

## 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

**LL Leslie**



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web catan previously known as the settlers of catan or simply settlers is a multiplayer board game designed by klaus teuber it was first published in 1995 in germany by franckh kosmos verlag kosmos as die siedler von catan pronounced di: 'zi:dlɛ fɔn ka'ta:n

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web expands this is an expansion for die siedler von catan the settlers of catan there are two scenarios that are included cheops and alexander the great the first recreates the building of the pyramids ala settlers and the second follows the imperial expansion of alexander the great

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web kompatibilitäts kit für die siedler von catan es erreichten uns immer wieder beschwerden von kunden die das alte basisspiel der im jahr 2002 eingestellten ersten edition besitzen mit holzfiguren ohne rahmen und sich eine erweiterung der zweiten edition mit kunststofffiguren und rahmen kauften

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web expansion kit for die siedler von catan the settlers of catan includes fifteen expansion scenarios and many variants along

with pieces however written only in german some editions in the u s are available with a set of english translations for the scenarios and variants part of the book enclosed belongs to the catan series

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web dec 21 2018 if luke wanted to imply that there was an inn in bethlehem that had no rooms to rent he would have likely used a different word pandócheon that word refers to lodging used by travelers

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web mom asked nope but i got to ring the bell said sarah this is starting to feel like mary and joseph trying to find somewhere to stay in bethlehem said mom there just isn t room for us don t worry dad said something will work out we should say a prayer i already did i said

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web no room at the inn so what is really happening why was there no place for them in the inn in western 20th century culture this hackneyed phrase brings up the image of a multi roomed facility with a no vacancy sign outside also for us a manger or feeding trough would belong in a stable

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web dec 25 2010 bethlehem was tiny joseph went to a little town called bethlehem his ancestral home for the census because that s where his family was from we hear so much about this place around christmastime that it s hard to imagine that bethlehem didn t even show up on most ancient maps

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web that there is no room for christ is a sign of the end into this world this demented inn in which there is absolutely no room for him at all christ has come uninvited merton wrote

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web nov 8 2012 most have taken for granted jesus nativity story as commonly related that when joseph and mary arrived in bethlehem there was no room in an inn so mary ended up giving birth to jesus in a stable but is this the true account in scripture see for yourself

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web dec 21 2017 in particular there is a common narrative that depicts joseph pounding on doors trying to find a place where mary can give birth to jesus the owner of the local motel 6 slams the door in joseph

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web the story of the birth of jesus presented in language appropriate for developing readers

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web dec 23 2009 the biblical nativity story is vague about how mary and joseph came to deliver baby jesus in a bethlehem manger although the gospel of st luke definitely suggests the pair was up against at

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web the lsx 454 block has a siamese cylinder bore configuration allowing for larger bore diameters the lsx 454 engine is fitted with high flow cylinder heads based on those developed for the high performance ls3 v 8 these

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web 454 marine specs the gm marine 454 had a bore of 4 25 inches and stroke of 4 inches with compression ratio of 8 1 to 1 the engine breathed through a four barrel carburetor and ignition was provided by a delco electric unit the marine 454 weighs 980 lbs and makes 330 horsepower at its maximum rpm of 4 400 references writer bio ac vs

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web 7 4l sportpac part number s454s counter rotation s454sr purchase power up 330hp displacement 454 c i d 7 4l cylinders

90 degree v 8 cylinders compression ratio 8 6 1 valve configuration overhead valves 2 valves per cylinder valve lifters hydraulic roller firing order 1 8 4 3 6 5 7 2 oil

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