

APPENDIX I

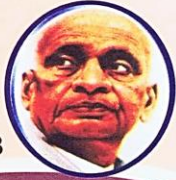
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Charotar English Medium School

(Managed by Charotar Education Society)
D.N. Campus, ANAND-

S.S.C. Index No.: 73- 266 H.S.C. Index No.: 21.126 B

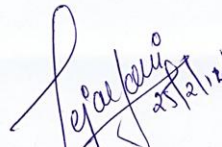


Estd.: 1998



Certificate

This is to certify that Ms. Sunita Jat, M.Ed. scholar has conducted her research activity in this school from 6th to 13th December 2013. She has been quite sincere and punctual in her work.


Principal
Charotar English Medium School,
ANAND.


Supervisor

APPENDIX II

POST TEST

Name of the school :- _____ Total Marks:-40

Std:-_____ Date:-_____ Sub:-_____ Roll No:- _____

➤ Instructions:

Answers all questions .Internal options are given in the same question.

Write your answers according to instructions given below with the questions.

SECTION-A

Q-1.Choose the correct option(1 mark each)

[20]

1) The surface area of a cube of length 2 cm is _____ cm^2 .

- a) 4 b)16 c)24 d)8

2) The surface area of a cuboid of dimensions 5cm x 4cm x 3cm is _____ cm^2 .

- a)60 b)47 c)24 d)94

3) The radius and height of a cylinder are equal to x cm. The total surface area is _____ cm^2

- a) $2\pi x^2$ b) $2\pi x^3$ c) $4\pi x^2$ d) $4\pi x^3$

4) The height of a cylinder is 35 cm & the area of its curved surface 3520 cm^2 .then the radius of the cylinder is _____ cm.

- a) 32 b)16 c)8 d)4

5) The diameter of a cylinder is 7 cm and the area of its curved surface is 1320 cm^2 .The height of the cylinder is _____ cm.

- a) 120 b)60 c)30 d)150

6) The curved surface area of a cone with radius 2 cm and slant height 5cm is _____ cm^2 .

- a) 15π b) 12π c) 18π d) 10π

7) The radius and slant height of a cone are equal to x cm .The total surface area is _____ cm^2

- a) $2\pi x^2$ b) πx^2 c) $2\pi x$ d) πx

8) The ratio of radii of two cones is 2:3 and the ratio of their slant height is 9:4.Then ratio of their curved surface areas is_____.

- a) 3:2 b)1:2 c)1:3 d)2:3

9) The surface area of a sphere is same as the surface area of a right circular cylinder .Whose height and diameter is 12 cm. The radius of sphere is _____ cm.

- a) 3 b)4 c)6 d)12

10) If the surface area of a sphere is 616 cm^2 then its radius will be_____ cm.

- a) 6 b)7 c)8 d)5

11) If the ratio of radii of two sphere is 2:d,then the ratio of their curved surface area is _____.

- a) 8:125 b)4:25 c)25:4 d)125:8

12) The area of curved surface of a sphere and cylinder having equal radii are equal. Then the height of cylinder is _____ times.

- a) 2 b) 4 c) $1/2$ d) $1/4$

13) The ratio of surface area of two cubes is 4:9.The ratio of their volumes is_____.

- a) 2:3 b)64:27 c)27:64 d)8:27

14) Total surface area of a cube is 216 cm^2 .Hence, its volume is _____ cm^3 .

- a) 36 b)216 c)12 d)6

15) The ratio of the volume of a cube and the volume of another cube having the length of side twice the length of the first cube is _____.

- a) 1:2 b)1:4 c)1:8 d)1:6

16) The radius and the height of a cylinder are equal. If its diameter is 10cm, then its volume is _____ cm^3 .

- a) 5π b) 25π c) 125π d) 10π

17) The volume of a cone having radius and height equal to 1cm is _____ cm^3 .

- a) 3π b) $\frac{1}{3}\pi$ c) π d) 2π

18) The radii and height of a cylinder and a cone are equal. The volume of the cone = _____ x the volume of the cylinder.

- a) $\frac{1}{4}$ b) 4 c) 3 d) $\frac{1}{3}$

19) The volume of cone with radius 1 cm and the height thrice the radius is _____ cm^3 .

- a) π b) 3π c) 9π d) 6π

20) The circumference of the base of cylinder is 44 cm and its height 3 cm. Then its curved surface area is _____ cm^2 .

- a) 44 b) 66 c) 132 d) 154

SECTION-B

A) Solve the following (2marks each)

[10]

1) Find the area of the four walls and ceiling of a room, whose length is 10 m, breadth is 8m and height 5m. also find the cost of white washing the walls and ceiling at the rate of Rs15 per m^2 .

2) The curved surface area of cylinder is 3696cm^2 . If the radius of the cylinder is 14 cm, find the height of the cylinder.

3) 50 circular plates each of diameter 14 cm and thickness 0.5 cm are placed one above another to form a right circular cylinder. Find the total surface area.

4) A chalk box measures 10 cm x 8 cm x 6 cm, what will be the volume of packet containing 6 such boxes ?

5) The curved surface area of cylinder 440cm^2 and its height is 7cm .Find the volume of the cylinder.

B) Solve the following (5 marks each)

1) A small indoor greenhouse (herbium) is made entirely of glass panes(including base) held together with tape. It is 40 cm long , 30 cm wide and 25 cm high.

a) What is the area of the glass panes used?

b) Find the cost of glass painting of four walls of the greenhouse. The rate of glass painting is Rs 500 per m^2 .

2) The Internal and the external radii of a hollow hemispherical vessel are 15cm and 16 cm respectively. The cost of painting one cm^2 of the surface is Rs 7 .Find the total cost of painting the vessel all over.(ignore the area of edges).

***** ALL THE BEST *****

APPENDIX III

REACTION SCALE

SR. NO.	STATEMENT	ALWAYS	MOST OFTEN	OFTEN	SOMETIME	NEVER
1	The Colour – Combination of the Programme					
2	The learning of mathematics becomes easy through technology					
3	The explanation given by researcher facilitated understanding					
4	Animation given in this programme was meaningful and helped in understanding the concept.					
5	The instruction given in programme was clear.					
6	There should be more such type of programme to transact mathematical concept.					
7	Learning through this programme was joyful and good experience.					
8	The language used in the programme was intelligible.					
9	The figures used were appropriate and relevant.					
10	There was logical flow throughout the programme.					

APPENDIX – IV

