

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 3×3 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 3×3 , then $|adj A|$ 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 θ is the angle between any two vectors $\vec{a}$ and $\vec{b}$, then $|\vec{a} \cdot \vec{b}| = |\vec{a} \times \vec{b}|$ when θ is equal to
(A) 0 (B) $\frac{\pi}{2}$ (C) $\frac{\pi}{4}$ (D) π
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) $\pm(\frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ (D) $\pm(\frac{1}{\sqrt{3}}, \frac{-1}{\sqrt{3}}, \frac{-1}{\sqrt{3}})$
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

Mathematics Preparatory Exam Paper 2014

**Chan Yuen Fook, Gurnam Kaur
Sidhu, Suthagar Narasuman, Lee Lai
Fong, Shireena Basree Abdul Rahman**

Mathematics Preparatory Exam Paper 2014:

7th International Conference on University Learning and Teaching (InCULT 2014) Proceedings Chan Yuen Fook, Gurnam Kaur Sidhu, Suthagar Narasuman, Lee Lai Fong, Shireena Basree Abdul Rahman, 2015-12-30 The book comprises papers presented at the 7th International Conference on University Learning and Teaching InCULT 2014 which was hosted by the Asian Centre for Research on University Learning and Teaching ACRULeT located at the Faculty of Education Universiti Teknologi MARA Shah Alam Malaysia It was co hosted by the University of Hertfordshire UK the University of South Australia the University of Ohio USA Taylor s University Malaysia and the Training Academy for Higher Education AKEPT Ministry of Education Malaysia A total of 165 papers were presented by speakers from around the world based on the theme Educate to Innovate in the 21st Century The papers in this timely book cover the latest developments issues and concerns in the field of teaching and learning and provide a valuable reference resource on university teaching and learning for lecturers educators researchers and policy makers Up Your Score, 2013-2014 edition Larry Berger, Michael Colton, JaJa Liao, Manek Mistry, Paul Rossi, 2012-07-17 Written for students by students Up Your Score is the book kids will actually want to use to help them ace the test Its four authors and guest editor who each achieved perfect or close to perfect scores and got into the college of their choice offer expert advice and proven strategies laced with an edgy wit Kept sharply up to date by the guest editor Up Your Score is a complement and a reality check to the institutional reviews by Princeton and Kaplan It s the book that injects attitude into the dry business of test prep fending off the anxiety of the SAT with peer humor A rich and lively vocabulary section is filled with examples that kids will relate to The math section delves into the eight core ways the test covers the subject plus offers problem solving techniques The writing section addresses the 13 most important grammar rules to know And Up Your Score shows how to psych out the test How to think like the SAT How to prepare the essay in advance The best ways to fill in answer circles and other strategies to save precious minutes Plus tips for maintaining concentration why it s always better to guess than to leave a question unanswered what to wear on test day and a recipe for energy boosting Sweet Tasty 800 Bars Mathematics Today Monthly Magazine (December edition) 2023 for JEE, CBSE, OLYMPIADS and other competitive exams MTG Learning Media, Drive through your Mathematical phobia with MTG s Mathematics Today It is the leading monthly magazine beneficial for the preparation of Olympiads CBSE Boards JEE Main Advanced and other Regional Engineering Examinations It consists of a collection of questions prepared by experienced Academicians IITians **The Mathematics Education for the Future Project - Proceedings of the 14th International Conference** Alan Rogerson, Janina Morska, 2017-07-01 This volume contains the papers presented at the International Conference on Challenges in Mathematics Education for the Next Decade held from September 10 15 2017 in Balatonf red Hungary The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986 *Physics Today Monthly Magazine (December edition) 2023*

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