Total No. of Questions: 12

Roll No .....

Total No. of Pages: 04

Class 8th
Term 2nd 2019
MATH

Series-A

Time: 2:30 Hrs.

Max. Marks: 40

Section (A)

Q.No.1. *Do as directed:*

(I) Identify the binomial; (Choose correct one)

a) $3xy$

b) $3x + y$

c) $3 + x + y$

d) xyz

(II) Coefficient of 'y' in $-3 - \frac{1}{2}y$ is.....(Fill in the blanks)

(III) Area of rectangle is calculated by using formula $L + B$; (True/False)

(IV) $52 = 10 \times 5 +$..... (Fill in the blanks)

(V) If a number is divisible by 10, then the number is always divisible by; (Choose correct one)

a) 1

b) 2

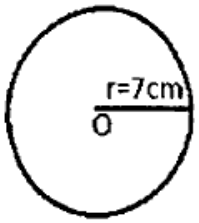
c) 5

c) All of these.

1 x 5= 5 Marks

Section (B)

Q.No.2. Calculate the area of given circle;



2 Marks

Q.No.3. Evaluate; $(-3)^2$ 2 Marks

Q.No.4. Find the missing entries if x, y are directly proportional. 2 Marks

x	2	...	12
y	3	9	...

Q.No.5. Divide; 2 Marks

$(9x^2 - 6x) \div 3x$

Section (C)

Q.No.6. Subtract; 2 Marks

$4a - 7ab + 3b + 12$ from $12a - 9ab + 5b - 3$

Q.No.7. Use $(x + a)(x + b) = x^2 + (a + b)x + ab$, find; 3 Marks

103×104

Q.No.8. Match the entries given in coloumn **A** with the relevant entries given in coloumn **B** 3 Marks

Coloumn A	**Coloumn B**
a) Bar Chart	1. Coordinates of a point 3
b) Pie Chart	2. Used to compare parts of whole 2
c) (2,3)	3. Used for comparison among categories 1

Q.No.9. Find the value of letter A in the following problem and write it completely (Question-Answer) in your answer book

$$\begin{array}{r} 1\ A \\ \times\ A \\ \hline 9\ A \end{array}$$

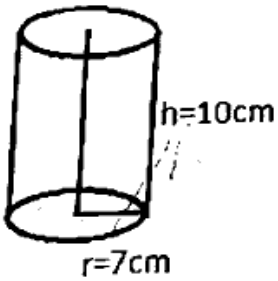
3 Marks

Section (D)

Q.No.10. If length, breadth and height of a cuboid is 15cm, 12cm and 5cm respectively. Find its volume and surface area.

Or

Calculate the volume and lateral surface area of given cylinder;



5 Marks

Q.No.11. Factorize; $x^4-(x-z)^4$

Or

(I) Factorise; $y^2 - xy - 8x + 8y$

(II) Find the common factor of the terms;

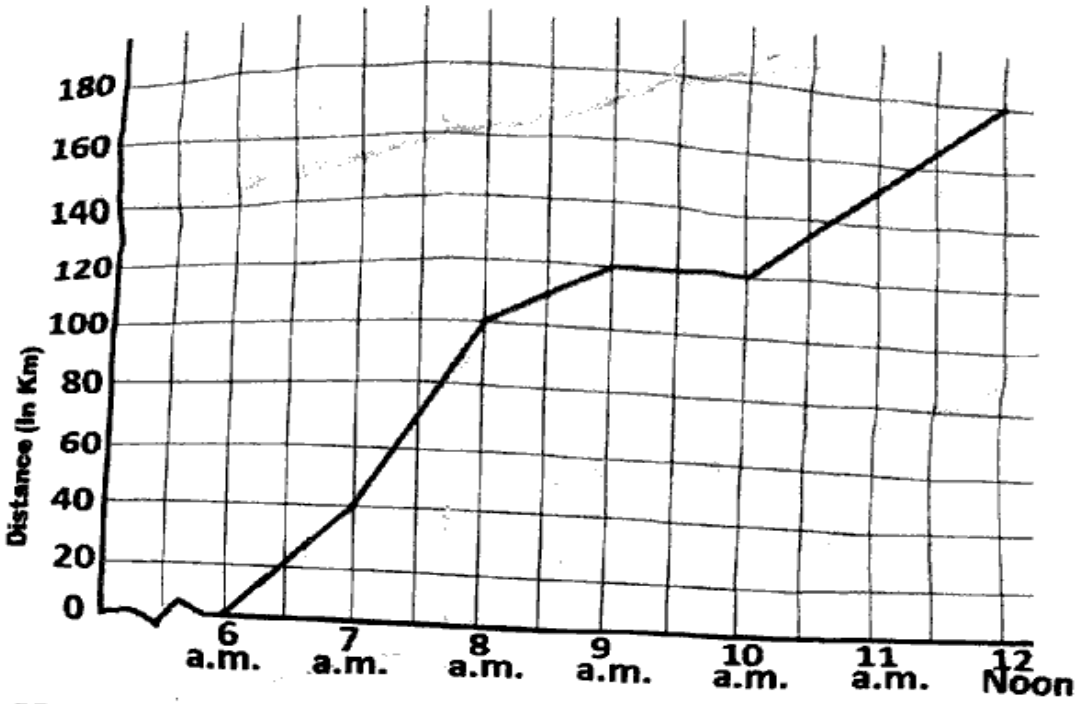
$3x^2y^3,\ 10x^3y^2,\ 6x^2y^2z$

5 Marks

Q.No.12. Draw the line passing through the points (1,2) and (2,1). Also find the coordinates of the points where this line meets X-axis and Y-axis.

Or

The given graph describes the distance covered by a car from one city to another city. Read the graph carefully and answer the questions given at the end.



1) How far did the car go in the first hour?
2) What was the average speed of car during first two hours?
3) What is the distance covered by the car from 6 a.m. to 12 noon?
4) The car stopped for some time. What is the duration for which car stopped?
5) What information is given on the horizontal axis.

5 Marks