Section A(1x20 = 20)

1.(c)	2.(c)	3.(B)	4(c)	5(d)	6(d)	7(a)	8(b)	9(d)	10(b)
11(d)	12(c)	13 (c)	14 (b)	15(a)	16 (b)	17 (d)	18 (a)	19 (c)	20 (b)
Section B (5 x 2 =10)									

Q21.	Correct value of x=-2,y=5 1 mark ,correct value of m = -1 Or correct valueof zeroes are -5,-2 (1mark),verify the coefficient	1
		1
Q22.	Fig. given ,to prove ,	1/2
	correct proof	1+1/2
Q23.	Correct fig	1/2
	mark and correct proof	1+1/2
	Or	
	Use of correct Bpt ,	1
	correct proof	1
Q24.	$\cos A = \sqrt{7/4}$, $\tan A = 3/\sqrt{7}$	1+1
Q25.	Minor sector =78.5 cm ² ,major sector =235.5 cm ²	1+1

Section C (6 x 3 =18)

Q26.	Let $3+2\sqrt{5}$ is rational number	
	$3+2\sqrt{5} = p/q$	1
	√5=(p – 3q)/2q	1
	Contradicted our assumption and proof	1
Q27.	Correct quadratic equation x ² -2x+1	2
	Solution of equation	1
	Or	
	360/x - 360/(x+5) =1	1
	X ² +5x -1800 =0	1
	Solution of equation and find answer, speed = 40 km/h	1
Q28.	Correct fig mark and correct proof	1+2
Q29.	Correct solution	3
Q30.	Students can use any method correct steps ,use of correct identity ,correct proof	1+1+1
Q31.	P(red marble) =5/17, P(white marble) =8/17, P(not green marble) =13/17	1+1+1
	Section D (4x5=20)	

Section D (4x5=20)

32.	Use of Pythagoras theorem	1
	Make quadratic equation x ² -7x-60=0	2
	Solution of quadratic equation and find base =12 cm, perpendicular =5cm	2
33.	The volume of cone = volume of water in the cone	
	¼πr²h = (200/3)π cm³	1/2
	Now,	
	Total volume of water over flown= (½)×(200/3) π =(50/3) π	
	The volume of lead shot	
	$= (4/3)\pi r^{3}$	
	= (1/6) π	2
	Now,	
	No. of lead shots = Total volume of water over flown/Volume of lead shot	
	= (50/3)π/(½)π	
	= (50/3)×6 = 100 lead shots	2+1/2
	Or	

	Volume of one gulab jamun = volume of cylindrical part +2 x volume of hemispherical part = $\pi r^2 h + 2x \frac{2}{3} \pi r^3 h$ =13.552+11.498=25.05cm ³ Solution of sugar syrup=338.17cm ³	2+1/2 2+1/2
34.	Finding the mode Correct formula Correct solution ,mode =36.8 Finding the mean : Correct formula Correct solution ,mean =35.3	1 1+1/2 1 1+1/2
35.	Correct figure . Given,to prove Correct proof Or Statement of BPT Correct figure . Given,to prove Correct proof	1 1/2 3+1/2 1 1 ½ 2+1/2
	Section Case study	-

Section Case study

36.	(i)A.P 20,19,18	1
	(ii)Number of rows are 16	2
	Or for 209 logs number of rows are 19	2
	(iii)Number of logs in top row = 5	1
37.	(I (2,25)	1
	(ii)(8,20)	1
	(iii)In 5 th line at distance 22.5 m	2
	Or	
	Correct solution	
38.	(1) 30°	1
	(2) Decreases	1
	(3) 45√3 cm	2
	Or	-
	Correct solution	