4   (b) 16   (c) -4 (d) -16 [CBSE 2022]

8. If $A = \begin{bmatrix} 0 & 2 \\ 3 & -4 \end{bmatrix}$ and $kA = \begin{bmatrix} 0 & 3a \\ 2b & 24 \end{bmatrix}$, then the values of k, a and b respectively are :

   (a) $-6, -12, -18$ (b) $-6, -4, -9$ (c) $-6, 4, 9$ (d) $-6, 12, 18$

9. If A and B are square matrix of same order then $(A + B)(A - B)$ is equal to

   (a) $A^2 - B^2$ (b) $A^2 - BA - AB - B^2$

   (c) $A^2 - B^2 + BA - AB$ (d) $A^2 - BA + B^2 + AB$ [NCERT EXEMPLAR]

10. If $A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ a & b & -1 \end{bmatrix}$, then A^2 is equal to

   (a) a null matrix   (b) a unit matrix   (c) $-A$ (d) A

11. If $A = \begin{bmatrix} i & 0 \\ 0 & i \end{bmatrix}$, $n \in N$, then A^{4n} is equal to

(a) $\begin{bmatrix} 0 & i \\ i & 0 \end{bmatrix}$

(b) $\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$

(c) $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$

(d) $\begin{bmatrix} 0 & i \\ 0 & 0 \end{bmatrix}$

12. If $A = [a_{ij}]$ is a square matrix of order 2 such that $a_{ij} = \begin{cases} 1, & \text{when } i \neq j \\ 0, & \text{when } i = j \end{cases}$, then A^2 is:

(a) $\begin{bmatrix} 1 & 0 \\ 1 & 0 \end{bmatrix}$

(b) $\begin{bmatrix} 1 & 1 \\ 0 & 0 \end{bmatrix}$

(c) $\begin{bmatrix} 1 & 1 \\ 1 & 0 \end{bmatrix}$

(d) $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$

[CBSE Sample Paper 2023]

13. A matrix $A = [a_{ij}]_{3 \times 3}$ is defined by $a_{ij} = \begin{cases} 2\hat{i} + 3\hat{j}, & \hat{i} < \hat{j} \\ 5, & \hat{i} < \hat{j} \\ 3\hat{i} - 2\hat{j}, & \hat{i} > \hat{j} \end{cases}$. The number of elements in A which are

more than 5 is

(a) 3

(b) 4

(c) 5

(d) 6   [CBSE 2023]

14. If A and B are two matrices such that $AB = A$ and $BA = B$, then B^2 is equal to

(a) B

(b) A

(c) 1

(d) 0

15. If A is a square matrix such that $A^2 = A$, then $(I + A)^2 - 3A$ is equal to

(a) I

(b) 2A

(c) 3I

(d) A

16. Given that $A = \begin{bmatrix} \alpha & \beta \\ \gamma & -\alpha \end{bmatrix}$ and $A^2 = 3I$, then :

(a) $1 + \alpha^2 + \beta\gamma = 0$

(b) $1 - \alpha^2 - \beta\gamma = 0$

(c) $3 - \alpha^2 - \beta\gamma = 0$

(d) $3 + \alpha^2 + \beta\gamma = 0$

[CBSE Sample Paper 2021]

17. If $A = [a_{ij}]$ is a skew-symmetric matrix of order n, then

(a) $a_{ij} = \dfrac{1}{a_{ji}}$ for all i, j

(b) $a_{ij} \neq 0$ for all i, j

(c) $a_{ij} = 0$, where $i = j$

(d) $a_{ij} \neq 0$, where $i = j$ [CBSE Sample Paper 2021]

18. If A and B are symmetric matrices of same order than $AB - BA$ is :

(a) symmetric

(b) skew symmetric

(c) diagonal matrix

(d) none of these

19. Sum of two skew symmetric matrices is always

(a) symmetric

(b) skew symmetric

(c) diagonal

(d) none of these

20. If a matrix A is both symmetric and skew-symmetric, then A is necessarily a

(a) diagonal matrix

(b) zero square matrix

(c) square matrix

(d) identity matrix
[CBSE 2014]

21. If $A = \begin{bmatrix} 5 & x \\ y & 0 \end{bmatrix}$ and $A = A'$, then

(a) $x = 0, y = 5$

(b) $x = 5, y = 0$

(c) $x = y$

(d) none of these

22. If A is 3×4 matrix and B is a matrix such that $A'B$ and BA' are both defined, then B is of the type

(a) 3×4

(b) 3×3

(c) 4×4

(d) 4×3

23. For two matrices $P = \begin{bmatrix} 3 & 4 \\ -1 & 2 \\ 0 & 1 \end{bmatrix}$ and $Q' = \begin{bmatrix} -1 & 2 & 1 \\ 1 & 2 & 3 \end{bmatrix}$, $P - Q$ is

(a) $\begin{bmatrix} 2 & 3 \\ -3 & 0 \\ 0 & -3 \end{bmatrix}$
(b) $\begin{bmatrix} 4 & 3 \\ -3 & 0 \\ -1 & -2 \end{bmatrix}$
(c) $\begin{bmatrix} 4 & 3 \\ 0 & -3 \\ -1 & -2 \end{bmatrix}$
(d) $\begin{bmatrix} 2 & 3 \\ 0 & -3 \\ 0 & -3 \end{bmatrix}$

[CBSE 2021]

24. If $A = \begin{bmatrix} \cos\theta & -\sin\theta \\ \sin\theta & \cos\theta \end{bmatrix}$, then $A' + A = I_2$, if

(a) $\theta = n\pi, n \in Z$
(b) $\theta = (2n+1)\dfrac{\pi}{2}, n \in Z$
(c) $\theta = 2n\pi \pm \dfrac{\pi}{3}, n \in Z$
(d) none of these

Type II - Very Short Answers Questions :

25. If A and B are matrices of order $3 \times n$ and $m \times 5$ respectively, then find the order of matrix $5A - 3B$, given that it is defined. [CBSE Sample Paper 2021]

26. If A is a matrix of order 3×2 and B is a matrix of order 2×4, then write the order of matrices AB and BA.

27. Two matrices X and Y are of order $2 \times n$ and $2 \times p$ respectively. If $n = p$, then find the order of the matrix $7X - 5Y$.

28. If A is matrix of order $m \times n$ and B is a matrix such that AB' and $B'A$ are both defined, then find the order of matrix B.

29. If A is a matrix of order 2×3 and B is a matrix of order 3×5, what is the order of matrix $(AB)'$.

30. Write the element a_{23} of a 3×3 matrix $A = (a_{ij})$ whose elements a_{ij} are given by $a_{ij} = \dfrac{|i - j|}{2}$.

