

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  $551 \text{ m}^2$ . 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  $1 \text{ m}^2$ , 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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**Thirumalaisamy P.  
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nuclear transmutation is the conversion of one chemical element or an isotope into another chemical element 1 nuclear transmutation occurs in any process where the number of protons or neutrons in the nucleus of an atom is changed a transmutation can be achieved either by nuclear reactions in which an outside particle reacts with a nucleus

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jan 10 2021 write a balanced equation for each of the following nuclear reactions bismuth 212 decays into polonium 212 beryllium 8 and a positron are produced by the decay of an unstable nucleus neptunium 239 forms from the reaction of uranium 238 with a neutron and then spontaneously converts into plutonium 239