

MSD/2025-26/VII/MATHEMATICS/HY/PG 1 of 4



Name: Pasthavi

Class: VII E

Subject: MATHEMATICS

Date: 13/9/25

Session: 2025-26

Invigilator Sign.: [Signature]

Roll No.

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SET A
SUBJECT CODE: 041

Time allowed: 2 hours 30 minutes

Maximum Marks: 60

NOTE :

- Please check that this question paper contains 4 printed pages.
- Question paper Code given on the right hand side of the question paper should be written on the title page of the answer-book by the candidate.
- Please check that this question paper contains 37 questions.
- Please write down the serial number of the question in the answer-book before attempting it.
- 15 minutes time has been allotted to read this question paper. The students will read the question paper only and will not write any answer during this period.

General Instructions:

Read the following instructions very carefully and follow them:

- This question paper contains 37 questions. All questions are compulsory.
- Question paper is divided into SIX Sections – Section A, B, C, D, E and F.
- In Section A – Question Number 1 to 17 are Multiple Choice Questions (MCQs) of 1 mark each.
- In Section B – Question Number 18 to 27 are Very Short Answer (VSA) type questions of 1 mark each.
- In Section C - Question Number 28 to 30 are Short Answer (SA) type questions of 2 marks each.
- In Section D - Question Number 31 to 33 are Short Answer (SA) type questions of 3 marks each.
- In Section E - Question Number 34 and 35 are Long Answer (LA) type questions carry 5 marks each.
- In Section F - Question Number 36 and 37 Case Study Based Questions are carrying 4 marks each.
- Use of calculator is not allowed.

Section-A

Q.No.		Marks
1.	The coefficient of $5a^2$ in $-5a^3bc$ is: (a) $-bc$ (b) a^2bc (c) $-a^2bc$ (d) $-abc$	1
2.	The decimal form of the given number $\frac{16}{1000}$ is: (a) 1.6 (b) 0.16 (c) 0.0016 (d) 0.016	1
3.	The value of $(10 + 2) \times (8 - 5)$ is: (a) 36 (b) 30 (c) 24 (d) 40	1
4.	The reciprocal of $2\frac{5}{7}$ is: (a) $\frac{5}{7}$ (b) $\frac{5}{14}$ (c) $\frac{19}{14}$ (d) $\frac{7}{19}$	1
5.	If two lines AB and CD intersect each other at O, then: (a) $\angle AOC = \angle BOC$ (b) $\angle AOC = \angle BOD$ (c) $\angle AOC = \angle AOD$ (d) $\angle BOC = \angle BOD$	1
6.	The algebraic expression for the statement 'Three times the square of a number x subtracted from the sum of y and 2' is: (a) $3x^2 - 5y + 2$ (b) $3x^2 - 5y - 2$ (c) $y + 2 - 3x^2$ (d) $y + 2 + 3x^2$	1

7. The place value of the digit 7 in the number 5.67 is: 1
(a) 7 tenths (b) 7 hundredths (c) 7 ones (d) 7 tens
8. The operation which has the highest priority in BODMAS is: 1
(a) Addition (b) Subtraction (c) Brackets (d) Multiplication
9. The product of $\frac{4}{6} \times \frac{3}{5}$ is: 1
(a) $\frac{4}{5}$ (b) $\frac{1}{2}$ (c) $\frac{1}{5}$ (d) $\frac{2}{5}$
10. A pair of angles which is not a linear pair is: 1
(a) 125° and 55° (b) 137° and 43° (c) 121° and 69° (d) 90° and 90°
11. The expression $7x - 5(x^2 + y^2)$ is a: 1
(a) monomial (b) binomial (c) trinomial (d) polynomial
12. The sum of $5.3 + 2.6$ is: 1
(a) 79 (b) 7.09 (c) 8.7 (d) 7.9
13. The statement which represent the following arithmetic expression is: 1
 $3 \times (12 - 4)$
(a) Subtract 4 from 12 and multiply the result by 3.
(b) Subtract 12 from 4 and multiply the result by 3.
(c) Subtract 4 from the product of 3 and 12.
(d) Subtract 12 from the product of 3 and 4.
14. The fraction $\frac{11}{7}$ lies between: 1
(a) 11 and 7 (b) 1 and 2 (c) 0 and 1 (d) 2 and 3
15. The complementary angle of 15° is: 1
(a) 165° (b) 105° (c) 75° (d) 70°

Directions:

In question No. 16 and 17 a statement of Assertion (A) is followed by a statement of Reason (R).

Choose the correct option.

- (a) Both, Assertion (A) and Reason (R) are true and Reason (R) is correct explanation of Assertion (A).
(b) Both, Assertion (A) and Reason (R) are true but Reason (R) is not 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.
16. Assertion (A): The number of like terms in $3a^2, -5ab^2, 6a^2b, -7a^2, 7b^2, 11b^3$ and $-a^2$ is 3. 1
Reason (R): Like terms are the terms that have the same variable and power.
17. Assertion(A): Dividing 60 equally among 6 children gives 10 for each child. 1
Reason (R): Equal sharing is done by multiplication.