[CBSE 2015]

31. If $A = \begin{bmatrix} 2 & 4 \\ 3 & 2 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 3 \\ -2 & 5 \end{bmatrix}$, then find $A - B$. [CBSE 2008C]

32. If $\begin{bmatrix} 2x+y & 4x \\ 5x-7 & 4x \end{bmatrix} = \begin{bmatrix} 7 & 7y-13 \\ y & x+6 \end{bmatrix}$, then find the values of x and y.

33. If $\begin{bmatrix} x+y & 7 \\ 9 & x-y \end{bmatrix} = \begin{bmatrix} 2 & 7 \\ 9 & 4 \end{bmatrix}$, then find xy. [CBSE 2020]

34. If $\begin{bmatrix} x-y & 2y \\ 2y+z & x+y \end{bmatrix} = \begin{bmatrix} 1 & 4 \\ 9 & 5 \end{bmatrix}$, then find the value of $(x + y + z)$. [CBSE 2013C]

35. If $\begin{bmatrix} x-y & z \\ 2x-y & w \end{bmatrix} = \begin{bmatrix} -1 & 4 \\ 0 & 5 \end{bmatrix}$, find the value of $x + y$. [CBSE 2014]

36. If $\begin{bmatrix} 2x+1 & 2y \\ 0 & y^2+1 \end{bmatrix} = \begin{bmatrix} x+3 & 10 \\ 0 & 26 \end{bmatrix}$, write the value of $x + y$. [CBSE 2012C]

37. Solve the matrix equation : $2\begin{bmatrix} 1 & 3 \\ 0 & x \end{bmatrix} + \begin{bmatrix} y & 0 \\ 1 & 2 \end{bmatrix} = \begin{bmatrix} 5 & 6 \\ 1 & 8 \end{bmatrix}$. [CBSE 2012, 08]

38. Find the value of $y - x$ from the following equation : $2\begin{bmatrix} x & 5 \\ 7 & y-3 \end{bmatrix} + \begin{bmatrix} 3 & -4 \\ 1 & 2 \end{bmatrix} = \begin{bmatrix} 7 & 6 \\ 15 & 14 \end{bmatrix}$

39. If $A = \begin{bmatrix} \cos\alpha & -\sin\alpha \\ \sin\alpha & \cos\alpha \end{bmatrix}$, then for what value of α is A an identity matrix ? [CBSE 2016]

40. If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} -3 & -2 \\ 1 & 5 \end{bmatrix}$, find a matrix C such that $A + B - C = O$.

41. If $\begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix}\begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 5 \\ 4 \end{bmatrix}$, then find the value of y. [CBSE Sample Paper 2016]

42. Let $A = \begin{bmatrix} 1 & 3 \\ 2 & 1 \end{bmatrix}$ and $B = \begin{bmatrix} 4 \\ -1 \end{bmatrix}$. Is AB defined. If yes, find it.

43. If matrix $A = \begin{bmatrix} 1 & 1 \\ -1 & 1 \end{bmatrix}$ and $A^2 = kA$, then find the value of k. [CBSE 2019]

44. Solve the following matrix equation for x : $\begin{bmatrix} x & 1 \end{bmatrix}\begin{bmatrix} 1 & 0 \\ -2 & 0 \end{bmatrix} = O$. [CBSE 2014]

45. If $A = \begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix}$, find A^3.

46. If $\begin{bmatrix} 2 & 3 \\ 5 & 7 \end{bmatrix}\begin{bmatrix} 1 & -3 \\ -2 & 4 \end{bmatrix} = \begin{bmatrix} -4 & 6 \\ -9 & x \end{bmatrix}$, find the value of x. [CBSE 2012]

47. If $A = \begin{bmatrix} 3 & 5 \\ 7 & 9 \end{bmatrix}$ is written as A = P + Q, where P is a symmetric matrix and Q is a skew-symmetric matrix, then write the matrix P. [CBSE 2016]

48. What is the difference between symmetric and skew-symmetric matrix.

Type III - Assertion-Reasoning Questions :

In the following questions a Statement of Assertion (A) is followed by a Statement of Reason (R). Choose the correct option from the following options :

(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).

(b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).

(c) Assertion (A) is true but Reason (R) is false.

(d) Assertion (A) is false but Reason (R) is true.

49. Assertion : Matrix $\begin{bmatrix} 6 & 3 & 2 \end{bmatrix}$ is a row matrix

Reason : A matrix of order $1 \times n$, $n > 1$ is called a row matrix.

50. Assertion : $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ is an identity matrix.

Reason : A matrix $A = [a_{ij}]$ is an identity matrix if $a_{ij} = \begin{cases} 0, & \text{if } i = j \\ 1, & \text{if } i \neq j \end{cases}$.

51. Assertion : A matrix $\begin{bmatrix} 1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 3 \end{bmatrix}$ is a scalar matrix.

Reason : Every scalar matrix is a diagonal matrix.

52. Assertion : If $\begin{bmatrix} 2 & x \\ -4 & 5 \end{bmatrix} = \begin{bmatrix} 2 & 4 \\ y & 5 \end{bmatrix}$, then $x = 4$ and $y = -4$.

Reason : Two matrices are equal if they are of the same order.

53. Assertion : If matrix A is of order 2×3 and matrix B is of order 3×2, then their product is a matrix of order 2×2.

Reason : Two matrices can be multiplied if number of columns in pre-factor is equal to the number of rows in post-factor.

54. Assertion : If $A = \begin{bmatrix} 2 & 0 \\ 0 & 3 \end{bmatrix}$ and $B = \begin{bmatrix} 5 & 0 \\ 0 & 0 \end{bmatrix}$, then $(A + B)^2 = A^2 + 2AB + B^2$.

Reason : For the given matrices A and B, $AB = BA$

55. Assertion : Transpose of matrix $A = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$ is a row matrix

Reason : Transpose of a matrix of order $n \times m$, $n \ne m$ is a matrix of the same order

56. Assertion : $\begin{bmatrix} -1 & 2 & -3 \\ 2 & 6 & 7 \\ -3 & 7 & -2 \end{bmatrix}$ is a symmetric matrix.

Reason : Matrix A is said to be symmetric if $A' = A$

57. Assertion : Matrix $A = \begin{bmatrix} 0 & -4 & 3 \\ 4 & 7 & -1 \\ -3 & 1 & 0 \end{bmatrix}$ is skew symmetric.

Reason : A matrix A is skew-symmetric if $A' = -A$

58. Assertion : A square matrix can be expressed as sum of a symmetric and a skew-symmetric matrix.

Reason : The sum of two symmetric matrices is symmetric and the sum of two skew-symmetric matrices is skew-symmetric.

