

(Two papers due to re-exam) 14/06/2012 original paper

(3 Hours)

GN-1018

[Total Marks 100]

N.B.: 1. Question No. 1 is compulsory.

2. Attempt any four questions from remaining six questions.

3. Draw sketches wherever necessary.

Q.1.a. Evaluate : $\int_0^1 (x \log x)^4 dx$ (5)

b. Solve : $\frac{dr}{d\theta} = r \tan \theta \rightarrow \frac{r^2}{\cos 2\theta}$ (5)

c. Evaluate : $\int_0^{2\pi} \int_0^{\sqrt{x^2+y^2+a^2}} \frac{x dy dz}{y^2 + x^2 + a^2}$ (5)

d. Find by double integration the area enclosed by $y^2 = x^3$ and $y = x$ (5)

Q.2.a. Solve $(4xy + 3y^2 - x) dx + x(x + 2y) dy = 0$ (6)

b. Change the order of integration $\int_0^a \int_{\sqrt{a^2-x^2}}^{2-a-x} f(x,y) dx dy$ (6)

c. Prove that $\int_0^\infty \frac{dx}{(e^x + e^{-x})^2} = \frac{1}{4} \beta\left(\frac{\pi}{2}, \frac{\pi}{2}\right)$ and hence evaluate $\int_0^\infty \operatorname{sech}^2 x dx$. (8)

Q.3.a. Using Euler's method find approximate value of y at $x=1$ in five steps (6)

taking $h=0.2$ given $\frac{dy}{dx} = x + y$ & $y(0) = 1$.

b. Evaluate $\int_0^1 \int_0^x \int_0^{2x-x^2} e^{x^2+y+z} dz dy dx$ (6)

c. Evaluate by changing to polar coordinates $\int_0^1 \int_{\sqrt{x-x^2}}^{\sqrt{2x-x^2}} (x^2 + y^2) dy dx$ (8)

Q.4.a. Show that $\int_0^\infty \frac{\tan^{-1} x}{x(1+x^2)} dx = \frac{\pi}{2} \log(1+a)$ (6)

b. Evaluate $\int_R \int \frac{y dx dy}{(a-x)\sqrt{a^2-x^2}}$ where R is the region bounded by $y^2 = ax$ & $y = x$. (6)

c. Solve by the method of variation of parameters $(D^2 - 2D + 2)y' = e^x \tan x$ (8)

Q.5.a. Solve $(D^2 + 2)y = e^x \cos x + x^2 e^{2x}$ (6)

b. Using Taylor's Method Solve $\frac{dy}{dx} = x^2 - y$ with $y(0)=1$. Also find y at $x = 0.1$ (6)

c. Find the Volume of the Tetrahedron bounded by the planes $x = 0, y = 0, z = 0$ & $x+y+z = a$ (8)

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Jianjun Gao



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