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Intermediate-2012 MATHS IB Guess Paper

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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

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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5. Find $\text{Lt}_{x\to 0}\left(\frac{3^x-1}{\sqrt{1+x}-1}\right)$
6. Find $\text{Lt}_{x\to 0+}\left(\frac{2|x|}{x}+x+1\right)$
7. Find $\frac{d}{dx}\tan^{-1}\sqrt{\frac{1-\cos x}{1+\cos x}}$
8. Find $\frac{d}{dx}x^x$
9. Find Δy, dy if $y = x^x + x$ at x=10, Δx=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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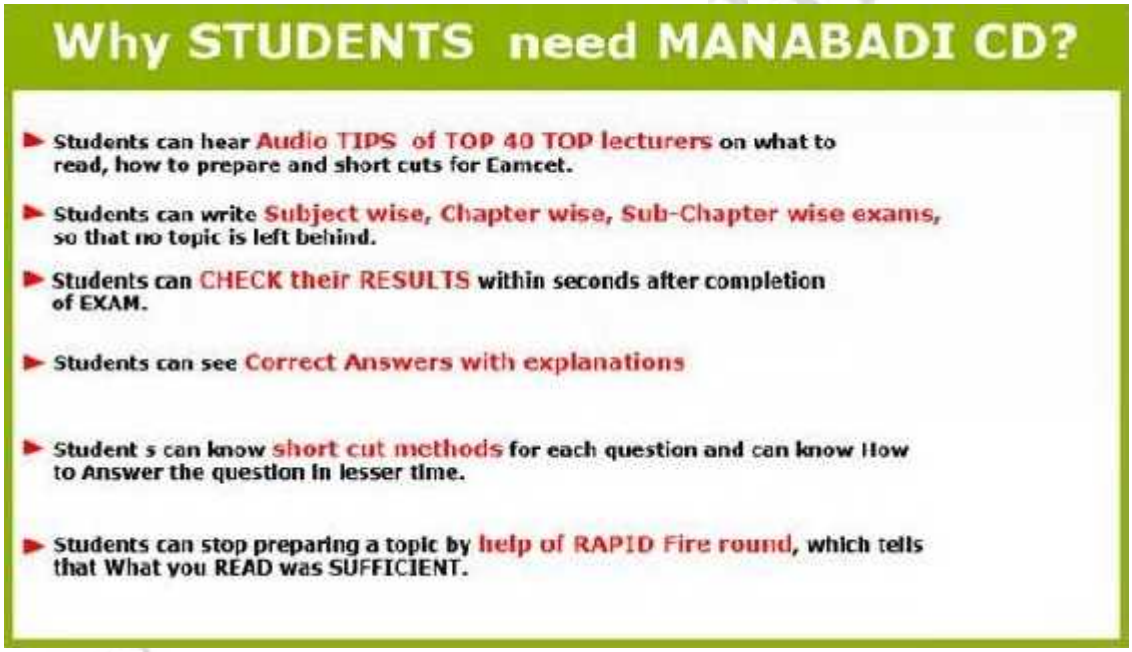

Section – B

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 ΔPAB 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≠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 α, β, γ, δ 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.

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