The Brigade School-Unit Test:2 (2020-21)

Total points 33/40



Mathematics

Std: 10

Max. Marks: 40

Max. Time: 60 Min.

Email address *

manantbsg@gmail.com

Instructions:

0 of 0 points

- 1. Select your Name / Class& Sec / School correctly
- 2. Attempt all the questions
- 3. Ensure that you have completed and revised your paper before submission.
- 4. You can attempt this paper only once

Name of the Student: *

Manan Y Mehta

Class / Sec: *

10 A

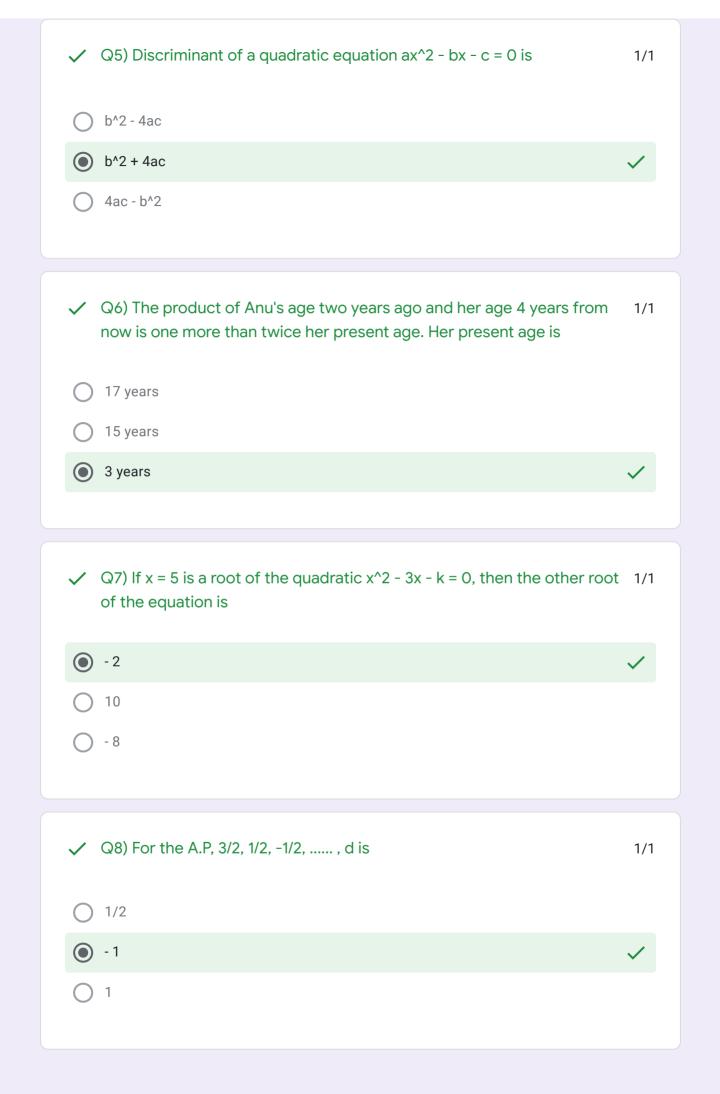
Name of the School: *

TBSG

Choose the correct answer for the following questions:

33 of 40 points

✓ Q1) Number of terms in the A.P. 16, 19, 22,, 148 is 1/1
O 49
O 42
✓ Q2) Given △CAB ∞ △PQR, AB = 9cm and QR = 25cm. The ratio between 1/1 △ABC and △PQR is
3:5
9:25
81:625
Q3) Volume of cylinder with radius r and height h is 1/1
✓ Q3) Volume of cylinder with radius r and height h is1/1 area of base x h
area of base x h
area of base x hπr x h
area of base x hπr x h
 area of base x h πr x h 1/3 πr² x h Q4) The length of the shadow of 10 m high pole when the elevation of
 area of base x h πr x h 1/3 πr² x h Q4) The length of the shadow of 10 m high pole when the elevation of the sun is 30° is
 area of base x h πr x h 1/3 πr² x h Q4) The length of the shadow of 10 m high pole when the elevation of the sun is 30° is 20 m



