B.Sc.IT: Semester – II [Mathematics – II]
Question Paper (Sep – 2013) [Old Course]

- Komal T.

Time: 3 Hours

Total Marks: 100

N.B.: (1) Questions No. 1 is Compulsory.
(2) Attempt any four questions from Question Nos. 2 to 7.
(3) Figure to the right indicate Full Marks.

Q.1 Attempt The Following Question: (20 Marks)

(A) Find Laplace Transform of the following: (10)
   (i) $t^2 - 2t + 3$
   (ii) $\cos 5t \sin 3t$

(B) Prove that $\int_0^{\infty} \frac{e^{-at} - e^{-bt}}{t} dx = \log\left(\frac{b}{a}\right)$ (10)

Q.2 Attempt The Following Question: (20 Marks)

(A) Express $\sin\theta$ and $\cos\theta$ in terms of $\sin\theta$ and $\cos\theta$ (10)

(B) Using De Moivre's Theorem prove that $\sin 7\theta = 7\sin\theta - 56\sin^3\theta + 112\sin^5\theta - 64\sin^5\theta - 64\sin^7\theta$ (10)

Q.3 Attempt The Following Question: (20 Marks)

(A) Evaluate $\int_0^2 \int_0^{\sqrt{a-x}} (x + y) \, dy \, dx$ (10)

(B) Evaluate $\int_0^1 \int_x^a \frac{1}{\sqrt{x^2 + y^2}} \, dx \, dy$ (10)

Q.4 Attempt The Following Question: (20 Marks)

(A) Evaluate $\frac{(1+iy)^3}{(i^2-1)^{14}}$ (10)

(B) Obtain the Fourier Series for $f(x) = e^{-x}$ in the interval $0 < x < 2\Pi$ (10)

Q.5 Attempt The Following Question: (20 Marks)

(A) Evaluate $\int_0^{\infty} e^{-4x^2} dx$ (10)

(B) Find the volume of solid S, where S is the interior of sphere $x^2 + y^2 + z^2 = a^2$ (10)

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put together a more and more coherent picture of how numerical competencies develop and how this development is associated with neural changes as well In the end this knowledge might also lead to a better understanding of the reasons for atypical numerical development which often has grieve consequences for those who suffer from developmental dyscalculia or mathematics learning disabilities Therefore this Research Topic deals with all aspects of numerical development findings from behavioural performance to underlying neural substrates from cross sectional to longitudinal evaluations from healthy to clinical populations To this end we included empirical contributions using different experimental methodologies but also theoretical contributions review articles or opinion papers   A scholarly inquiry into disciplinary practices in educational institutions Connie B. Zulu,Izak J. Oosthuizen,Charl C. Wolhuter,Corene de Wet,Rika Joubert,Ansie E. Kitching,Michael L. Marumo,Zahraa McDonald,Nicholus T. Mollo,Louis J. Oosthuizen,Ferdinand J. Potgieter,Bianke van Rooyen,Marius H. Smit,Amos T. Thebenyane,Andre van der Bijl,Johannes (Hannes) L. van der Walt,2019-12-12 This book is a collection of chapters based on original research dealing with issues of discipline and disciplinary practices in educational institutions The aim of the book is to provide a scholarly and scientific perspective on the current state of discipline and disciplinary practices in schools and tertiary education settings The issue of discipline is investigated from diverse paradigmatic and methodological perspectives presenting empirical as well as also philosophical research The empirical perspective includes quantitative positivistic qualitative interpretive and mixed methods pragmatic designs and worldviews This book offers a ground breaking contribution to the field of learner and student discipline with insights into disciplinary practices and issues in educational institutions not hitherto researched such as Technical Vocational Education and Training colleges and universities   **Growing Up With Tanzania** F. Hirji,2014-07-17 In Growing up with Tanzania Karim Hirji a renowned Professor of Medical Statistics and Fellow of the Tanzania Academy of Science presents a multi faceted evocative portrait of his joyous but conflicted passage to adulthood during colonial and early Uhuru Tanzania His smooth style engages the reader with absorbing true tales cultural currents critical commentary and progressive possibilities By vibrantly contrasting the hope filled sixties with the cynical modern era he also lays bare the paradoxes of personal life and society past and present

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