

GEMS ACADEMIA ICSE SCHOOL, REWA
UNIT TEST - II (SESSION: 2026-27)
CLASS - VIII
EXAM SYLLABUS & BLUEPRINT
Maximum Marks: 15 Marks
Duration: 35 Minutes

Mathematics

Syllabus: Chapter 3: Squares & Square Roots, Chapter 4: Cubes & Cube Roots, Chapter 6: Sets

Section	Target Component	Academic Scope & Question Format	Item Count × Marks	Subtotal
Section A	Core Fundamentals	Objective Identification: Multiple-choice questions checking factual definitions, direct numerical properties, and foundational terminology across all syllabus chapters.	5 Qs × 1 Mark	5 Marks
Section B	Execution & Processing	Procedural/Structural Calculation: Medium-length direct solving questions requiring standard calculation algorithms and structural step-by-step working.	2 Qs × 2 Marks	4 Marks
Section C	Advanced Synthesis	Application & Analytical Solving: Multi-step logical analysis problems testing the structural application of core operations or mathematical proofs.	2 Qs × 3 Marks	6 Marks
Total			9 Questions	15 Marks

Physics

Syllabus: Ch 2: Physical Quantities & Measurement, Ch 3: Force & Pressure, Ch 4: Energy

Section	Target Component	Academic Scope & Question Format	Item Count × Marks	Subtotal
Section A	Knowledge Recall	Metric & Fact Identification: Objective completion items targeting standard SI units, basic constants, and standard scientific formulas.	5 Qs × 1 Mark	5 Marks
Section B	Comprehension	Conceptual Differentiation: Direct short-answer comparisons requiring students to differentiate between overlapping physical parameters or characteristics.	2 Qs × 2 Marks	4 Marks
Section C	Scientific Application	Quantitative & Diagrammatic Analysis: One practical mathematical numerical based on standard physics formulas, and one structural scientific drawing/interpretation task.	2 Qs × 3 Marks	6 Marks
Total			9 Questions	15 Marks

Chemistry

Syllabus: Ch 3: Elements, Compounds & Mixtures, Ch 4: Atomic Structure

Section	Target Component	Academic Scope & Question Format	Item Count × Marks	Subtotal
Section A	Symbolic Memory	Identification & Classification: Quick objective items checking chemical symbols, classification of matter, or fundamental numeric parameters.	5 Qs × 1 Mark	5 Marks
Section B	Basic Concepts	Technical Definition: Short-answer questions testing precise scientific definitions and core chemical parameters.	2 Qs × 2 Marks	4 Marks
Section C	Structural Synthesis	Schematic & Process Analysis: Analytical questions requiring structural schematic illustrations or detailed operational explanations of chemical processes.	2 Qs × 3 Marks	6 Marks
Total			9 Questions	15 Marks

Biology

Syllabus: Ch 2: Reproduction in plants and animals, Ch-3:Ecosystem

Section	Target Component	Academic Scope & Question Format	Item Count × Marks	Subtotal
Section A	Objective Type	Multiple Choice Questions (MCQs) — 2 Marks (2 Questions × 1 Mark each — 1 from each chapter) Match the Following / State True or False — 3 Marks (3 Questions × 1 Mark each)	5 Qs × 1 Mark	5 Marks
Section B	Short Question	1 Question from Reproduction (e.g., Binary fission vs Budding, or functions of Placenta) 1 Question from Ecosystem (e.g., Biotic vs Abiotic components, or Decomposers' role)	2 Qs × 2 Marks	4 Marks
Section C	Long Question	Diagram / Structural Question (Reproduction) — 3 Marks Application / Flowchart Question (Ecosystem) — 3 Marks	2 Qs × 3 Marks	6 Marks
Total			9 Questions	15 Marks

History & Civics

Syllabus: History - Ch 3-The growth of Nationalism | Civics - Ch 12- main Organs of the Indian Government

Section	Target Component	Academic Scope & Question Format	Item Count × Marks	Subtotal
Section A	Objective Type Question	Q1. History (2 x 1M = 2 Marks): MCQs or Match the Columns	5 Qs × 1 Mark	5 Marks

		Q2. Civics (3 x 1M = 3 Marks): Fill in the Blanks or True/False		
Section B	Short Answer	History (1 x 2M = 2 Marks) Civics (2 x 2M = 4 Marks)	3 Qs x 2 Marks	4 Marks
Section C	Structured/Long Answer Type	Analytical Long Answer: Extended-response questions focusing on institutional functions, systemic causes, or long-term impacts of movements.	2 Qs x 3 Marks	6 Marks
Total			9 Questions	15 Marks

Geography

Syllabus: Chapter 2: Population Dynamics, Chapter 3: Migration

Section	Target Component	Academic Scope & Question Format	Item Count x Marks	Subtotal
Section A	Data Identification	Term Alignment: Objective matching or blank-fillings targeting demographic terminology, global trends, or migratory variations.	5 Qs x 1 Mark	5 Marks
Section B	Core Variations	Conceptual Comparison: Dual-parameter comparison questions testing clean segregation between contrasting environmental or human factors.	2 Qs x 2 Marks	4 Marks
Section C	Impact Assessment	Socio-Economic Reasoning: Interpretative analysis questions discussing the environmental, economic, or social consequences of global shifts.	2 Qs x 3 Marks	6 Marks
Total			9 Questions	15 Marks

Computer Science

Syllabus: Ch 3: Algorithms and Flowcharts, Ch 4: Program Coding

Section	Target Component	Academic Scope & Question Format	Item Count x Marks	Subtotal
Section A	Flowchart & Algorithm	Multiple Choice based on symbols, process, True/False characteristics, features, symbols.	5 Qs x 1 Mark	5 Marks
Section B	Define Symbols Flowchart, Relation between Flowchart and Algorithm	Define process symbols, write algorithm to compare two numbers A and B.	2 Qs x 2 Marks	4 Marks
Section C	Technical Terminology, Features of OOPs, Operators, Program	Object-Oriented, Case-Sensitive, Robust, Class, Tokens, Operators, Coding.	2 Qs x 3 Marks	6 Marks
Total			9 Questions	15 Marks

English Language

Syllabus: Chapter 6: Verbs and Auxiliaries, Chapter 7: Finite and Non-Finite Verbs, Chapter 8: Verbs - The Present Tense, Chapter 9: Verbs - The Past Tense, Chapter 10: Verbs - The Future Tense.