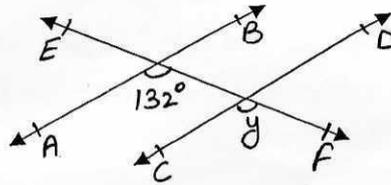
Section – B

18. If $m = 2$, then find the value of the given expression ' $3m - 5$ '. 1
19. The length of clownfish is $4\frac{3}{10}$ cm and the length of a cardinal tetra is $2\frac{1}{10}$ cm. What is the difference in their 10 lengths. 1
20. Evaluate the given arithmetic expression: 1
 $-22 - (-12 + 10) + 22$
21. Find the number, if $\frac{2}{3}$ of a number is 66. 1
22. The length of the side of a square is given as $x^2 + 3$. Find the perimeter of the square? 1

23. Arrange the following quantities in descending order. 1

33.13 m, 33.133 m, 33.31 m, 33.313 m

24. In the adjoining figure, $AB \parallel CD$. Find the value of angle y . 1

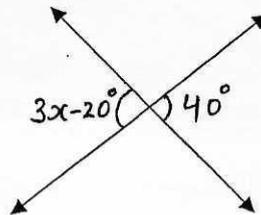


25. Write all the terms of the following arithmetic expression. 1

$$6 \times 3 - 4 \times 8 \times 5$$

26. Simplify $\frac{125}{375}$ to its lowest term. 1

27. In the adjoining figure, find the value of x . 1



Section - C

28. Write all the terms and their factors of the algebraic expression $3xy - 7x$. 2

29. Mahi purchases 0.25 kg of beans, 0.3 kg of carrots, 0.5 kg of potatoes, 0.2 kg of capsicums and 0.05 kg of ginger. Calculate the total weight of the item she bought? 2

30. Write a story/situation of the following expressions and also, find the value. 2

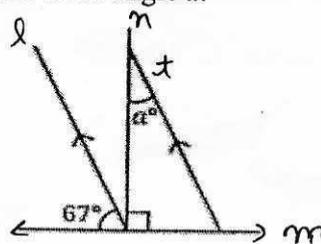
$$5 \times 12 - 6$$

Section - D

31. Subtract $-15x + 13 - 9y$ from $7y - 10 + 3x$. 3

32. The area of a rectangle is $115\frac{3}{4} \text{ m}^2$. If its length is $17\frac{3}{4} \text{ m}$, find its breadth. 3

33. In the adjoining figure, find the value of an angle a . 3

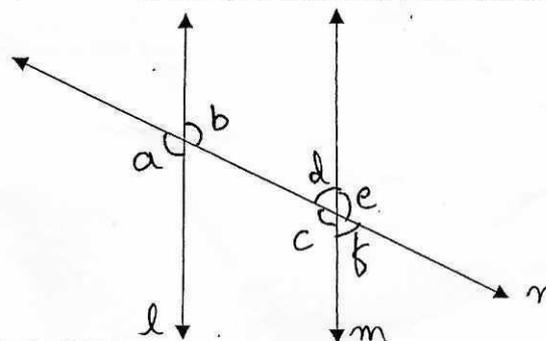


Section - E

34. Simplify: 5

$$6\frac{4}{10}\frac{8}{100} + 14\frac{5}{10}\frac{3}{100} - 12\frac{6}{10}\frac{2}{100}$$

35. In the given figure, lines $l \parallel m$. If $\angle a$ is 120° , then find all the unknown angles b, c, d, e and f . 5



Section - F

36. Case Study 1:

The government has taken $\frac{1}{6}$ of Somu's land to build a road. She gives half of the remaining part of the land to her daughter Krishna and $\frac{1}{3}$ of it to her son Bora. After giving them their shares, she keeps the remaining land for herself.

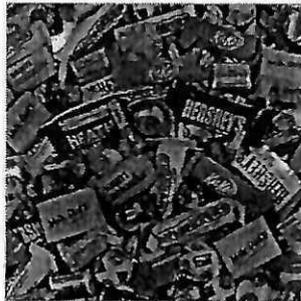


Based on the above information answer the following questions.

- (i) What part of the original land did Krishna get? 1
- (ii) What part of the original land did Bora get? 1
- (iii) What part of the original land did Somu keep for herself? 2

37. Case Study 2:

Raju went to a fair. He bought 2 packets of balloons for ₹25 each, 3 toy cars for ₹40 each, and 5 chocolates for ₹10 each.



Based on the above information answer the following questions.

- (i) What is the total cost of balloons? 1
- (ii) What is the cost of 3 toy cars? 1
- (iii) What is the total money Raju spent? 2