

(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 : $\frac{dr}{d\theta} = r \tan \theta \rightarrow \frac{r^2}{r \cos \theta}$ (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 $\int_0^a \int_{\sqrt{a^2-x^2}}^{2-a} f(x,y) dx dy$ (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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Jain,Margarita N. Favorskaya,Ilia S. Nikitin,Dmitry L. Reviznikov,2021-03-14 This book presents best selected research papers presented at the Thirteenth International Conference on Applied Mathematics and Mechanics in the Aerospace Industry AMMAI 2020 held from September 6 to September 13 2020 at the Alushta Health and Educational Center The Republic of Crimea The book is dedicated to solving actual problems of applied mechanics using modern computer technology including smart paradigms Physical and mathematical models numerical methods computational algorithms and software complexes are discussed which allow to carry out high precision mathematical modeling in fluid gas and plasma mechanics in general mechanics deformable solid mechanics in strength destruction and safety of structures etc Technologies and software systems that provide effective solutions to the problems at various multi scale levels are considered Special attention is paid to the training of highly qualified specialists for the aviation and space industry The book is recommended for specialists in the field of applied mathematics and mechanics mathematical modeling information technologies and developers of modern applied software systems

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