✓ Q9) The sum of first 24 terms of the A.P. 5, 7, 9, is 1/1
762
O 276
X Q10) The areas of two similar triangles ABC and PQR are 25 sq.cm and 490/1 sq.cm. If QR = 9.8 cm then BC is
9.8 cm
● 49 cm
7 cm
Correct answer
● 7 cm
✓ Q11) Volume of a cone is 154 <u>cu.cm</u> and its height is 12 cm, radius of the 1/1 cone is
7 cm
14 cm

Q12) The solutions of the quadratic equation $3x^2 + 5x - 2 = 0$ are 1/1 3 and - 2 -1/3 and 2 1/3 and - 2

✓ Q13) 1/1

If
$$M = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$$
 then $M + I$ is

 $\begin{bmatrix} 2 & 4 \\ 6 & 8 \end{bmatrix}$

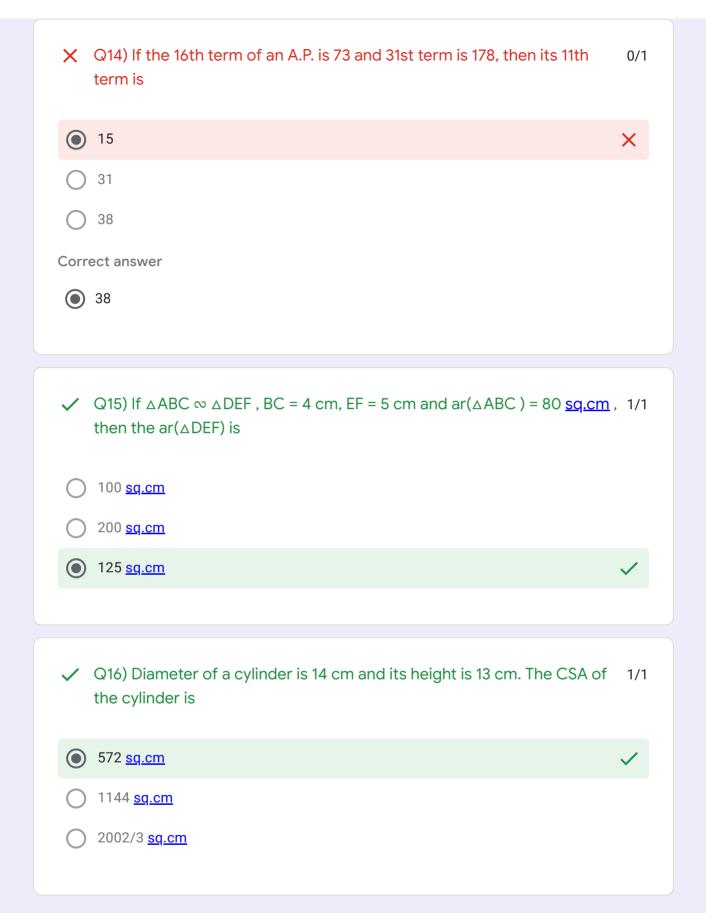
 $\begin{bmatrix} 2 & 2 \\ 3 & 5 \end{bmatrix}$

Option 1

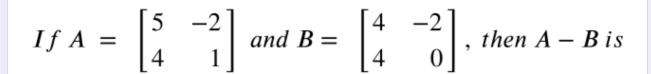
Option 2

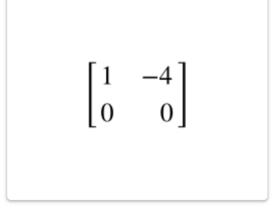
 $\begin{bmatrix} 2 & 2 \\ 3 & 3 \end{bmatrix}$

