

# SRI GVG VISALASKHI COLLEGE FOR WOMEN (Autonomous)



Affiliated to Bharathiar University  
Accredited at A+ Grade by NAAC (4th Cycle)  
An ISO 9001:2015 Certified Institution  
Udumalpet - 642 128



## Department of Mathematics Academic Year 2021 – 2022

### Soft Skill – Problem Solving Session

Date: 13.12.21 – 17.12.21

No. of beneficiaries: 182

The screenshot shows a Google Meet window with a presentation slide titled "LA DEC-2016 PART B". The slide contains the following text: "Let  $J$  denote the matrix of order  $n \times n$  with all entries 1 and let  $B$  be a  $(3n) \times (3n)$  matrix given by  $B = \begin{bmatrix} 0 & 0 & J \\ 0 & J & 0 \\ J & 0 & 0 \end{bmatrix}$ . Then the rank of  $B$  is". Below this, there are four multiple-choice options: (a)  $2n$ , (b)  $3n-1$ , (c) 2, and (d) 3. Handwritten in red ink on the slide are the answers:  $n=1$ ,  $[J] = [1]$ , and  $B = \begin{bmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{bmatrix}$ . The Meet interface shows the presenter Karuppiah Kannappan and a list of participants including Nasreen Banu, Pandi Jothimani, Pavithra G, Prithiba N, Priya Priya, Priyadarshini Balakrishnan, and R Ruby.

The screenshot shows a Google Meet window with a presentation slide titled "KAVI SHREE.D III Bsc matha A has left the meeting". The slide contains the following text: " $\frac{dy}{dx} = 0 \Rightarrow x = a$ ", " $\frac{d^2y}{dx^2} = \begin{cases} -ve & \text{Maxima} \\ +ve & \text{Minima} \end{cases}$ ", and "To find max/min value  $y = f(x)$ ". Below this, there are handwritten notes: "Type:  $z = f(x, y)$ ", " $\frac{\partial z}{\partial x} = 0$ ", " $\frac{\partial z}{\partial y} = 0$ ", and " $\frac{\partial^2 z}{\partial x^2} = t$ ". The Meet interface shows the presenter Karuppiah Kannappan and a list of participants including Bhavadharini S, Abinaya K Mathema..., Kirubarvarshini Shan..., S. Nivethini 18BM7461, and B.Kalaiselvi Maths Ai....

Screen shots 13.12.2021 - Microsoft Word (Product Activation Failed)

File Home Insert Page Layout References Mailings Review View

Calibri (Body) 11 A A Font Paragraph Styles

DEC-2013 Question Paper Problems - PART-B  
This question is taken from Elements of PDE by Sneddon

Let  $a, b, c$  be continuous functions defined on  $R^2$ . Let  $V_1, V_2, V_3$  be nonempty subsets of  $R^2$  such that  $V_1 \cup V_2 \cup V_3 = R^2$  and the PDE

$$a(x, y)u_{xx} + b(x, y)u_{yy} + c(x, y)u_{xy} = 0$$

is elliptic in  $V_1$ , parabolic in  $V_2$  and hyperbolic in  $V_3$ , then

- $V_1, V_2$  and  $V_3$  are open sets in  $R^2$
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- $V_1$  and  $V_2$  are open sets in  $R^2$
- $V_2$  and  $V_3$  are open sets in  $R^2$

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Page: 2 of 3 Words: 0 190%

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Problem solving session meeting Meet - cwx-rggi-yjv Maths(A) Department Presentat...

meet.google.com/cwx-rggi-yjv?pli=1

REC Karuppiah Kannappan is presenting

DEC-2013 Question Paper Problems - PART-B  
This question is taken from Elements of PDE by Sneddon

Let  $a, b, c$  be continuous functions defined on  $R^2$ . Let  $V_1, V_2, V_3$  be nonempty subsets of  $R^2$  such that  $V_1 \cup V_2 \cup V_3 = R^2$  and the PDE

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Problem solving session meeting: x Meet - cwx-rggi-yjv Maths(A) Department Presentat: x software for maths teaching - G: x +

meet.google.com/cwx-rggi-yjv?pli=1

REC Karuppiah Kannappan is presenting

Handwritten notes on a whiteboard:

$t$  - time variable  $t \in [0, \infty)$   $\Rightarrow$  unbounded

$e^x \in (0, \infty)$   $\Rightarrow$  unbounded

$e^{-x} \in (0, 1)$   $\Rightarrow$  unbounded

$e^t \in [1, \infty)$   $\Rightarrow$  unbounded

$e^{-t} \in (0, 1)$

Participants:

- Bhavadharini S
- Karuppiah Kannappan
- Mangaiyarkarasi D
- Kirubavarshini Shan...
- S. Nivethini 18BM7461
- B.Kalaiselvi Maths AI...
- 45 others
- You

2:41 PM | cwx-rggi-yjv

CURIE-PG Advt-2....docx CURIE -PG 2017.docx

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Problem solving session meeting: x Meet - cwx-rggi-yjv (no subject) - gygmathsaid@: x software for maths teaching - G: x +

meet.google.com/cwx-rggi-yjv?pli=1

REC Karuppiah Kannappan is presenting

Handwritten notes on a whiteboard:

LA DEC-2016 PART B

Let  $J$  denote the matrix of order  $n \times n$  with all entries 1 and let  $B$  be a  $(3n) \times (3n)$  matrix given by  $B = \begin{bmatrix} 0 & 0 & J \\ 0 & J & 0 \\ J & 0 & 0 \end{bmatrix}$ . Then the rank of  $B$  is

(a)  $2n$   
 (b)  $3n-1$   
 (c) 2  
 (d) 3

$n=1$   $[J] = [1]$   $B = \begin{bmatrix} 0 & 1 & 1 \\ 1 & 1 & 0 \\ 1 & 0 & 0 \end{bmatrix}$

Participants:

- Karuppiah Kannappan
- Pandi Jothimani
- 51 others
- You

People

- Mute all
- Add people
- Host controls
- Nasreen Banu
- Pandi Jothimani
- Pavithra G
- Prithiba N
- Priya Priya
- Priyadarshini Balakrishnan
- R Ruby

3:05 PM | cwx-rggi-yjv

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## FEEDBACK

### PROBLEM SOLVING SESSION.

The session was very useful to us. We learnt a lot from this session. You gave hope to clear the NET/SLET Exam. The way of your presentation was excellent and the way you were interacting with students making us so interested. During this pandemic time, thanks for spending your precious <sup>time</sup> with us.

Thank you.

I - M.Sc. Mathematics.

## Feedback Problem Solving Section

We taught how to approach towards the problem related to real analysis. This platform helps us to get path towards Research.

Class was very interesting and interactive. Specific explanation of certain problem gives indepth knowledge in subjects.

- I - M.Sc. Maths

## feedback

### II Msc Mathematics

This program was very interesting and it is very useful for us because many tricks followed by problems were solved by us and faculties.

In this program we learned different tricks and easy methods to solve the problems.

This program was taken by Dr. K. Karuppaiah Sir on 13.12.21 to 17.12.2022.

Problem solving session, he explained how to solve a problem without consuming more time.