59. Assertion : If $A = \begin{bmatrix} 2 & 5 \\ 1 & 3 \end{bmatrix}$, then $A \cdot \begin{bmatrix} 3 & -5 \\ -1 & 2 \end{bmatrix} = I = \begin{bmatrix} 3 & -5 \\ -1 & 2 \end{bmatrix} \cdot A$

Reason : For any matrix A, we have $AI = IA = A$.

Biology :

1. Prepare a PPT and project report on one of the following topic:

S.No	Topic	Roll No.
i)	Human Genome Project	(1,10)
ii)	Cancer	(2,11)
iii)	Human reproduction	(3, 12)
iv)	Molecular basis of inheritance and variation	(4, 13)
v)	In vitro fertilization	(5, 14)
iv)	Genetic disorders	(6, 15)
vii)	Biotechnology Principles and Processes	(7, 16)
viii)	Microbes in human welfare	(8, 17)
ix)	Transcription and translation	(9, 18)

2. Write down the assigned practicals in your biology practical file.
3. Revise all the Chapters deeply.
4. Solve the given assignment in your biology notebook

Assignment – 1

(iii) Which of the following is not a STD?
  (a) AIDS
  (b) Syphilis
  (c) Trichomoniasis
  (d) Encephalitis
  (3×1 = 3)

2. In the following questions a statement of assertion followed by a statement of reason is given.
Choose the correct answer out of the following choices.
  (a) Assertion and reason both are correct statements and reason is correct explanation for assertion.
  (b) Assertion and reason both are correct statements but reason is not correct explanation for assertion.
  (c) Assertion is correct statement but reason is wrong statement.
  (d) Assertion is wrong statement but reason is correct statement.

  (i) Assertion : Health and education of young people is an important attribute to the reproductive health of the society.
     Reason   : Reproductive health programmes of young men primarily encourages responsible sexual behaviour.
  (ii) Assertion : Sterilisation methods stops the production of testosterone.
     Reason   : It is a permanent method of birth control.
  (iii) Assertion : Oral birth control pills contain hormonal formulations.
     Reason   : Birth control pills do not have any side effects.

3. What is lactational amenorrhea?   (1)
4. Expand ZIFT.   (1)
5. Why do some women use "Saheli" pills?   (2)
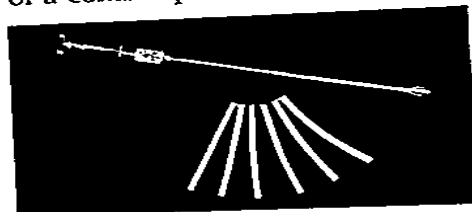6. How do oral contraceptive pills act in a human female? Explain.   (2)
7. List any two types of IUDs that are available for human females and state their mode of action.(2)
8. Mention any four characteristics that an ideal contraceptive should have.   (2)
9. Describe the three ways in which fertilisation of human ovum by a sperm can be prevented. (3)
10. Given below is the picture of a contraceptive device. Observe it and answer the questions that follow. (3×1 = 3)

(i) What is the device used for?

(ii) Why do intensely lactating mothers not generally conceive?

(iii) Our government has intentionally imposed strict conditions for MTP in our country. Justify giving a reason.

11. (i) Name any two copper releasing IUDs.

(ii) Explain how do they act as effective contraceptives in human females. [CBSE (AI) 2014] (3)

12. Enumerate and describe any five reasons for introducing sex education to school-going children. (5)

1. Choose and write the correct option in the following questions. (3×1 = 3)

(i) Match the IUD of Column I with suitable example in Column II.

Column I	Column II
A. Non-medicated	1. Lippes loop
B. Copper releasing	2. Multiload-375
C. Hormone releasing	3. LNG-20

Choose the correct option.

(a) A-3, B-2, C-1
(b) A-1, B-2, C-3
(c) A-1, B-3, C-2
(d) A-2, B-1, C-3

(ii) GIFT is recommended for females who

(a) cannot produce eggs
(b) cannot retain foetus in uterus
(c) cannot provide suitable environment for fertilisation
(d) cannot allow sperms to enter cervix

Assignment – 2

1. Choose and write the correct option in the following questions. (3×1 = 3)

(i) AIDS is caused by HIV. Among the following, which one is not a mode of transmission of HIV?

(a) Transfusion of contaminated blood
(b) Sharing the infected needles
(c) Shaking hands with infected persons
(d) Sexual contact with infected persons

(ii) The target cell of HIV is

(a) B-cell
(b) Macrophase
(c) Erythrocyte
(d) helpher-T-cell

(iii) The interferons are

(a) antiviral proteins
(b) antibacterial protein
(c) antifungal proteins
(d) all of these

2. In the following questions a statement of assertion followed by a statement of reason is given. Choose the correct answer out of the following choices. (3×1 = 3)

(a) Assertion and reason both are correct statements and reason is correct explanation for assertion.

(b) Assertion and reason both are correct statements but reason is not correct explanation for assertion.

(c) Assertion is correct statement but reason is wrong statement.

(d) Assertion is wrong statement but reason is correct statement.

(i) Assertion : Acquired immunity supplements the protection provided by innate immunity.

Reason : An individual is born with innate immunity.

(ii) Assertion : T-helper cells are activated on stimulation by contact with antigens.

Reason : T-cells produce specialised proteins called antibodies.

(iii) Assertion : Allergens cause excessive immune response in human body.

Reason : Allergy involves IgA antibodies and interferons.

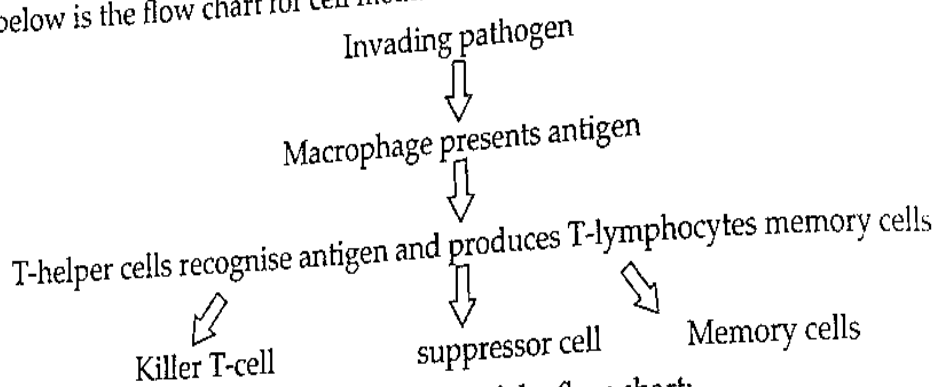3. Name an allergen and write the response of the human body when exposed to it. (1)

4. What does LSD stand for? What is its source? (1)

5. Why is an antibody molecule represented as H_2L_2? (2)

6. The following table shows certain diseases, their causative organisms and symptoms. Fill the gaps.

S. No.	Name of the Disease	Causative organism	Symptoms
(i)	Typhoid	—	High fever, weakness, headache, stomach pain, constipation.
(ii)	Pneumonia	Streptococcus pneumonia	Nasal congestion and discharge, sorethroat, cough, headache.
(iii)		Rhino viruses	
(iv)	Filariasis	—	Inflammation in lower limbs.