Option 3



✓ Q17) 1/1

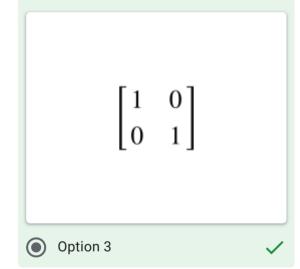




 $\begin{bmatrix} 9 & 0 \\ 0 & 1 \end{bmatrix}$

Option 1

Option 2

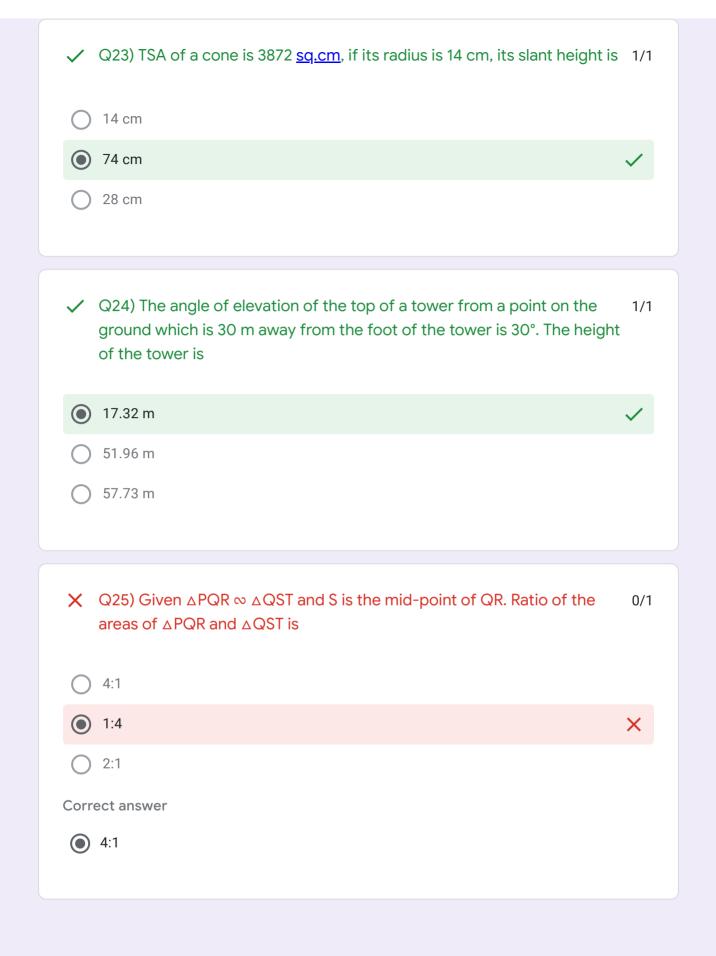


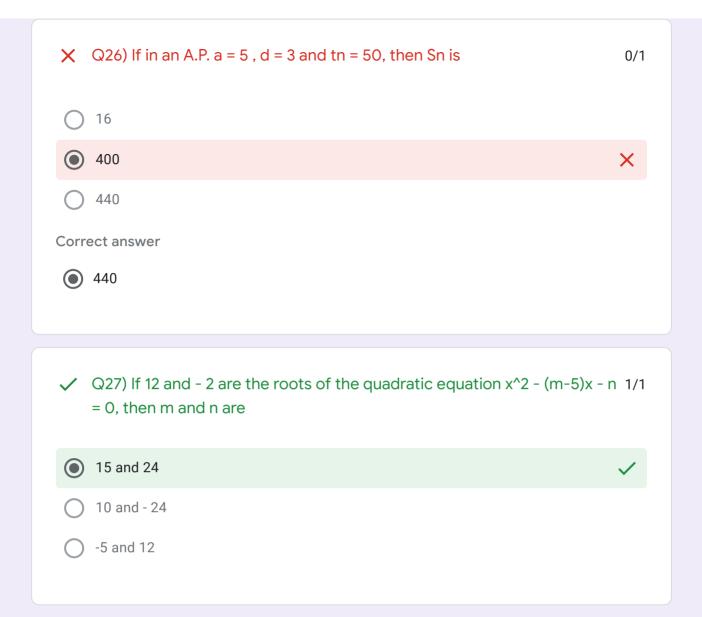
- Q18) Volume of a cylinder is 29568 <u>cu.cm</u>, what will be the volume of a 1/1 cone of height and radius are same as the cylinder
- 9865 <u>cu.cm</u>



