

## II P.U.C PREPARATORY EXAM JAN/FEB - 2023

Time: 3 hours 15 minute

MATHEMATICS (35)

Max. Marks: 100

### Instructions:

- 1) The question paper has five parts namely A, B, C, D and E. Answer all the parts.
- 2) Part A has 10 Multiple choice questions, 5 Fill in the blanks and 5 Very Short Answer questions of 1 mark each.
- 3) Part A should be answered continuously at one or two pages of Answer sheet and Only first answer is considered for the marks in subsection I and II of Part A.
- 4) Use the graph sheet for question on linear programming in PART E.

### PART - A

#### I Answer ALL the Multiple Choice Questions

10 × 1 = 10

1. Let R be a relation in the set N given by  $R = \{(a,b) : a-b=2, b>6\}$ . Choose the correct answer  
(A)  $(2,4) \in R$  (B)  $(3,8) \in R$  (C)  $(6,8) \in R$  (D)  $(8,7) \in R$
2. If  $\sin^{-1} x = y$ , then  
(A)  $0 \leq y \leq \pi$  (B)  $-\frac{\pi}{2} \leq y \leq \frac{\pi}{2}$  (C)  $0 < y < \pi$  (D)  $-\frac{\pi}{2} < y < \frac{\pi}{2}$
3. The number of possible matrices of order  $3 \times 3$  with each entry 0 or 1 is  
(A) 27 (B) 18 (C) 81 (D) 512
4. Let A be a non singular square matrix of order  $3 \times 3$ , then  $|\text{adj } A|$  is equal to  
(A)  $|A|$  (B)  $|A|^2$  (C)  $|A|^3$  (D)  $3|A|$
5. The function  $f(x) = [x]$ , where  $[x]$  denotes the greatest integer function is continuous at  
(A) 4 (B) -2 (C) 1 (D) 1.5
6.  $\int \frac{\sin^2 x - \cos^2 x}{\sin^2 x \cos^2 x} dx$  is equal to  
(A)  $\tan x + \cot x + C$  (B)  $\tan x - \cot x + C$  (C)  $\tan x \cot x + C$  (D)  $\tan x - \cot 2x + C$
7. If  $\theta$  is the angle between any two vectors  $\vec{a}$  and  $\vec{b}$ , then  $|\vec{a} \cdot \vec{b}| = |\vec{a} \times \vec{b}|$  when  $\theta$  is equal to  
(A) 0 (B)  $\frac{\pi}{2}$  (C)  $\frac{\pi}{4}$  (D)  $\pi$
8. A line makes equal angles with co-ordinate axes. Direction cosines of this line are  
(A)  $\pm(1,1,1)$  (B)  $\pm(\frac{1}{\sqrt{3}}, \frac{1}{\sqrt{3}}, \frac{1}{\sqrt{3}})$  (C)  $\pm(\frac{1}{2}, \frac{1}{2}, \frac{1}{2})$  (D)  $\pm(\frac{1}{\sqrt{2}}, \frac{-1}{\sqrt{2}}, \frac{-1}{\sqrt{2}})$
9. Corner points of the feasible region determined by the system of constraints are  $(0,3)$ ,  $(1,1)$  and  $(3,0)$ . Let  $Z = px + qy$ , where  $p, q > 0$ . Condition on  $p$  and  $q$  so that the minimum of  $Z$  occurs at  $(3,0)$  and  $(1,1)$  is  
(A)  $p = 2q$  (B)  $p = \frac{q}{2}$  (C)  $p = 3q$  (D)  $p = q$
10. If  $P(A) = 0.8$ ,  $P(B) = 0.5$  and  $P(B|A) = 0.4$ , then  $P(A \cap B)$  is equal to  
(A) 0.12 (B) 0.20 (C) 0.32 (D) 0.9

