

MARKING SCHEME
SAMPLE PAPER :SEE- (2020-21)
MATHEMATICS
CLASS-IX

PART-A		
SECTION- I		
1	$P(2) = -12$	1
2	For correct irrational number	1
3	50°	1
4	$3\pi r^2$ or 4:3	1
5	Range = $100 - 46 = 54$	1
6	Degree 4	1
7	Zero of $P(x) = -5/2$	1
8	Angle $ADB = 50^{\circ}$	1
9	$X + y = 90^{\circ}$	1
10	Angle $CAB = 45^{\circ}$ or Angle $AOC = 40^{\circ}$	1
11	120°	1
12	100 cm^2	1
13	Square and Rhombus	$\frac{1}{2} + \frac{1}{2}$
14	For correct construction	1
15	Angle $PQR = 70^{\circ}$ or Angle $ACD = 80^{\circ}$	1
16	Angle $CBA = 50^{\circ}$	1
SECTION-II		
17		
	(I) A- Penatagon	1
	(II) B (-2)	1
	(III) B (4 unit)	1
	(IV) A (0,7)	1
	(V) D (0,4)	1
18		
	(I) B B- type	1
	(II) C (1,2)	1
	(III) B $y - 3x = 0$	1
	(IV) C Many	1
	(V) D 6	1
19		
	(I) A 0.25	1
	(II) D 0.75	1
	(III) C 0	1
	(IV) B 1	1
	(V) C 0.35	1

20																				
(I)	B	Equilateral																		
(II)	A	$9\sqrt{3}$ sq m																		
(III)	B	36 sq m																		
(IV)	C	$144\sqrt{3}$ sq m																		
(V)	C	$6\sqrt{3}$ sq m																		
PART-B																				
SECTION- I																				
21	For each correct R.N																			
22	V= $64-4/3 \times 3.14 \times 8 = 30.51$ cubic cm or l =20 cm , CSA= 753.6 sq cm																			
23	Coreect placement + correct answer (a=2)																			
24	Correct simplification + correct answer ($\sqrt{5}$)																			
25	Correct formula + correct answer h=1 cm																			
26	Correct placement of value+ correct answer ($5/3$)																			
SECTION-II																				
27	Correct formation of solution table+ correct plotting of points+ correct line																			
28	$\frac{6-4\sqrt{3}}{6+4\sqrt{3}}$, correct conjugate ($6-4\sqrt{3}$) +correct rationalization +correct evaluation Answer =$4\sqrt{3} - 7$																			
29	For correct simplification of LHS & RHS & proof Or $(3x+y+z).(9x^2+y^2+z^2-3xy-yz-3zx)$																			
30	For finding correct unknown angles + correct application of property +correct value of y ($y=20^0$)																			
31	Correct figure + correct proof																			
32	Correct formation of angle of triangle+ correct formation of Triangle																			
33	H=3x30 cm=90 cm , r= 14 cm TSA of solid = $2\pi r (h+r)= 9152$ sq cm																			
34	Correct Given + correct congruence rule & correct proof																			
35	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Blood Group</th> <th>Blood Group</th> <th>Blood Group</th> </tr> </thead> <tbody> <tr> <td>A</td> <td> </td> <td>9</td> </tr> <tr> <td>B</td> <td> </td> <td>6</td> </tr> <tr> <td>O</td> <td> </td> <td>12</td> </tr> <tr> <td>AB</td> <td> </td> <td>3</td> </tr> <tr> <td>Total</td> <td></td> <td>30</td> </tr> </tbody> </table> <p>From the above table, we have: The most common blood group is O. The rarest blood group is AB.</p>		Blood Group	Blood Group	Blood Group	A		9	B		6	O		12	AB		3	Total		30
Blood Group	Blood Group	Blood Group																		
A		9																		
B		6																		
O		12																		
AB		3																		
Total		30																		
36	For correct figures(all cases) +correct proof																			

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