Instructions for Preparation of Exam Paper of Mathematics for Grade-10

- **The paper of Mathematics for Grade-10 will consist of 75 marks.**
- **Objective Type = 15 marks & Subjective Type = 60 marks.**
- **Timing of the paper will be 2:30 hours.**
- **Objective Type = 20 minutes + Subjective Type = 2:10 hours.**
- **The paper will be made as per following details:**

Objective (MCQs)	**Q-1:** There will be 15 Multiple Choice Questions (MCQs) from the entire content of the textbook. The detail is as follows: One MCQ each from chapters 1, 2, 3, 4, 5, 6, 7, 8 and 10 and two MCQs each from chapters 9, 11, and 12.	1 × 15 = 15
Part-I: Subjective	This section contains three (3) short questions. The detail is as follows: **Q-2:** Students are required to attempt any 6 out of 9 short questions. The details are as follows: • At least two short questions will be given each from chapters 1, 2, 3 & 4. **Q-3:** Students are required to attempt any 6 out of 9 short questions. The details are as follows: • At least two short questions will be given each from Chapters 5, 6, 7, and 8. **Q-4:** Students are required to attempt any 6 of the 9 short questions. The details are as follows: • At least two short questions will be given each from Chapters 9, 10, 11 and 12.	2 × 6 = 12 2 × 6 = 12 2 × 6 = 12
Part-II: Subjective:	This section will contain three (3) long questions bifurcated in two-parts **a & b** (carrying 4 marks each) and students have to attempt two questions. The detail is as follows: **Q-5:** **(a)** One long-answer question will be selected from chapter 1. **(b)** One long-answer question will be selected from chapter 2. **Q-6:** **(a)** One long-answer question will be selected from chapter 3. **(b)** One long-answer question will be selected from chapter 4. **Q-7:** **(a)** One long-answer question will be selected from chapter 5. **(b)** One long-answer question will be selected from chapter 7.	2 × 8 = 16

Part-III: Subjective:	This section will contain two long questions bifurcated in two-parts **a & b** (carrying 4 marks each) and students have to attempt one question. The detail is as follows: **Q-8:** **(a)** One long-answer question will be selected from chapter 6. **(b)** One long-answer question will be selected either from chapter 8 or chapter 11. **Q-9:** **(a)** One long-answer question will be selected from chapter 10. **(b)** One long-answer question will be selected either from chapter 9 or chapter 12.	$1 \times 8 = 8$

MODEL PAPER OF MATHEMATICS FOR GRADE-10

Annual Examination 2027 — Smart Syllabus / ALP Academic Session 2026-27

OBJECTIVE TYPE

Time Allowed: 20 mins. **Max. Marks: 15**

Note: Encircle the correct answer. Each question carries one mark.

Cutting or overwriting in an MCQ cancels that answer. **(1 × 15 = 15)**

No.	Questions	A	B	C	D
i	Imaginary part of $(2 - i)(2 + i)$ is:	0	1	7	9
ii	Sum of the roots of $3x^2 + 5x - 12 = 0$ is:	$\frac{5}{3}$	$-\frac{5}{3}$	$\frac{12}{3}$	$\frac{3}{5}$
iii	If $A = \begin{bmatrix} 3 & 1 & 3 \\ 2 & 0 & 2 \end{bmatrix}$, then order of A^t is:	3-by-2	2-by-3	3-by-3	2-by-2
iv	If $f(x) = x^2 - 4$, $g(x) = x + 2$, $x \neq -2$, then $\frac{f(x)}{g(x)} =$	$\frac{1}{x - 2}$	$\frac{1}{x + 2}$	$x + 2$	$x - 2$
v	Lowest form of $\frac{18a^2bc^2}{12ac}$ is:	$\frac{9abc}{6}$	$\frac{3abc}{2}$	$\frac{18b}{12}$	$\frac{3}{2}$
vi	What is the value of $\lvert 3\underline{i} + 4\underline{j} \rvert$?	3	4	5	7
vii	cosec θ is positive in:	I & III quadrants	II & IV quadrants	I & II quadrants	I & IV quadrants
viii	A chord passing through the centre of the circle is called:	radius	diameter	secant	circumference
ix	In a circle, radius and tangent are:	parallel	equal	perpendicular	zero
x	What is the measure of an angle inscribed in a semi-circle?	45°	60°	90°	120°