Section	Evaluation Target	Academic Scope & Question Format	Item Count × Marks	Subtotal
Section A	Structural Mechanics	Syntax Identification: Multiple-choice questions checking structural verb classifications, auxiliary identification, and structural rule verification.	5 Qs × 1 Mark	5 Marks
Section B	Applied Grammar	Syntactic Insertion & Editing: Short-answer cloze tasks or rewriting exercises requiring precise insertion of infinitive/gerund tokens or auxiliary forms.	2 Qs × 2 Marks	4 Marks
Section C	Advanced Tense Matrix	Tense Transformation & Synthesis: Multi-step structural transformation tasks requiring chronological shift of sentences into specified structural timelines.	2 Qs × 3 Marks	6 Marks
Total			9 Questions	15 Marks

English Literature

Syllabus: Chapter 3: The Story of the Saptarishis, Chapter 4: An Interview with Milkha Singh, Chapter 4(B): Song.

Section	Evaluation Target	Academic Scope & Question Format	Item Count × Marks	Subtotal
Section A	Textual Memory	Objective Comprehension: Multiple-choice or objective questions tracking critical character actions, settings, or vocabulary meanings directly from the text.	5 Qs × 1 Mark	5 Marks
Section B	Conceptual Recall	Direct Short Answer: Narrative-driven text queries testing comprehension of specific events, character perspectives, or central thematic plots.	2 Qs × 2 Marks	4 Marks
Section C	Textual Inference	Reference to Context (RTC): An analytical text extract selected from the prose or poetry syllabus, followed by interpretive sub-questions evaluating contextual depth.	2 Qs × 3 Marks	6 Marks
Total			9 Questions	15 Marks

हिन्दी

पाठ्यक्रम: साहित्य (पाठ 4, पाठ 5) | व्याकरण (संधि, संज्ञा, सर्वनाम) | पत्र लेखन

भाग (Section)	मूल्यांकन का क्षेत्र	प्रश्न का प्रकार और शैक्षणिक प्रारूप (Academic Scope & Format)	प्रश्नों की संख्या × अंक	कुल अंक
भाग क (Section A)	व्याकरणिक ज्ञान	वस्तुनिष्ठ व्याकरण पहचान: नियमों के अनुप्रयोग, पद-भेद की पहचान तथा भाषिक अशुद्धि निवारण पर आधारित बहुविकल्पीय प्रश्न (MCQs)।	5 प्रश्न × 1 अंक	5 अंक
भाग ख (Section B)	साहित्यात्मक बोध	पाठ्यपुस्तक आधारित वैचारिक प्रश्न: निर्धारित गद्य अथवा पद्य अध्यायों के मूल संदेश, वैचारिक समझ और कथनों की समीक्षा पर आधारित लघु उत्तर।	2 प्रश्न × 2 अंक	4 अंक
भाग ग (Section C)	साहित्यिक विश्लेषण एवं अनुप्रयोग	गहन वैचारिक व विश्लेषणात्मक पत्र: निर्धारित पाठों के संदर्भ पर आधारित विश्लेषणात्मक एवं अर्थग्रहण वाले विस्तृत उत्तर।	2 प्रश्न × 3 अंक	6 अंक
कुल योग			9 प्रश्न	15 अंक

संस्कृत

पाठ्यक्रम: पाठ 6, पाठ 7 | व्याकरण परिशिष्ट: 'लता' शब्द रूप, 'पठ्' व 'दृश्' धातु रूप

भाग (Section)	मूल्यांकन का क्षेत्र	प्रश्न का प्रकार और शैक्षणिक प्रारूप (Academic Scope & Format)	प्रश्नों की संख्या × अंक	कुल अंक
भाग क (Section A)	भाषिक अवबोधन	रिक्त स्थान / शब्द चयन: वाक्यों में व्याकरणिक नियमों, पद संगति (कर्ता-क्रिया समन्वय) अथवा श्लोक-सूक्तियों के आधार पर वस्तुनिष्ठ पद चयन।	5 प्रश्न × 1 अंक	5 अंक
भाग ख (Section B)	रूपात्मक व्याकरण	विभक्ति संरचनात्मक अभ्यास: निर्धारित संज्ञा पदों की विशिष्ट विभक्तियों और वचनों के अनुसार रूपात्मक सारणी को पूर्ण करने वाले लघु प्रश्न।	2 प्रश्न × 2 अंक	4 अंक
भाग ग (Section C)	क्रियात्मक व्याकरण	धातु रूप काल सारणी निर्माण: निर्दिष्ट धातुओं के पुरुष एवं वचनों के अनुसार पूर्ण क्रिया-रूपात्मक तालिकाओं (Conjugation Matrices) का निर्माण।	2 प्रश्न × 3 अंक	6 अंक
कुल योग			9 प्रश्न	15 अंक