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### Section – A

Note:

1. Answer all the questions
2. Each question carries 2 Marks
3. All are very short Answer Type Questions



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1. Transform the equation  $x + y + 1 = 0$  into normal form.
2. Find the equation of the straight line passing through the point (3,-4) and making x, y intercepts which are in the ratio 2:3.
3. IF (3,2,-4), (4,1,1) and (6,2,5) are three vertices of tetrahedron and (4,2,2) is its centroid then find the fourth vertex.
4. Find the angle between the planes  $x + 2y + 2z - 5 = 0$  and  $3x + 3y + 2z - 8 = 0$

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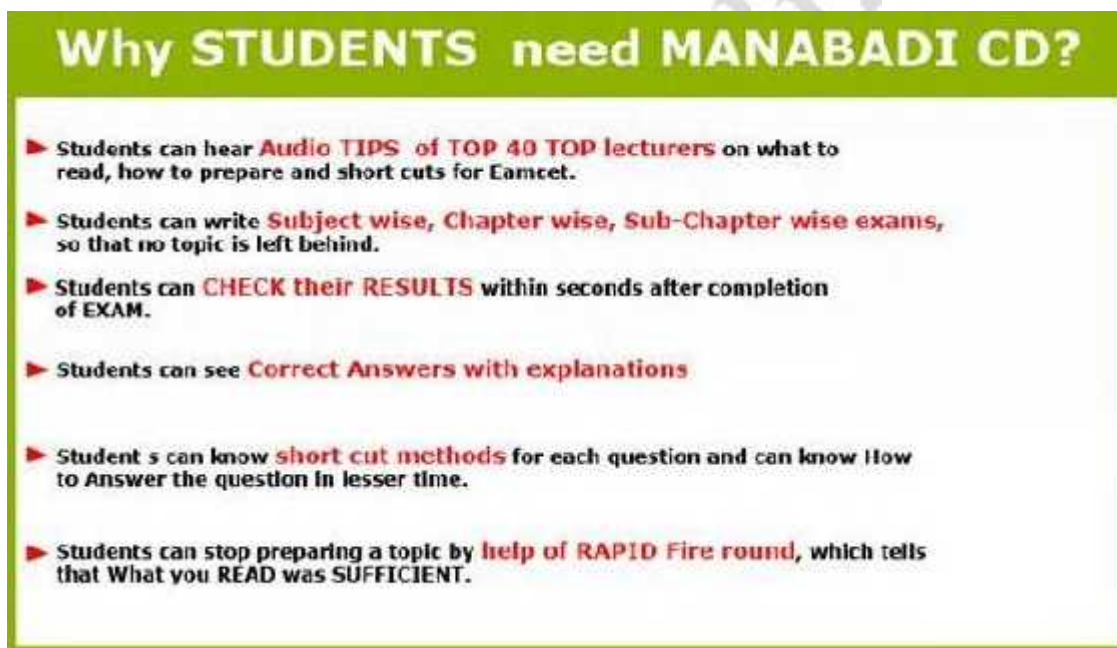
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5. Find  $\lim_{x \rightarrow 0} \left( \frac{3^x - 1}{\sqrt{1+x} - 1} \right)$
6. Find  $\lim_{x \rightarrow 0^+} \left( \frac{2|x|}{x} + x + 1 \right)$
7. Find  $\frac{d}{dx} \tan^{-1} \sqrt{\frac{1 - \cos x}{1 + \cos x}}$
8. Find  $\frac{d}{dx} x^x$
9. Find  $\Delta y, dy$  if  $y = x^x + x$  at  $x=10, \Delta x=0.1$
10. Find the value of 'c' in Rolle's Theorem for the function  $f(x) = x^2 + 4$  on  $[-3,3]$

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## Section – B

Note:

1. Answer any FIVE questions
  2. Each question carries 4 Marks
  3. All are short Answer Type Questions
- 
11. A (2,3) B(-3,4) are two fixed points. Find the equation of locus of 'P' so that area of  $\Delta PAB$  is 8.5 sq. units.
  12. When the axes are shifted to the point (2, 3) then the transformed equation of a curve is  $x^2 + 3xy - 2y^2 + 17x - 7y - 11 = 0$ . Find the original equation of the curve.

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13. A straight line through  $Q(\sqrt{3}, 2)$  makes an angle  $\frac{\pi}{6}$  with the positive direction of x-axis. If the straight intersects the line  $\sqrt{3}x - 4y + 8 = 0$  at 'P', find the distance 'PQ'.

14. Show that  $f(x) = \frac{\cos ax - \cos bx}{x^2}$  if  $x \neq 0$   
 $= \frac{1}{2}(b^2 - a^2)$  if  $x = 0$

Where a, b are real constants, are continuous at  $x=0$

15. Find the derivative of  $\sin 2x$  from the first principles.

16. The radius of a circle is increasing at the rate of 0.7 cm/sec. What is the rate of increase of its: i) Circumference  
ii) Area

17. Show that the length of the subnormal at any point of the curve  $y^2 = 4ax$  is a constant.

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### Section - C

Note:

1. Answer any FIVE questions
2. Each question carries 7 Marks
3. All are Long Answer Type Questions

18. Find the circumcentre of the triangle formed by (1,3), (0,-2) and (-3,1)

19. If the equation  $ax^2 + 2hxy + by^2 = 0$  represents a pair of lines then the combined equation of pair of bisectors of angle between these lines is  $h(x^2 - y^2) = (a - b)xy$ .

20. Find the value of 'K' if the lines joining the origin of the points of intersection of the curve  $2x^2 - 2xy + 3y^2 + 2x - y - 1 = 0$  and the line  $x + 2y = k$  are mutually perpendicular.

21. IF ray makes an angle  $\alpha, \beta, \gamma, \delta$  with four diagonals of a cube then find  $\cos^2 \alpha + \cos^2 \beta + \cos^2 \gamma + \cos^2 \delta$

22. If  $\sqrt{1-x^2} + \sqrt{1-y^2} = a(x-y)$ . Show that  $\frac{dy}{dx} = \sqrt{\frac{1-y^2}{1-x^2}}$

23. If the tangent at any point 'P' on the curve  $x^m y^n = a^{m+n}$  meets the co-ordinate axis in A and B then show that AP:PB is constant.

24. Show that when the curve & surface of right circular cylinder in a sphere of radius 'r' is maximum, then the height of the cylinder is  $\sqrt{2} r$ .