	SECTION –A (MULTIPLE CHOICE QUESTIONS)
1.	(c) class marks of the classes
2.	(a) 5-8
3.	(a) 9:4
4	(c) Assertion (A) is true but Reason (R) is false.
	SECTION – B(2 MARKS QUESTIONS)
5.	Let the slant height be l CSA of cone = 10 l $\pi r l = 10 l$ r = 70/22 d= 2×70/22 = 70/11 = 6.36 cm.

6.	Class size = 42-37 = 5
	 Last class mark = 57
	 Lower limit= class mark – (class size/2)
	         = 57- (5/2)
	         = 54.5
	 Upper limit = class mark + (Class size /2)
	         = 57 + (5/2)
	         = 59.5
	 Last class interval = 54.5-59.5

7.	Slant height= $\sqrt{h^2 + r^2}$ = 20 cm Total surface area = $\pi r(l + r)$
	SECTION – C (3 MARKS QUESTIONS)
8.	As three metallic spheres are melted and recast into a single solid sphere, the sphere formed by recasting these three spheres will have the same volume equal to the sum of the volumes of the three cubes. Let the radius of the resulting sphere be r. Volume of the resulting sphere = Sum of the volumes of three spheres $4/3 \pi r^3 = 4/3 \pi r_1^3 + 4/3 \pi r_2^3 + 4/3 \pi r_3^3$ $r^3 = [r_1^3 + r_2^3 + r_3^3]$ $r^3 = [216 + 512 + 1000]$ $r^3 = 1728$ cm³ r = 12 cm Therefore, the radius of the sphere so formed will be 12 cm.
9.	Let radius = 4x and height= 3x Volume= 2156 cm³

	$1/3 \, \pi r^2 h = 2156$ On solving, $x^3 = 343/8$ $x = 7/2$ radius $= 14$ cm, $h = 10.5$ cm $l = \sqrt{h^2 + r^2} = \sqrt{126.25}$ $l = 17.5$ Curved surface area $= \pi r l$ $= 770$ cm^2
SECTION – D (5 MARKS QUESTIONS)	
10.	Surface area to be painted = CSA of outer hemisphere+ CSA of inner hemisphere+ + Area of ring $= 2 \, \pi R^2 + 2 \, \pi r^2 + \pi \, (R^2 - r^2)$ $= 3 \, \pi R^2 + \pi r^2$ $= \pi \, (3 \, (12.5)^2 + (12)^2)$ $= 1925.78$ cm^2 Cost of painting @ ₹ 0.05 $= 1925.78 \times 0.05$ $= ₹ 96.29$ (approx)