(2)

7. How does cell-mediated immune system work when our body is infected? (2)

8. (a) Why do the symptoms of malaria not appear immediately after the entry of sporozoites into the human body when bitten by female Anopheles? Explain. (2)

   (b) Give the scientific name of the malarial parasite that causes malignant malaria in humans. (2)

9. List the specific symptoms of typhoid. Name its causative agent. (3)

10. Given below is the flow chart for cell mediated immune response.
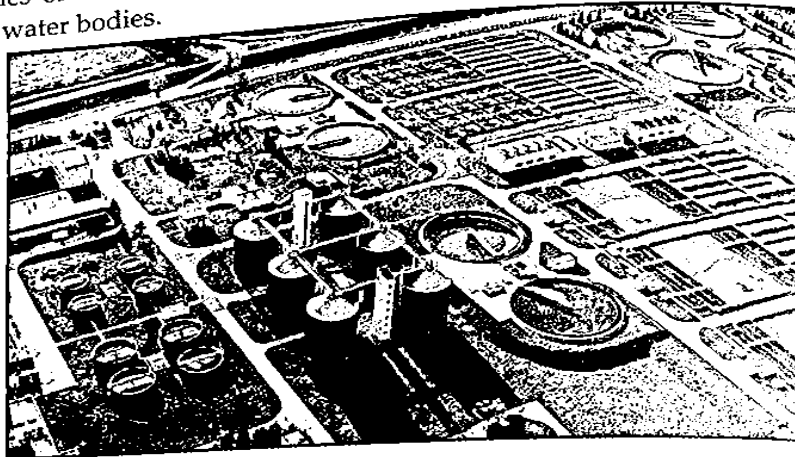
Invading pathogen
⇩
Macrophage presents antigen
⇩
T-helper cells recognise antigen and produces T-lymphocytes memory cells

Killer T-cell   suppressor cell   Memory cells

Answer the following questions on the basis of the flow chart:

(i) Name any two types of cells which act as 'Cellular Barriers' to provide Innate Immunity in humans.

(ii) Thymus of a new born child was degenerating right from birth due to a genetic disorder. Predict its two impacts on the health of the child.

(iii) How do cytokine barriers provide innate immunity in humans? (3)

11. Explain metastasis. Why is it fatal?

12. Explain the different measures for control and prevention of drug/alcohol abuse among adolescents. (5)

Assignment – 3

1. **Choose and write the correct option in the following questions.** (3×1 = 3)
   (i) Mother and father of a person with 'O' blood group have 'A' and 'B' blood group, respectively. What would be the genotype of both mother and father?
   (a) Mother is homozygous for 'A' blood group and father is heterozygous for 'B'
   (b) Mother is heterozygous for 'A' blood group and father is homozygous for 'B'
   (c) Both mother and father are heterozygous for 'A' and 'B' blood group, respectively
   (d) Both mother and father are homozygous for 'A' and 'B' blood group, respectively

   (ii) The genotype of a plant showing the dominant phenotype can be determined by
   (a) monohybrid cross   (b) dihybrid cross
   (c) test cross   (d) pedigree analysis

   (iii) A human female with Turner's syndrome has
   (a) karyotype 45+XO   (b) an additional X chromosome
   (c) trisomy of X chromosome (d) male characteristics

2. **In the following questions a statement of assertion followed by a statement of reason is given. Choose the correct answer out of the following choices.** (3×1 = 3)
   (a) Assertion and reason both are correct statements and reason is correct explanation for assertion.
   (b) Assertion and reason both are correct statements but reason is not correct explanation for assertion.
   (c) Assertion is correct statement but reason is wrong statement
   (d) Assertion is wrong statement but reason is correct statement.

   (i) **Assertion :** Human skin colour show polygenic inheritance.
   Reason : Each allele of human skin colour gane shows participation and the phenotype is controlled by many genes.

   (ii) **Assertion :** The genes on a chromosome are physically linked.
   Reason : The number of linkage groups in an organism is equal to their haploid number of chromosomes.

   (iii) **Assertion :** Phenylalanine reductase is needed to breakdown the amino acid phenylalanine.
   Reason : Phenylketonuria is an inborn error of metabolism.

3. Write the chromosomal defect in individuals affected with Klinefelter's syndrome. (1)

4. What is the karyotype of Turner's syndrome? (1)

5. A pea plant homozygous for axial flowers and constricted pods is crossed with the pea plant homozygous for terminal flowers having inflated pods. Work out the cross up to F_1 generation. Show the genotypes of the parents and phenotype and genotype of the progeny. (2)

6. Colour blindness in humans is a sex-linked trait. Explain with the help of a cross. (2)

7. How can you say that the sex of a child is determined by the father and not by the mother? (2)

8. Why is haemophilia generally observed in men? Under what condition can women also suffer from this disorder? (2)

9. Given below is representation of amino acid composition of the relevant translated portion of β chain of hemoglobin, related to shape of human red cells. (3×1 = 3)

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11. Large quantities of waste water are generated everyday. It is treated in sewage plants before releasing into water bodies.

(i) What is BOD?

(ii) What does it mean if a water sample has more BOD?

(iii) Distinguish between the roles of flocs and anaerobic sludge digesters in sewage treatment

12. (i) What are biopesticides? Give any two examples of their application.

(ii) What are mycorrhiza? How does it act as a biofertiliser?

Accountancy :

Assignment

CHAPTER 1 – ACCOUNTING FOR PARTNERSHIP FIRMS- FUNDAMENTAL

CHAPTER 2 – CHANGE IN PROFIT RATIO AMONG EXISTING PARTNERS

CHAPTER 3 – ADMISSION OF NEW PARTNER

1. What is meant by Partnership?

2. What do you understand by 'partners', 'firm' and 'firm's name'?

3. What is the status of partnership from an accounting viewpoint?

4. What is the minimum number of partners allowed in a firm?

5. What is the maximum numbers of partners allowed in a firm?

6. What is meant by partnership Deed?

7. In the absence of a partnership deed, how are mutual relations of partners governed?

8. Give any two reasons in favour of having a partnership deed?

9. State the provisions of ' Indian Partnership Act 1932 relating to sharing of profits in the absence of any provision in the partnership deed?

10. Give two circumstances in which the fixed capitals of partners may change.

<div align="center">OR</div>

State the conditions under which the capital balances may change under the system of a Fixed Capital Account.

