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

- Kamal 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 $\int_0^{\infty} \frac{e^{-ax} - e^{-bx}}{x} dx = \log\left(\frac{b}{a}\right)$ (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 $\sin 7\theta = 7 \sin \theta - 56 \sin^3 \theta + 112 \sin^5 \theta - 64 \sin^7 \theta$ (10)

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

- (A) Evaluate $\int_0^2 \int_0^{2-x} (x+y) dy dx$ (10)
(B) Evaluate $\int_0^1 \int_{x^2}^x \frac{1}{x^2+y^2} dx dy$ (10)

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

- (A) Evaluate $\frac{(1+i\sqrt{2})^{1/2}}{(1-i)^{1/2}}$ (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)

Mathematics Paperterm4 2013

Olivier Gueant



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Simone Dunekacke, Aljoscha Jegodtka, Thomas Koinzer, Katja Eilerts, Lars Jenßen, 2021-09-30 This edited volume presents cutting edge research on the professional competence of early childhood mathematics teachers It considers professional knowledge motivational affective dispositions skills and performance in early childhood mathematics and outlines future fields of research in this area The book argues that it is essential for early childhood teachers to prepare a high quality learning environment and that mathematical competence is highly relevant for children s individual development Bringing together research from mathematics education educational science and psychology it integrates international perspectives and considers the contextual factors that affect the development of children s mathematical competence within Early Childhood Education and Care ECEC settings The book uses a model to describe professional teacher competence that considers the dispositions of early childhood teachers situation specific skills of early childhood teachers and the performance of early childhood teachers The book is the first of its kind to give a comprehensive overview and allows for integrative perspectives and interdisciplinary understanding regarding pre and in service ECEC teachers professional competence in the domain of mathematics It will be essential reading for academics researchers and students of early childhood education mathematics education and teacher education Chapters 5 6 and 13 of this book are freely available as downloadable Open Access PDFs at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

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both mathematics and mathematics education

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Achieving Effective Integrated E-Care Beyond the Silos Meyer, Ingo, Müller, Sonja, Kubitschke,

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The Role and Importance of Mathematics in Innovation Bob

Anderssen, Philip Broadbridge, Yasuhide Fukumoto, Naoyuki Kamiyama, Yoshihiro Mizoguchi, Konrad Polthier, Osamu

Saeki, 2016-08-09 This book is a collection of papers presented at the Forum Math for Industry 2015 for which the unifying theme was The Role and Importance of Mathematics in Innovation held at the Institute of Mathematics for Industry Kyushu University October 26 30 2015 The theme highlights two key roles that mathematics plays in supporting innovation in science technology and daily life namely needs based and idea based For the former mathematics assists with sorting through the possibilities and putting matters on a more rigorous foundation and for the latter mathematical models of the possible implementations play a key role The book gives excellent examples of how mathematics assists with stimulating innovation and thereby highlights the importance and relevance of the concept Mathematics_FOR_Industry The contents of this volume address productive and successful interaction between industry and mathematicians as well as the cross fertilization and collaboration that result when mathematics is involved with the advancement of science and technology

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