# Preparatory Exam Question Papers

**United States. President**



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*A Compilation of the Messages and Papers of the President, 1789-1908 United States. President, James Daniel Richardson, 1909* **TOPCIMA Paper T4 TEST OF PROFESSIONAL COMPETENCE IN MANAGEMENT ACCOUNTING Study Text for 2011-2012** BPP Learning Media, 2011-08-01 BPP Learning Media's Study Text for TOPCIMA will help you pass CIMA's Test of Professional Competence in Management Accounting case study exam. In preparing the Text we have taken note of past papers questions put to the examiners the assessment methodology and previous case study exams. The key to the case is to prepare and to practise. Prepare by working through this Study Text before CIMA issues the pre seen data. Later practise with the BPP Learning Media TOPCIMA Toolkit that is written around the real pre seen data. The Toolkit contains analyses and exercises to get you thinking as well as a number of mock unseen to get you ready for the real thing. *The Routledge Handbook of English Language Education in Bangladesh* Shaila Sultana, M. Moninoor Roshid, Md. Zulfeqar Haider, Mian Md. Naushaad Kabir, Mahmud Hasan Khan, 2020-12-17 This Handbook is a comprehensive overview of English language education in Bangladesh. Presenting descriptive theoretical and empirical chapters as well as case studies this Handbook on the one hand provides a comprehensive view of the English language teaching and learning scenario in Bangladesh and on the other hand comes up with suggestions for possible decolonisation and de-elitisation of English in Bangladesh. The Handbook explores a wide range of diverse endogenous and exogenous topics all related to English language teaching and learning in Bangladesh and acquaints readers with different perspectives operating from the macro to the micro levels. The theoretical frameworks used are drawn from applied linguistics, education, sociology, political science, critical geography, cultural studies, psychology and economics. The chapters examine how much generalisability the theories have for the context of Bangladesh and how the empirical data can be interpreted through different theoretical lenses. There are six sections in the Handbook covering different dynamics of English language education practices in Bangladesh from history, policy and practice to assessment, pedagogy and identity. It is an invaluable reference source for students, researchers and policy makers interested in English language, ELT, TESOL and applied linguistics. **Guru Pulokesh Roy, 2017-08-10** With the help of this book Pulokesh Roy has tried to highlight few real facts about him, his struggles to become a successful teacher, actual teacher's life and the problems that he/she faces in their daily lives. He has taken his own example while describing the above points for presenting the accurate and real live view of a teacher. This book will definitely take the readers to another world highlighting the endless efforts done by a teacher for their students and this effort continues throughout the entire life of a teacher. Catalogue of Government Publications Ireland. Stationery Office, 1935 **Consolidated List of Government Publications** Ireland. Stationery Office, 1929 *Quality in Higher Education* Dr. P. S. Aithal, 2017-07-14 1

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The Journal of Education ,1897 Report of the President of Harvard College and Reports of Departments Harvard University,1905 Publications of the New England Modern Language Association ,1905 Examination Bulletin ,1897

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**American Annals of the Deaf** ,1896 *American Annals of the Deaf and Dumb* ,1896 *Princeton Alumni Weekly* ,1909 **Gandhi Before India** Ramachandra Guha,2014-04-15 Here is the first volume of a magisterial biography of Mohandas Gandhi that gives us the most illuminating portrait we have had of the life the work and the historical context of one of the most abidingly influential and controversial men in modern history Ramachandra Guha hailed by Time as Indian democracy s preeminent chronicler takes us from Gandhi s birth in 1869 through his upbringing in Gujarat his two years as a student in London and his two decades as a lawyer and community organizer in South Africa Guha has uncovered myriad previously untapped documents including private papers of Gandhi s contemporaries and co workers contemporary newspapers and court documents the writings of Gandhi s children and secret files kept by British Empire functionaries Using this wealth of material in an exuberant brilliantly nuanced and detailed narrative Guha describes the social political and personal worlds inside of which Gandhi began the journey that would earn him the honorific Mahatma Great Soul And more clearly than ever before he elucidates how Gandhi s work in South Africa far from being a mere prelude to his accomplishments in India was profoundly influential in his evolution as a family man political thinker social reformer and ultimately beloved leader In 1893 when Gandhi set sail for South Africa he was a twenty three year old lawyer who had failed to establish himself in India In this remarkable biography the author makes clear the fundamental ways in which Gandhi s ideas were shaped before his return to India in 1915 It was during his years in England and South Africa Guha shows us that Gandhi came to understand the nature of imperialism and racism and in South Africa that he forged the philosophy and techniques that would undermine and eventually overthrow the British Raj Gandhi Before India gives us equally vivid portraits of the man and the world he lived in a world of sharp contrasts among the coastal culture of his birthplace High Victorian London and colonial South Africa It explores in abundant detail Gandhi s experiments with dissident cults such as the Tolstoyans his friendships with radical Jews heterodox Christians and devout Muslims his enmities and rivalries and his often overlooked failures as a husband and father It tells the dramatic profoundly moving story of how Gandhi inspired the devotion of thousands of followers in South Africa as he mobilized a cross class and inter religious coalition pledged to non

violence in their battle against a brutally racist regime Researched with unequalled depth and breadth and written with extraordinary grace and clarity Gandhi Before India is on every level fully commensurate with its subject It will radically alter our understanding and appreciation of twentieth century India s greatest man

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