## The Brigade School-Unit Test:1 (2020-21)

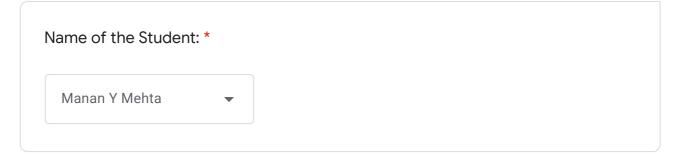
Total points 12/15

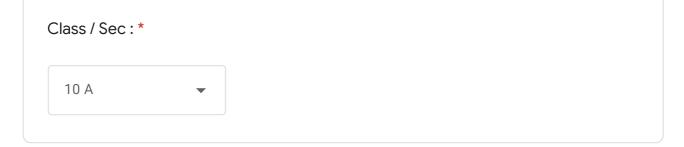


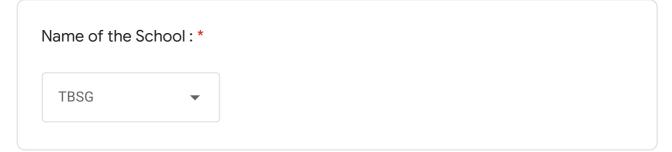
Mathematics Std: 10 Max.Marks: 15

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0 of 0 points







Choose the correct Answer for the Following

12 of 15 points

Each Question Carries 1 mark

✓ 1) l k is	If $x = \frac{2}{3}$ is a solution of the equation $3x^2 - kx - 4 = 0$ , then the value of s *	1/1
O + 4	4	
- 4	ļ.	<b>/</b>
3/4		
	If the n th term of an A.P. is (13 - 4n), then the sum of first 20 terms of e A.P. is *	1/1
58	30	
	80	
-58		<b>~</b>
	160	<b>~</b>
<ul><li>✓ 3)  </li></ul>		S1/1
<ul><li>✓ 3)  </li></ul>	Renu deposited ₹ 200 per month in a R D account. If the rate interest is % p.a., then the Interest she earned in 2 years is *	s1/1

● ₹500

20	The Brigade School-Unit Test:1 (2020-21)
×	4) If the roots of a quadratic equation are real and distinct, then the discriminant is *
C	) > 0
•	<b>×</b>
C	) = 0
Cor	rect answer
•	) > 0
ı	Feedback
	o^2 - 4ac > 0, then roots are real and distinct
×	5) Volume of a cone of base diameter 14 cm is 1232 <u>cu.cm</u> , its slant height0/1 is *
C	28 cm
•	) 24 cm
C	25 cm
Cor	rect answer

② 25 cm

Feedback

```
V={1\over 3}\pi\,r^{\wedge}2h
1232 = \frac{1}{3}x(22/7)x7x7xh
∴ h = 24 cm
I = \sqrt{(h^2 + r^2)}
I = \sqrt{(24^2 + 7^2)}
I = 25 \text{ cm}
```

✓ 6) The roots of the equation $x^2 = 5x$ are / is *	1/1
O 0	
<u> </u>	
● 0 or 5	<b>~</b>
√ 7) Arjun deposits ₹ 75 per month in a cumulative deposit account. H gets ₹ 3116.25 after 3 years as the maturity value. The interest paid k bank is *	
₹ 416.25	<b>✓</b>
<b>○</b> ₹ 614.25	
<b>○</b> ₹ 2700	
✓ 8) The altitude of a right triangle is 7 cm less than its base. If the thir side is 13 cm, then the length of the sides are *	rd 1/1
8, 15 and 17	
5, 12 and 13	<b>✓</b>
13, 84 and 85	

<b>✓</b>	9) If (p + 1), (5 p - 2) and (6 p + 1) are the three consecutive terms of an A.P., then p is $^{\star}$	1/
0	0	
•	2	<b>✓</b>
0	1	
<b>/</b>	10) Curved surface area of a cylinder of base perimeter 88 cm and heig 6 cm is *	ht1/
	264 sq. cm	
$\cup$		
•	528 sq. cm	<b>✓</b>
•	528 sq. cm 616 sq. cm	<b>✓</b>

11) Which term of the A.P. 21, 18, 15, is 0 *	1/1
10th term	
8th term	<b>✓</b>
9th term	

12) Volume of a cylinder of height 8 cm is 308 <u>cu.cm</u> . What is the diameter of its base? *	1/1
7/2 cm	
7 cm	<b>✓</b>
14 cm	

13) The discriminant of the quadratic equation 3x^2 + 5x - 9 is *	1/1
133	<b>✓</b>
√133	
- 83	

✓ 14) If the 10th term of an A.P. is 38 and its 16th term is 74, then the A.P. is \*1/1 -6, 0, 6, ..... • 16, -10, -4, ...... 16, 10, 4, .....

★ 15) Total surface area of a hemisphere is 462 sq. cm, its volume is *	0/1
718.67 cu. cm	
1437.67 cu cm	×
735.67 cu. cm	
Correct answer	
718.67 cu. cm	
Feedback	
$3\pi r^2 = 462$	
$3 \times 22/7 \times r^2 = 462$	
r^2 = 49 ∴ r = 7	
∴	
$= \frac{2}{3} \times \frac{22}{7} \times 7 \times 7 \times 7$	
= 2156 / 3 = 718.6666	
V = 718.67 cu. cm	

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