9685 <u>cu.cm</u>

✓ Q19) The roots of the equation $x^2 - 18x = 77$ are
11 or 7
11 or -7
none of the above
✓ Q20) If the order of the product of the matrices A and I is 2 x 2, then the 1/1 order of matrix A is
O 2 x 3
② x 2
cannot find
✓ Q21) Which term of the A.P. 8, 13, 18, is 83 1/1
15th
● 16th
O 17th
✓ Q22) If \triangle LMN \otimes \triangle PQR , \angle L = 60° and \angle M = 50°, then the value of \angle R is 1/1
O 50°
● 70°
O 60°





✓ Q28) 1/1

If
$$A = \begin{bmatrix} 4 & 1 \\ 2 & 3 \end{bmatrix}$$
 then A^2 is

 $\begin{bmatrix} 16 & 1 \\ 4 & 9 \end{bmatrix}$

 $\begin{bmatrix} 8 & 2 \\ 4 & 6 \end{bmatrix}$

Option 1

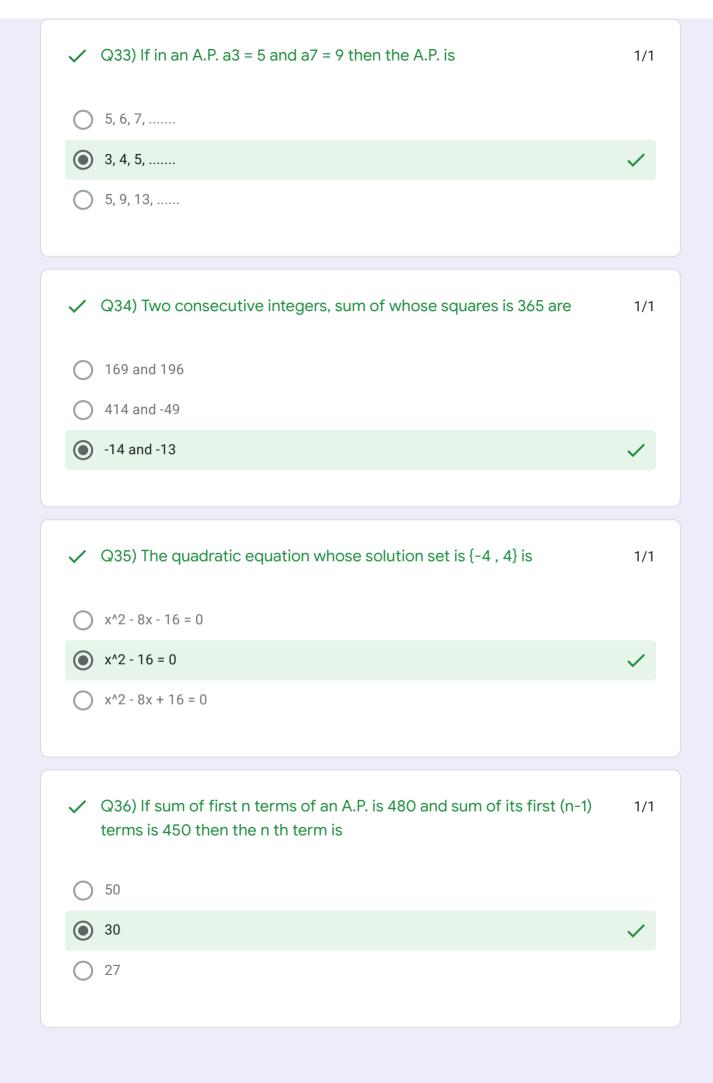
