

22. Find the value of a and b in $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a+b\sqrt{3}$

OR

Simplify $\frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}} + \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$ by rationalizing the denominator.

SECTION – D

Questions 23 to 30 carry 4 marks each.

23. Find the value of $\frac{4}{(216)^{\frac{-2}{3}}} + \frac{1}{(256)^{\frac{-3}{4}}} + \frac{2}{(243)^{\frac{-1}{3}}}$

24. A dome of a building is in the form of a hemisphere. From inside, it was white-washed at the cost of Rs 498.96. If the cost of white-washing is Rs 2.00 per square metre, find the (i) inside surface area of the dome, (ii) volume of the air inside the dome.

OR

Monica has a piece of canvas whose area is 551 m^2 . She uses it to have a conical tent made, with a base radius of 7 m. Assuming that all the stitching margins and the wastage incurred while cutting, amounts to approximately 1 m^2 , find the volume of the tent that can be made with it.

25. Construct a triangle XYZ in which $\angle Y = 30^\circ$, $\angle Z = 90^\circ$ and $XY + YZ + ZX = 11 \text{ cm}$.

26. Show that if the diagonals of a quadrilateral bisect each other at right angles, then it is a rhombus.

OR

Prove that "The line-segment joining the mid-points of any two sides of a triangle is parallel to the third side and is half of it."

27. Plot the points A (4, 4) and (-4, 4) on a graph sheet. Join the lines OA, OB and BA. What figure do you obtain.

28. A man hired an auto for 5 km. The fare was 10 for first km and 3 for every subsequent km. He paid 50, to which the auto driver said that its not the correct amount. The actual fare is somewhat less than that the amount you have paid to me.

(i) Calculate the correct fare.

(ii) Which value is being promoted by the auto driver?

29. The following table gives the life times of 400 neon lamps:

Life time (in hours)	Number of Lamps
300 – 400	14
400 – 500	56
500 – 600	60
600 – 700	86
700 – 800	74
800 – 900	62
900 – 1000	48

(i) Represent the given information with the help of a histogram.

(ii) How many lamps have a life time of more than 700 hours?

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Multimedia Technology and Enhanced Learning Shui-Hua Wang,Yu-Dong Zhang,2022-10-19 This proceedings ICMTEL 2022 constitutes the refereed proceedings of the 4th International Conference on Multimedia Technology and Enhanced Learning ICMTEL 2022 held in April 2022 Due to the COVID 19 pandemic the conference was held virtually The 59 revised full papers have been selected from 188 submissions They were organized in topical sections as follows internet of things and communication education and enterprise machine learning big data and signal processing workshop of data fusion for positioning and navigation and workshop of intelligent systems and control *Mathematical Reviews* ,1994

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