

Entry Test Academic Session 2019-20

MATHEMATICS	Total Marks	25
		5 min
	Class: IG-	II(IX)
Write in block letters:		
Candidate Name		
Date		
Kindly read the instructions carefully;		
1 Answers must be written in ink.		
2 Write the number of question distinctly before each answer.		
3 CALCULATORS ARE ALLOWED.		

FOR OFFICIAL USE ONLY

Total Marks	Marks Obtained	Percentage	

Q.1 Solve the following equation.

[2]

a. $x^2 + 12x + 36 = 0$

Q.2 Simplify

a.
$$\frac{3}{2b-4c} + \frac{2}{3b-6c}$$

[2+2]

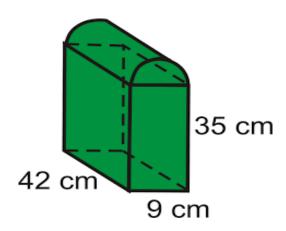
b.
$$\frac{3d-6}{d^2+d-6}$$

Q.2 The difference between two numbers is 9 and the product of the numbers is 162. Find the two numbers. [3]

Q.4 A solid consists of a cuboid and half cylinder.

Find [3+3=6]

- a) the volume
- b) the total surface area



Q.5 The sum of the ages of Ahmed and his mother is 60. Two years ago, Ahmed' mother was three times as old as Ahmed. Calculate

- a. Ahmeds present age.
- b. the age of Ahmed's when he was born.

[3]

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Q.6 A car took 2 hours and 15 minutes to travel 198km. If it arrived at its destination at 1206, find

- a. the time it started its journey;
- b. the average speed of the car, giving your answer in kilometers per hour.

[3]

Q.7 The length of two diagonals of a rhombus are 16cm and 12cm respectively. Find the length of one side of the rhombus. [3]

