A COURSE OF MATHEMATICS (PAPER B

BHOURS TIME ALLOWED:-MAXIMUM INTARKS

(b)

Attempt SIX questions in all by selecting three questions from each section.

Section I

Q No. 1(a)	Seprate Into real and imaginary parts tan-1(x + iy).	(8)
(b)	If $tan(\alpha + i\beta) = x + iy$; show that $x^2 + y^2 + 2x \cot 2\alpha = 1$.	(8)
O No 2(a)	find the equation of plane passing through the line of intersection of the planes	(8)
4x - 3y + z -	-4 = 0 and $2x + 2y + 3z - 6 = 0$ and perpendicular to the plane $6x - 2y + 3z = 8$.	Feet.
(b)	Derive the equation of a plane in normal form.	(8)

Q No. 3(a)

Obtained intercepts and traces of the plane which is at a distance 4 from the origin and (b) which has normal components (1, 2, -2).

Find the equation of the two lines passing through the point (5, -3, 2) and has direction Q No. 4(a) (8) angles α= π/3, β= π/4.

Show that the lines x + 3y - z + 6 = 0, 2y + z = 3 and $\frac{x-3}{2} = \frac{y}{z} = \frac{1-2}{z}$ are (b) perpendicular to each other.

Find the equation of the sphere if it passes through the points (-3, 6, 0), (-2, -5, -1), (1, 4, 2) Q No. 5(a) and the center lies on the hypotenuse thus formed.

Find the equation of the surface generated by revolution of $x^2 + z^2 = 1$, y = 0 about (b) The z-axis. (8)The x-axis

(a) Find the pedal equation of the parabola $y^2 = 4a(x + a)$. (9)

Q No. 6(a) Plot the equation $x^2 - 3xy + y^2 + 10x - 10y + 21 = 0$. (b)

SECTION II

Find the area of the surface generated by rotating one arc of the sine curve about its axis. Q No. 7(a)

Find the volume of a solid by rotating the orgion bounded by the curves $y = x^2$, x = a(b) and the tangent to y = x at x = 1 about the y-axis. (9,8)

Find the volume of the right circular cone of height 10 and base diameter 20. (8)Q Nq. 8(a)

Prove that every normal to a sphere passes through its center. (9)(b)

Find the area bounded by $y = 3x, y = x^2, x = 1, x = 3$. (8) Q No. 9(a) (8)State and prove EULER'S theorem.

Solve differential equation $x = x + (1 + x \cot x)y = x$. (8)C No 10(a)

Solve differential equation $p = tan(x - \frac{p}{1 + r^2})$ (8) (b)

Find the general solution of the differential equation $(D^2 + 4)v = 4(\sin x)^2$. (8) Q No 11(a)

Find the differential equation of all hyperbola in standard form. (9) (b) Find the orthogonal trajectories of the curves $r = a(1 + \sin \theta)$. (8)

Q No. 12(a) Solve $4xp^2 = (3x - 1)^2$ and find the singular solution, if any. (9) (b)

Mathematics Paper 2015 Supplementary

Judd E. Hollander

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