**Marking Scheme (Answers)**

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| --- | --- | --- |
| . 1- | Yes, Reason | $\frac{1}{2}$ +$\frac{1}{2}$ Mark |
| . 2- | $$2+\sqrt{3}$$ | 1 Mark |
| 3- | one | 1 Mark |
| 4 | IV | 1 Mark |
| 5 | 0.545 | 1 Mark |
| 6. | 1 :2 | 1 Mark |
| 7. | Multiply by 100 and simplifyAnswer 233/990 | 1Mark1Mark |
| 8. | Put x=-1 and substitute the valueFinding the answer -8 | 1Mark1Mark |
| 9. | Finding radiusTo find volume | 1 Mark1 Mark |
| 10. | . Let the the angles be x and yX+y=1400 ,x-y=20 0 So, 2x=1600 or x=80 0 And y=600 | (1/2) Mark1. Mark

(1/2) Mark |
| 11. | (i) 4/5(ii) 1 | 1 Mark1 Mark |
| 12. | Drawing perpendicular on chord.For correct proof | (1/2) Mark(1/2) Mark |
| 13. | Finding sides a,b,cFinding s and Herons formulaCalculate area correctly. | 1 Mark$\frac{1}{2}$ +$\frac{1}{2}$ Mark1 Mark |
| 14. | Convert in the form of a3-b3Apply identityCorrect answerOR | 1 Mark1 Mark1 Mark1 Mark 2 Marks |
| 15. | Solution x= -6Represent on number lineRepresent on Cartesian plane | 1 Mark1 Mark1 Mark |
| 16. | FigureWriting Euclid’s axiomProving result | (1) Mark½ Mark1 ½ Mark |
| 17. | (i) Plotting the points correctly (2)(ii) AD cuts y-axis at (0,3)CD cuts x-axis at (-3,0) | 2 Marks1 mark |
| 18. | proving $∆$ABD $≅∆$ACD (BY SAS rule )AB=AC (by CPCT) | 2 Marks1 Mark |
| 19. | Given, To Prove, figureProof | 1 ½ Mark1 ½ Marks |
| 20. | Given, To Prove, figureProofOr | 1 ½ Mark1 ½ MarksFigure:1 mark2 marks |
| 21. | Formula of medianX=62 | 1 Mark2 Marks |
| 22. | FigureTo find ∠BCD =800To find ∠ECD.= 300 | 1 Mark1 Mark1 Mark |
| 23. | Find radius of the coneFind height of the coneApply the formula of volume and substitute the correct valuesTo calculate volume correctly | 1 Mark1 Mark1Mark1MarkFigure:1 mark1 mark1 mark |
| 24. |  | 1 mark½ mark½ mark½ mark1 ½ mark |
| 25. | Forming an equation y=8+5(x-1)For y= 5x+3Finding at least two points to draw the graph on above lineCorrect Graph of the line  | 1. Mark

1Mark1Mark1Mark |
| 26. | Multiply by rationalize factor Solve above and writing the answer in the form of a+b$\sqrt{6}$Correct values of a & b. | 1 Mark2 Mark$\frac{1}{2}+\frac{1}{2}$Mark |
| 27 | To find any one factor using remainder theoremDivision process To solve quadratic polynomial To write all the factors correctly OR1. To apply identity correctly

Correct answer 1. To find the value of a+b+c= 0,using identity

To calculate correct answer=3abc,where a=15,b=-8,c=-7 | 1Mark1Mark1 Mark1Mark1Mark1Mark1 Mark1Mark |
| 28. |  PQ || SR and QR is transversal X+280 =650 (alt. int. angles)X= 650- 280 =370 In ∆PQS, by angle sum property of triangle Y= 530 Suitable marks for alternate methods.ORPR > PQ∠Q > ∠R ……(i) ∠QPS= ∠RPS (given) …..(ii)Adding 9i) and (ii)∠Q + ∠QPS >∠R + ∠ RPS ∠PSR > ∠PSQ (Ext. angle prop)  | 1. Marks

2 Marks1. mark

2 marks1 Mark |
| 29. | For correct construction | 4 Marks |
| 30. | Continuous class intervalsFrequency polygon of team AFrequency polygon of team B | 1 Mark1 ½ mark1 ½ mark |