

12. Find the solution set of the equation  $\left| \frac{2x+5}{6} \right| - 3 = 1$
13. If  $\frac{a}{b} = \frac{c}{d} = \frac{e}{f}$ , Prove that  $(a^2 + c^2 + e^2)(b^2 + d^2 + f^2) = (ab + cd + ef)^2$
14. If a perpendicular is drawn from the centre to a chord of a circle, it bisects the chord. Prove.
15. Prove that  $\sin^2\theta + \cos^2\theta = 1$ .
16. Find the solution set of:  $\sqrt{25y-6} = 4\sqrt{y+3}$

### **SECTION 'C' (DETAILED – ANSWER QUESTIONS)**

**NOTE: Attempt 3 questions from this section. Including Q.no.19 which is compulsory. (30)**

17. Factorize the following: (10)  
 (i)  $18x^2 + 9x - 20$  (ii)  $a^4 + 64$   
 (iii)  $a^3 - a^2 + 2$  (iv)  $27x^3 - 1 + 8y^6 + 18xy^2$
18. Find the solution set of the following equations graphically: (Find four ordered pairs for each equation.)  
 $x - 2y = -3$   
 $2x + y = 14$
19. In any correspondence of two right-angles, if their hypotenuses are congruent and one more side of one triangle is congruent to the corresponding side of the other, the two triangles are congruent. Prove it. (10)
- 20.(a) The marks obtained by 84 students in an examination are given below. Find the mean: (05)

Marks	25 – 29	30 – 34	35 – 39	40 – 44	45 – 49
Students	9	18	35	17	5

- (b) Factors with the help of remainder theorem. (05)  
 $x^3 + 3x^2 + 4x - 28$ .
21. Take two points p & q at a distance of 7cm. Draw circles with the radii of 2.8cm, and 1.6cm with centres p & q. Draw direct common tangent to these circles & write steps of construction

## **MATHEMATICS**

**2010**

Time: 30 minutes

Max. Marks: 20

### **SECTION 'A' MULTIPLE CHOICE QUESTION**

1. Choose the correct answer for each from the given options: (20)
- (i)  $(\sqrt{x} + \sqrt{y})(\sqrt{x} - \sqrt{y}) = \text{-----}$

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