11. How would you calculate interest on drawings of equal amounts drawn on the Ist day of every month?

12. How would you calculate interest on drawings of equal amounts drawn on the last day of every month.

13. How would you calculate interest on drawings of equal amounts drawn in the middle of every month?

14. How would you calculate interest on drawings on unequal amounts drawn at unequal intervals?

15. Alka, Barkha and Charu are partners in a firm having no partnership agreement .Alka, Barkha and charu contributed Rs. 2,00,000, Rs. 3,00,000 and Rs.1,00,000 respectively. Alka and Barkha desire that the profits should be divided in the ratio of capital contribution Charu does not agree to this. How will you settle the dispute.

16. List two items that may appear on the credit side of a Partner's fixed capital amount?

17. List any four items which can be credited to the capital amount of a partner when the capital account is fluctuating.

18. A and B are partners in a firm without a partnership deed. A is active partner and claims a salary of Rs. 18,000 per month. State with reasons whether the claim is valid or not.

19. Suresh and Ramesh are partners in a firm with a capital of Rs. 3,00,000 and rs.4,00,000 res. They do not have Partnership Deed. Ramesh wants to share the profits in the ration of capitals . State with reasons whether the claims is valid.

20. Ram and Mohan are partners in a firm without any partnership Deed. Their capitals are Ram Rs. 8,00,000 and Mohan Rs. 6,00,000. Ram is an active partner and looks after the business. Ram wants that profit should be shared in proportion of capital. State with reasons whether his claim is valid or not.

21. Pappu and Munna are partners in affirm sharing profits in the ratio 3 : 2. The partnership deed provided that Pappu was to be paid salary of rs. 2,500 per month and Munna was to get a commission of Rs. 10,000 per year. Interest on capital was to be allowed @ 5% p.a and interest on drawings was to be charged @ 6% p.a interest on Pappu's drawings was Rs. 1,250 and on Munna 's drawings Rs. 425 capital of the partners were rs. 2,00,000 and Rs. 1,50,000 res., and were fixed . the firm earned a profit of Rs. 90,575 for the year ended 31st March ,2004 prepare Profit and loss Appropriation Account of the firm.

22. Ram and Manohar are partners in a firm sharing profits and losses in the ratio 7:3 . According to the partnership deed, Ram was to be paid salary of Rs. 5,000 per month and Manohar was to get a bonus of Rs. 40,000 per annum. Interest on capital was to allowed @ 10 10 % p.a and interest on drawings was to be charged @ 87 % p.a Interest on Ram's drawings was Rs. 3,000 and on Manohar's drawings Rs. 2,000 . Their fixed capitals were Rs. 4,00,000 and Rs. 1,50,000 resp. The firm earned a profit of Rs.2,50,000 for the year ended 31 st March , 2004. Prepare Profit and loss Appropriation Account of Ram and

Manohar.

23. A and B Start business on July 1,2004, B makes an additional contribution of Rs.1,00,000 which is treated as a loan. The profit for the period ended March 2005 was Rs. 85,000 before charging any interest. All the partners were entitledto a salary of Rs. 3,000 each, per quarter. The partners had drawn Rs. 24,000 each on Ist January 2005. Prepare the profit and loss Appropriation Account forthe period ended March 31, 2005.

24. Geeta and Meeta were partners in a firm sharing profit in the ratio 5: 3. Theirfixed capital were Rs. 3,00,000 and Rs. 2,00,000 respectively. The partnership Deed provided that

   i) Interest on capitals should be allowed @ 12%.

   ii) Geeta should allowed a salary of Rs. 40,000.

   iii) A commission of 5% of t he net profit should be allowed to Meeta.

   iv) The net profit for the year ended 31.3.2001 was Rs. 2,00,000Prepare Profit and Loss Appropriation Account.

25. Malti, Paro and Arti are partners in a firm having fixed capitals of Rs. 80,000,Rs.40,000 and Rs. 50,000 respectively sharing profits as 7: 6: 4 . The rate of interest on capital was agreed at 10% p.a but was wrongly credited to them as 12% p.a .Give the necessary adjustment entry to adjust the balances of PartnersCapital Accounts.

26. On March 31, 2005 after the close of books of accounts, the capital accountsof A, B and C stood at Rs. 24,000 , Rs. 20,000 respectively. The profit for the yearRs.36,000 was distributed. Subsequently. It was discovered that interest on Capital 5%p.a had been omitted . The profit sharing ratio was 2:2:1 pass andadjustment Journal

27. Ram and Shyam were partners ina firm sharing profits in the ratio of 3:5 . their Fixed capitals were Ram Rs. 5,00,000 and Shyam Rs. 9,00,000 .
After the accounts of the year had been closed, it was found that interest on capital at 10% p.a as provided in the partnership agreement has not been credited to the Capital Accounts of the partners. Pass a necessary entry to rectify the error.

28. Jain ang Gupta were partners in affirm sharing profits in 3:2 ratio. Their fixed capitals were Jain Rs. 1,00,000 abd Gupta Rs. 1,50,000. After the accounts of the year had been closed it was discovered that interest on capital at 10% p.a as provided in the partnership agreement has not been credited to the capital accounts of the partners before distribution of Profits. Pass the necessary JournalEntry to rectify the error.

29. A , B and C are partners in a firm on 01.04.2005 their capitals stood at Rs.50,000, Rs. 25,000 and Rs. 25,000 respectively. As per the provisions of the partnership deed

   (i) C was entitled for a salary of Rs. 5,000 per month.

   (ii)Partners were entitled to Interest on capital at 5% p.a.

   (iii) Profits were to be shared in the ratio of Partners Capital.

   The net profit for the year 2005-06 of Rs. 33,000 was distributed equally with providing

for the above terms.Pass an adjustment entry in Journal torectify the above error.

30. Ravi and Mohan were partners in a firm sharing profits in the ratio 7:5. Theirrespective fixed capitals were Ravi Rs. 10,00,000 and Mohan Rs. 7,00,000. The partnership deed provided for the following

(i) Interest on capital @ 12%p.a

(ii) Ravi's Salary Ra. 6,000 per month and Mohan's Salary Rs. 60,000 per year.Theprofit for the year ended 31.3.2007 was Rs. 5,04,000 which was distributed equally, without providing for the above. Pass an adjustmententry.

31. Kumar and Raja were partners in a firm sharing profits in the ration of 7:3 .Their fixed capitals were Kumar Rs. 9,00,000 and Raja Rs. 4,00,000. The partnership deed provided the following but the profit for the year was distributed without providing for:

(i) Interest on Capital @ 9% p.a

(ii) Kumar's Salary Rs. 50,000 per year and raja 's Salary Rs. 3,000 per month.Theprofit for the year ended 31.3.2007 was Rs. 2,78,000.Pass the adjustment entry.