Option 2

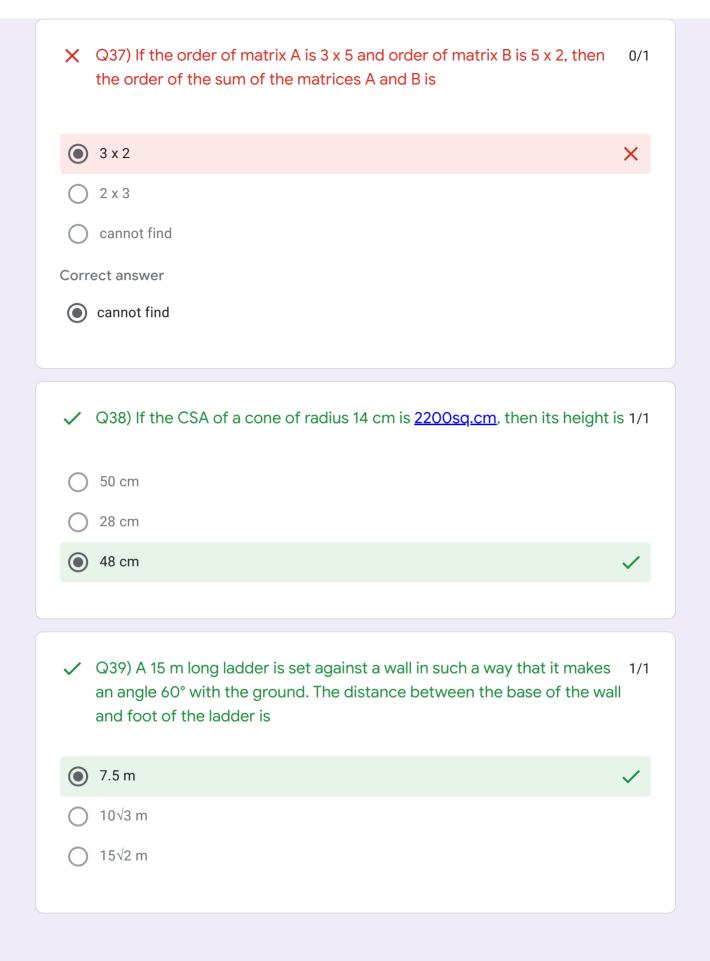
 \checkmark Q29) If a = -1.25 and d= -0.25, then the 5th term of this A.P. is

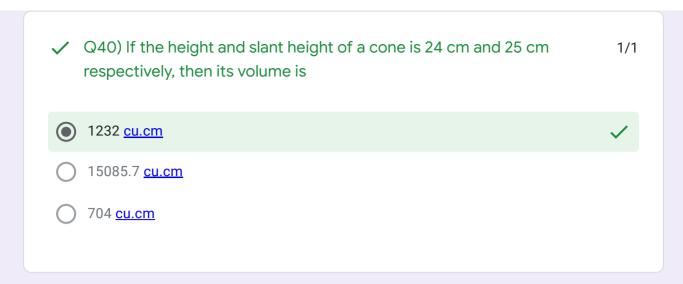
1/1

- -0.25
- -2.25

\checkmark Q30) The roots of the quadratic equation $5x^2 - 6x + 7 = 0$ are	1/1
real and unequal	
real and equal	
o no real roots	✓
X Q31) How many terms of the A.P. 24, 21, 18, must be taken so that their sum is 78	0/1
O 4	
O 13	
either 4 or 13	
X Q32) TSA of a right circular cone of slant height 15.5 m is 209 sq.cm. Radius of this cone is	0/1
7/2 cm	
9 cm	×
7cm	
Correct answer	
● 7/2 cm	







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