

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 $|\text{adj } A|$ 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 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) $\pm(\frac{1}{2}, \frac{1}{2}, \frac{1}{2})$ (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

Pulokesh Roy



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Compilation of the Messages and Papers of the President, 1789-1908 United States. President, James Daniel
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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 unseens 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 eliticisation 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 Catalogue of Government Publications Ireland.
Stationery Office, 1935 **Guru** Pulokesh Roy, 2017-08-10 With the help of this book Pulokesh Roy have 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 an another world highlighting the endless efforts done by a
teacher for their students and this effort continues throughout the entire life of a teacher Consolidated List of
Government Publications Ireland. Stationery Office, 1929 **Quality in Higher Education** Dr. P. S. Aithal, 2017-07-14 1

CHAPTER 1 CURRICULAR ASPECTS Page 2 2 CHAPTER 2 TEACHING LEARNING AND EVALUATION Page 32 3 CHAPTER 3 RESEARCH CONSULTANCY AND EXTENSION Page 88 4 CHAPTER 4 INFRASTRUCTURE AND LEARNING RESOURCES Page 175 5 CHAPTER 5 STUDENT SUPPORT AND PROGRESSION Page 195 6 CHAPTER 6 GOVERNANCE LEADERSHIP AND MANAGEMENT Page 257 7 CHAPTER 7 INNOVATIONS AND BEST PRACTICES Page 288 8 SUMMERY CONCLUSION

The Journal of Education ,1888 **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 **The Digest of South African Case Law** Thomas Graeme Duncan,1927 **American Annals of the Deaf and Dumb** ,1896 *American Annals of the Deaf* ,1896 Princeton Alumni Weekly ,1909 **Reports of the President and Treasurer of Harvard College** Harvard University,1905 *Catalogue of Government Publications* Ireland. Stationery Office,1924 *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 unequaled 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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web feb 25 2022 detailed experimental light brown nutmeg powder 4 g was mixed with 25 ml of clear and colorless diethyl ether solvent and the brown cloudy mixture was filtered by gravity filtration with fluted fast flow filter paper in a powder funnel into a 250 ml round bottom flask rbf leaving light brown residue and beige filtrate diethyl ether was

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web trimyristin in the major triglyceride found in nutmeg representing 20 25 of the dried weight of ground nutmeg to extract the trimyristin we performed a solid liquid extraction using the organic solvent methylene chloride CH_2Cl_2

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web isolation of trimyristin from nutmeg purpose the purpose of this experiment is to isolate myristic acid from ground nutmeg seeds nutmeg seeds are extracted using TBME to yield crude trimyristin then recrystallized to yield pure trimyristin which will be hydrolyzed and undergo esterification

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web read standard reflux on page 201 of the organic chem lab survival manual prelab question 1 trimyristin is a triglyceride what are triglycerides prelab question 2 how do microwaves heat microwave procedure add approximately 2 5 g of ground nutmeg record exact mass and 15 ml of diethyl ether to microwave vessel

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web in this week s lab experiment the purpose of this lab is to new techniques isolate the chemical trimyristin from the common spice nutmeg this lab requires five techniques simple distillation vacuum filtration melting point determination reflux and extraction

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web trimyristin compound from nutmeg seed trimyristin compounds contained in nutmeg seed is very important to be isolated because it has various benefits trimyristin along with myristic acid myristicin and elemicin have antioxidant anticonvulsant analgesic anti inflammatory antidiabetic antibacterial and anti fungal activity

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web aug 4 2008 the purpose of this experiment was extract isolate and purify the natural product trimyristin from the spice nutmeg the trimyristin was extracted by using the solvent diethyl ether and

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web trimyristin is found in the fixed oil of nutmeg the fixed oil comprises approximately 24 40 of the nutmeg seed trimyristin comprises 73 of the fixed oil overall trimyristin should have percent recovery of 18 29 1 figure 1 shows how trimyristin is triester formed from the dehydration reaction between glycerol and myristic acid oh

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web purpose the purpose of this lab is to extract trimyristin from nutmeg as well as synthesizing myristic acid from the

extracted trimyristin using base hydrolysis and naoh acidification using hcl is necessary to characterize the product by finding the melting point

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web in this lab trimyristin is extracted from ground nutmeg occurring in many vegetable oils as well as myristic acid trimyristin consists of long saturated hydrocarbon chains and it is relatively nonpolar thus using a relatively nonpolar solvent trimyristin can be easily extracted by the concept of like dissolves like

experiment 3 full report isolating trimyristin from nutmeg - Oct 08 2022

web the desired components of solids are dissolved in a solvent then the remaining solid is filtered so that the selected element and solvent are left over in this lab the trimyristin was dissolved into the solvent and the remainder of the nutmeg was filtered out

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web may 1 2011 experiment 3 1 february 2010 grade a small scale extraction of trimyristin from nutmeg introduction the purpose of this experiment is to collect trimyristin from an amount of nutmeg provided trimyristin is a type of triglyceride containing the fatty acid myristic acid also known as tetradecanoic acid

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