32. A, B and C are partners in a firm sharing profits in the ratio of 2:2:1 .C is guaranteed a minimum amount of Rs. 10,000 as his share of profit every year.Deficiency, if any on that account shall be borne by B. The profits for the two years ended 31 st March 2003 and 31st March 2004 were Rs. 50,000 and Rs. 60,000 respectively. Prepare Profit and Loss appropriation account for two years.

33. The partners of a firm distributed the profits for the year ended 31 st March2003 Rs. 90,000 in the ratio of 3:2:1 without providing for the following adjustment.

(i) A and C were entitled to a salary of Rs. 1,500 per ,month.

(ii)B was entitled to a commission of Rs. 4,500

(iii) B and C had guaranteed a minimum profit of Rs. 35,000 per annum to A.

(iv) Profits were to be shared in the ratio of 3:3:2

Pass the necessary Journal entry for the above adjustment in the books for the firm.

A , B and C were partners in a firm sharing profits in the ratio of 2:2:1/. C guaranteed to be given a profit of s. 50,000 per year. Deficiency , if any on that account shall be borne by A and B in the ratio of 3:2,. The net Profit of the firm for the year ended 31 st March , 2004 was Rs. 2,00,000.Prepare Profit and Loss Appropriation Account A, B and C.

34. A , B and C entered into a partnership on October 1,2004 to share profits andlosses in the ratio of 3:2:1. However personally guaranteed that C's share ofprofitafter charging interest on Capitals @ 5%p.a would not be less than Rs.30,000 in any year. The capital contribution were A Rs. 3lakh, B Rs. 2lakhs and C Rs. 1lakhs.The profits for the period ended March 31,2005 were rs. 1,20,000.Show the distribution of profits.

35. A,B and C were partners in a firm sharing profits in 2:3:5 ratio. A was guaranteed a minimum profit of rs. 1,00,000 . Any deficiency on this account wasto be borne by C. The net profit of the firm for the year ended 31 st March ,2006was Rs.4,50,000 . Prepare Profit and Loss Appropriation Account of A, B and C forthe year ended 31 st

36. Ajit and Baljit were sharing p[rofit in the ratio of 3:2 . they decided to admitChaman into the partnership for1/6 th share of the future profits. Goodwill

37. Valued at 4 times the average super profits of the firm was Rs. 18,000. The firm had assets worth Rs. 15lakhs and liabilaites Rs. 12lakhs.The normal earning capacity of such firms is expected to be 10% p.a . find the Avergae Profits/ActualProfits earned by the firm during the last 4 years.

   i. X,Y and z were sharing profits and losses in the artio 5:3:2. They decided to share future profits and losses in the ratio of 2:3:5 with effect from ist April 2007.They decided to record the effect of the following withoput affecting their book values:

   (i) Profit and loss account Ra. 24,000

   (ii)Advertisement Suspense Account Rs. 12,000Pass the necessary adjusting entry.

38. Suman and Poonam were partners ina firm sharing profits in 3:2 ratio. From1 st March 2006 they decided to change it to 3:1. For the purpose the goodwill of the firm was valued at Rs. 1,20,000

39. A, b And C were partners ina firm sharing profits in the ratio of 5:3:2 . On 1 st January ,2005 they decided to share the profits equally. It was also agreed that the change carried out tetropectively for the last 4 years. The profits for the last 5years were as follow.

Year	Ended Profit(Rs.)
2000	50,000
2001	40,000
2002	10,000 (loss)
2003	60,000
2004	1,00,000

   Pass the necessary adjustment entry.

40. A and B were partners in the ratio of 3: 2. They admit C for ¼ th share in the profits of the firm. It was decided that C will bring Rs. 97,200 as goodwill and Rs. 3,16,000 as capital. Pass necessary journal entries and also find out the new profit-sharing ratio under both the cases:

   (i) When the goodwill is retained in the firm.

   (ii) When goodwill is withdrawn by old partners.

41. A and B were partners in the ratio of 3 : 2. C was admitted for $\frac{3}{7}$th profits which he takes $\frac{2}{7}$th from A and $\frac{1}{7}$th from B. The total goodwill of the firm was Rs. 25,480. C brings 36,400 as his share of capital and also brings his share of goodwill in cash. Pass necessary Journal entries also find out the new profit sharing ratio.

42. Leela and Meena were partners in the ratio of 3 : 2. Nupur was admitted for ¼ th share which she acquires $\frac{2}{3}$rd from Leela and $\frac{1}{3}$rd from Meena. Rs. 48,750 was brought as capital and Rs. 19,500 for goodwill. 25% of the goodwill was withdrawn by Leela and Meena.

Pass necessary journal entries and also find out the new profit sharing ratio.

43. Sonu and Monu were partners in the ratio of 5: 3. They admit Ramik for ¼ th share which he will acquire equally from Sonu and Monu. Ramik brings Rs. 64,000 as goodwill and Rs. 2,88,000 as Capital.

Pass necessary journal entries and also find out the new profit sharing ratio.

44. (a) A and B are partners in a firm sharing profits in the ratio of 3 : 2. C is admitted as a partner. A and B fsurrender 1/2 of their respective share in favour of C. Find the new profit sharing ratio and also the sacrificing ratio.

(b) C is to bring his share of premium for goodwill in cash. The goodwill of the firm is estimated at Rs. 56,000. Pass necessary entries for the record of goodwill in the above case.

45. P, Q and R were partners in the ratio of 4 : 3 : 2. O was admitted for 2/9 th shares. He brings Rs. 58,500 as capital and Rs. 26,000 as his share of Goodwill. The new profit sharing ratio was 3 : 2 : 2 : 2 respectively. Pass necessary journal entries and also find out the sacrificing ratio..

46. Aarti and Deepti were partners in the ratio of 2 : 1. Shalini and Mohini were admitted. After the admission of Shalini and Mohini their ratio becomes as 4 : 2: 3 : 1. Goodwill of the firm was Rs. 91,000. Mohini brings her share of goodwill and Rs. 26,000 as capital. Shalini brings Rs. 22,750 cash and Rs. 18,200 with stock as her capital. She also brings her required amount of goodwill. Pass necessary journal entries.

47. A and B were partners in the ratio of 3 : 1. C was admitted for $\frac{1}{5}$ th share. C pays Rs. 68,000 as his share of Premium privately. After the admission of C they admit D into the firm for $\frac{1}{6}$th share. He brings Rs. 27,200 as his share of goodwill. Pass necessary journal entries.

48. A and B were partners in the ratio of 3 : 2. They admit C for 3/13 share. New profit Ratio after C's admission will be 5 : 5 : 3. C brought some assets in the form of his capital and for the share of his goodwill. Following were the assets :

Assets	Rs.
Stock	3,17,200
Building	3,12,000
Plant and Machinery	1,82,000

At the time of admission of C goodwill of the firm was valued at Rs. 16,22,400. Pass necessary journal entries. Also prepare C's Capital Account.

49. A and B were partners in a firm sharing profits in the ratio of 3 : 1. On 1-3-2006, they admitted C as a new partner for ¼ th share in the profits. The new profit sharing ratio will be 2 : 1 : 1. C brought in Rs. 1,25,000 as his capital and Rs. 31,250 for his share of goodwill (Premium) in cash. On C's admission goodwill account appeared in the books of the firm at Rs. 18,750.

Pass necessary Journal entries in the books of the firm on C's admission.

50. Raju and Suresh were partners in the ratio of 4 : 1. They admit Ram for $\frac{1}{6}$ th share. Ram bring Rs. 2,70,000 as his share of goodwill. New ratio of Raju, Suresh and Ram was 3 : 2: 1 respectively. Pass necessary journal entries.

51. L and M were partners in a firm sharing profits in the ratio of 3 : 1. They admitted N as a new partner on 1-3-2006 for 1/3rd share. It was decided that L, M and N will share future profits equally. N brought Rs. 70,000 in cash and machinery worth Rs. 98,000 for his share of profits as premium for goodwill. Showing your calculations clearly pass necessary journal entries in the books of the firm.

52. X and Y were partners in the ratio of 4 : 1. C was admitted for 1/3rd share. He brings Rs. 30,000 as his share of goodwill. Future profit of X and Y will be decided equally. Journalise these transactions. Also find out the new profit sharing ratio.

53. Pooja and Rachita were partners with capitals of Rs. 50,000 and 75,000 respectively. Their profit sharing ratio was 4 : 3, Kavita was admitted. The new ratio was decided as 3 : 2 : 2 respectively. Kavita brings Rs. 15,000 as his share of Premium. Pass necessary journal entries If Capital Accounts of the partners are fixed. Also find out the sacrificing ratio.

54. A and B were partners in the ratio of 7 : 5. C was admitted for $\frac{1}{5}$ th share. The new ratio was decided as 13 : 7 : 4 respectively. C brings Rs. 6,00,000 as his share of capital but was not able to bring any cash for his share of goodwill/premium. The firm's goodwill at the time of C's admission was valued at Rs. 5,76,000.

55. Mona and Lata were partners in the ratio of 3: 2. Reema was admitted as a new partner and it was decided that they will share future profits and losses equally. Reema brings Rs. 90,000 as her capital and goodwill of the firm at the time of admission was Rs. 108000. Pass necessary journal entries and also find out the sacrificing ratio under the following cases:

   (a) When goodwill appears in the books Rs. 90,000.

   (b) When goodwill appears in the books Rs. 1,80,000.

   (c) When no goodwill appears in the books.

56. A and B are partners in a firm sharing profits in the ratio of 5 : 3. On 1st April, 2006. They admitted C as a new partner. The new profit-sharing ratio will be 4 : 3 : 2. C brought in Rs. 1,40,000 in cash as his share of capital but could not bring any amount for goodwill in cash. The firm's goodwill on C's admission was valued at Rs. 2,52,000. At the time of C's admission goodwill existed in the books of the firm at Rs. 3,36,000.

Pass necessary journal entries in the books of the firm on C's admission. Show your working clearly.

57. P and Q were partners in the ratio of 3: 2. R was admitted for ¼ th share. Goodwill already appears in the books of accounts Rs. 52,000. Pass necessary journal entries in the following cases :

   1. R was not able to bring any share of goodwill i.e. Rs. 41,600.

   2. R brings his share of goodwill in cash i.e. 41,600.

58. Ram and Shyam were partners sharing profits equally. They admit Mohan into partnership.

Mohan paying only Rs. 4,000 for premium out of his share of premium of Rs. 7,200 for ¼ th share of profits. Goodwill account appears in the books at Rs. 24,000 All the partners have decided that goodwill should not appear in the new firm's books.

Give necessary journal entries.

59. A and B were partners in the ratio of 5 : 3. C was admitted for $\frac{1}{5}$th share which he will acquire $\frac{1}{6}$th from A and $\frac{1}{30}$th from B. C brings Rs. 22,500 as his share of goodwill out of his share of Rs. 40,500. No goodwill account appears in the books of the firm. Pass necessary journal entries and also find out the new profit-sharing ratio.

60. Amita and Babita were partners in the ratio of 3 : 1. Charu was admitted for $\frac{1}{3}$rd share. Charu's share of goodwill/premium was Rs. 30,000 which she was not able to bring it in cash. It was decided that new profit sharing ratio will be equal in future. Pass necessary journal entries.

61. Sonu and Monu were partners in the ratio of 3 : 2. Chirag was admitted for $\frac{1}{5}$th share. Chirag acquires his share from Sonu and Monu in the ratio of 2 : 3. At the time of admission Goodwill was valued at Rs. 195,000. Chirag brings Rs. 7,50,000 as capital but was not able to bring any cash goodwill. Pass necessary journal entries if capitals are fixed under the following cases:
1. No goodwill appears in the books.
2. Goodwill appears in the books at Rs. 97,500.

62. A and B were partners with capital of Rs. 29,250 and Rs. 20,250 respectively. They admit C For $\frac{1}{5}$th share. Rs. 18,000 were brought by C as his share of capital. Pass necessary Journal entries.

63. Asha and Vibha were partners in a firm in the ratio of 4 : 1. On 1st September 2007, they admit Radha as a new partner for $\frac{1}{5}$ th share. At the date of admission of Radha, there was a balance of Rs. 2,40,000 in general reserve and a debit balance of Rs. 1,20,000 in the profit and loss account of the firm. Pass necessary journal entries for the adjustment of accumulated profit or loss.

Bussiness Studies :

Q1. "Management is skillful and personal applications of existing knowledge to achieve desired results" Explain?

Q2. The 5 functions of management planning, organising, staffing, directing and controlling are not need in schools, hospital, sports, club etc. as they are not run on commercial basis. identify the features of management ignored in their given case?

Q3. Such a determines the overall objectives and strategies for the organisation he also interacts with business environment to analyse its implications. Name the managerial level at which sachin is working state any 4 of his basic Functions.

Q4. The purchase, production and sales manager at sharda limited A firm manufacturing redeemed garments are generally at a conflict They have their own objectives Usually, each think that only they ar qualified to evaluate judge and decide on any matter according to their professional criteria. name the concept which will be required by the CEO Mr. Raman, To reconcile The difference in approach interest or opinion in the organisation.

Q5. Explain the levels of management?

Q6. Explain the difference between unity of commands And unity of direction?

Q7. Mohan always come One are late in the office and leave 1/2 an hour before The schedule time no panel action is Taken against him Other employees are also started coming late in the office management is very disturbed with this and has started scolding the employees.

  i) which management principle is being violated in the given case

  ii) Mentioned one probable adverse consequences of violated of the given Employees?

Q8." Most of the big companies and MNC's are hesitant To invest in some of the North Eastern State of India due to instability of government And lack of incentives by the government" This which environment is referred here?

Q9. Identify the dimensions of business environment. explain all the dimensions in briefly And with the examples?

Q10. Explain the process Of planning

Q11. Explain the types of plan with examples?

Q12. Explain the difference between Taylor and Fayol?

Q13. Maruti started offering a discount of ₹20000 on purchase of Wagon R. In response to this Hyundai started With a scheme of free MP3 player with every Santro. identify the type of plan indicated in the given statement.

Q14. Explain the difference between formal and informal organisation

Q15. Accountability can be delegated or not explained Briefly?

Banking :

Q1. Explain the difference between NEFT and RTGs

Q2. What are the different sources of revenue to the bank for selling mutual funds?

Q3. What are the advantages and disadvantages of keeping shares in the Demat account?

Q4. What are the advantages and disadvantages of electronic payment system

Q5. Explain the difference between mutual accounting and computerized accounting system?

Q6. What is ATM explain the process of ATM for cash withdrawal? Draw a diagram.

Q7. Discuss in the precautions to be followed while using ATM card?

Q8. What is mobile banking explain the advantages and disadvantages of mobile banking

Q9. What methods Fraudsters adopt a number of cases?

Q10. Explain the brokerage services and also explain the different types of brokerage services available in the market?

Q11. What is rabbit card explain that advantage in disadvantages of debit card?

Q12. Explain the letter of credit process?

Q13. What is credit card explain the Differentypes of parties of credit card?

Political Science :

ASSIGNMENT – 1

- Question what is Sark in context of safta and FTA
- Explain shock therapy and USSR's theory
- Explain European Union its flag features and member countries

- Explain each yarn its flags features and member countries
- Explain that is integration of USSR in context of Michael Gorbachev and Michael gorbachev's theory of reform
- Explain Chinese economy and Chinese vision 2050

Explain Relations Given Below
- *India China Relation*
- *India Russia Relations*
- *India Pakistan Relish*
- *India Maldives Relation*
- *India Nepal Relations*
- *India Bhutan Relation*
- *India Sri Lanka Relation*
- *Bricks*
- *Operation Iraqi Freedom*
- *New International Economic Order*

ASSIGNMENT – 2
- Prepare PPT from new centre of power contemporary South Asia Cold War and United Nations Security council
- prepare 1- 1 assignment minimum 5 pages maximum 8 pages from each chapter
- Prepare chart from each chapter in the form of collage and in the form of drawing
- prepare yourself in the form of speech from all chapters under art integration activities

Economics :

Assignment

Ques 1 Explain the difference between microeconomics and macroeconomics give suitable Examples.

Ques 2 Distinguish between intermediate goods and final goods and explain the importance of this distinction in the study of national income

Ques 3 "Circular flow principal is based on the assumption that one's expenditure will become other's income".Explain the given statement

Ques 4 Giving valid reasons, classify the following into stock and flow variable
   (1) population of India as on 31 March 2021
   (2) domestic income of Indian economy during the fiscal year 2020-2021

Ques 5 "Money is what money does" Explain

Ques 6 Using a hypothetical numerical example, explain the process of credit creation by

commercial bank

Ques 7 Using a well-labelled diagram, show how consumption curve can be drived from saving curve

Ques 8 Distinguish between average propensity to consume and marginal propensity to consume.The value of which of these two can be greater than one and when?

Ques 9 Estimate the value of aggregate demand in a economic if

(A) Autonomous investment ($\bar{I}$)= rupees 100 crores

(B) marginal propensity to save (MPS)=0.2.

(C) Level of income (Y) =rupees 4000 crore

(D) autonomous consumption expenditure (C)=50 crore

Ques 10 Equality between AS and AD implies the Equality between S and I .Write equation to prove this fact

Ques 11 Define effective demad discuss how effective demands can be restored if ex-antesaving is less than ex-ante investment

Ques 12 what is meant by investment multiplier? Explain with the help of a suitable examp

Ques 13 what is meant by deficient demand ? Explain its causes and consequences.

Ques 14 What is fiscal policy what are its various instruments

Ques 15 "To boost the following demand in the economy, the reserve Bank of India Recently reduce the repo rate.' Elaborate the rationale behind the steps taken by the central bank.

History :

Assignment

Ques 1 Describe the briefly the most distinctive feature of urbans centre of harrapan

Ques 2 Write reasons for the decline of harrapan civilization

Ques 3 Why did Cunningham, the first directer general of the ASI, miss the significance of harrapa.

Ques 4 Critically discuss that India has trade relation with certain outside the country or areas of the world such as Omam and Mesopotamia etc.

Ques 5 Locate the sides of harrapan cities on Indian political map

Ques 6 Who was James Princep? How did his discovery give a new direction for studying early Indian history?

Ques 7 "Buddhism grew rapidly both during the life time of the Buddha and also after his death" Justify the statement.

Ques 8 Describe the main characteristics of Mauryan Administration. Point out the major souce used by the historian to reconstruct the history of Mauryan empire

Ques 9 Evaluate the historical importance of Kautilya's 'Arthashastra'?

Ques 10 Who composed the origin story of Mahabharat discus the various phases in the composition of text

Ques 11 What was Stridhana?

Ques 12 What were the reasons of popularity of Buddhism?

Physical Education :

Revise

Unit - 1 Planning in Sports

Unit - 2 Sports and Nutrition.

Unit - 3 Yoga and Lifestyle.

Unit - 6 test and measurement in sports

Make a project report on yoga (any 5 aasans).

Information Techonology :

1. Define Operating web based application
2. What is online reservation system also explain the process of online reservation system.
3. What is project management. Write the characterstics of project manangement
4. Explain the process of Online reservation system.
5. Discuss the Phase in web development cycle.
6. Explain the phases of online game in web development cycle.
7. Suppose number of products specified by user while making order, exceeds five . take care of this situation in function insert_ order of class order.
8. Suppose if the customer cancels the order, payment should be refunded to him. For achieving this, is there any need to make changes in Payment tables . if yes, how will you specify those changes. Also write a function.
9. Draw the diagram of relationships between entities and functionality of online shopping.

10. Explain the identification of potential work areas.

Music :

1. Make a time theory of Raga on A3 sheet.
2. Make a project file on life Sketch of bade Ghulam Ali Khan with coloured pictures.
3. Make a PPT on Raag Malkauns with Chota Khayal…..Bandish…..with audio.

Happy Holidays
Keep Enjoying
and
Take good care of yourself