

MANONMANIAM SUNDARANAR UNIVERSITY

DIRECTORATE OF DISTANCE AND CONTINUING EDUCATION

INTERNAL ASSIGNMENT FOR MAY 2024 EXAMINATIONS

B.Sc. Mathematics – First Semester

பொதுத்தமிழ் - தாள் - 1

தமிழ் இலக்கிய வரலாறு

Sub-Code: J1TL11

- 1.) (அ) தமிழில் தோன்றிய இலக்கண நூல்கள் மற்றும் அதனுடைய வரலாற்று அறிமுகத்தை தொகுத்து எழுதுக.

(அல்லது)

- (ஆ) சங்க இலக்கியங்கள் என்று கூறப்படும் நூல்கள் மற்றும் அதனுடைய சிறப்புகளை சான்றுடன் விவரி.

- 2.) (அ) அற இலக்கியம் மற்றும் காப்பிய இலக்கியம் குறித்து கட்டுரை வரைக.

(அல்லது)

- (ஆ) பக்தி இலக்கியம் மற்றும் பகுத்தறிவு இலக்கியம் கூறும் வாழ்வியல் கருத்துக்களை விரிவாக விளக்குக.

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B.Sc. Mathematics – First Semester

General English - I (Part II English)

Sub-Code: J2EN11

- 1.) (A) Examine the role of patriarchal structures within pashtun society and Malaya yousafzails family in shaping her perspectives of freedom to challenge the Boundaries.

(OR)

- (B) How does Tagore envision a society free from constraints and limitations in his poem “Where the Mind is without fear”?

- 2.) (A) Write the critical appreciation of the poem “Nine Gold Medals.”

(OR)

- (B) Discuss the significance of the title of the poem “The things that Haven’t Been Done Before.”

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General Chemistry ICCI

Sub-Code: JMMA11

JMMA11 Algebra & Trigonometry

1) a) Solve the equation $6x^5 - x^4 - 43x^3 + 43x^2 + x - 6 = 0$.
(or)

b) Sum of the series
 $1 + \frac{1+3}{2!} + \frac{1+3+3^2}{3!} + \frac{1+3+3^2+3^3}{4!} + \dots \infty$.

2) a) Find the inverse of the ~~Matrix~~ Matrix
$$\begin{bmatrix} 1 & 2 & -1 \\ 3 & 8 & 2 \\ 4 & 9 & -1 \end{bmatrix}$$

(or)

b) If $\log \sin (\theta + i\varphi) = L + i\beta$, prove that
 $2e^{2L} = \cosh 2\varphi - \cos 2\theta$.

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B.Sc. Mathematics – First Semester

Differential Calculus

Sub code : JMMA12

JMMA12 Differential Calculus

1) a) Find y_n , where $y = \frac{x^2}{(x-1)^2(x+2)}$.

(or)

b) Illustrate the theorem that $\frac{\partial^2 u}{\partial x \partial y} = \frac{\partial^2 u}{\partial y \partial x}$,
When u is equal to $\log \frac{x^2 + y^2}{xy}$.

2) a) Find the envelope of the family of curves $x^2 + y^2 - 2ax \cos \theta - 2ay \sin \theta = c^2$.

(or)

b) Show that the radius of curvature of the curve $r^n = a^n \cos n\theta$ is $\frac{a^n r^{-n+1}}{n+1}$.

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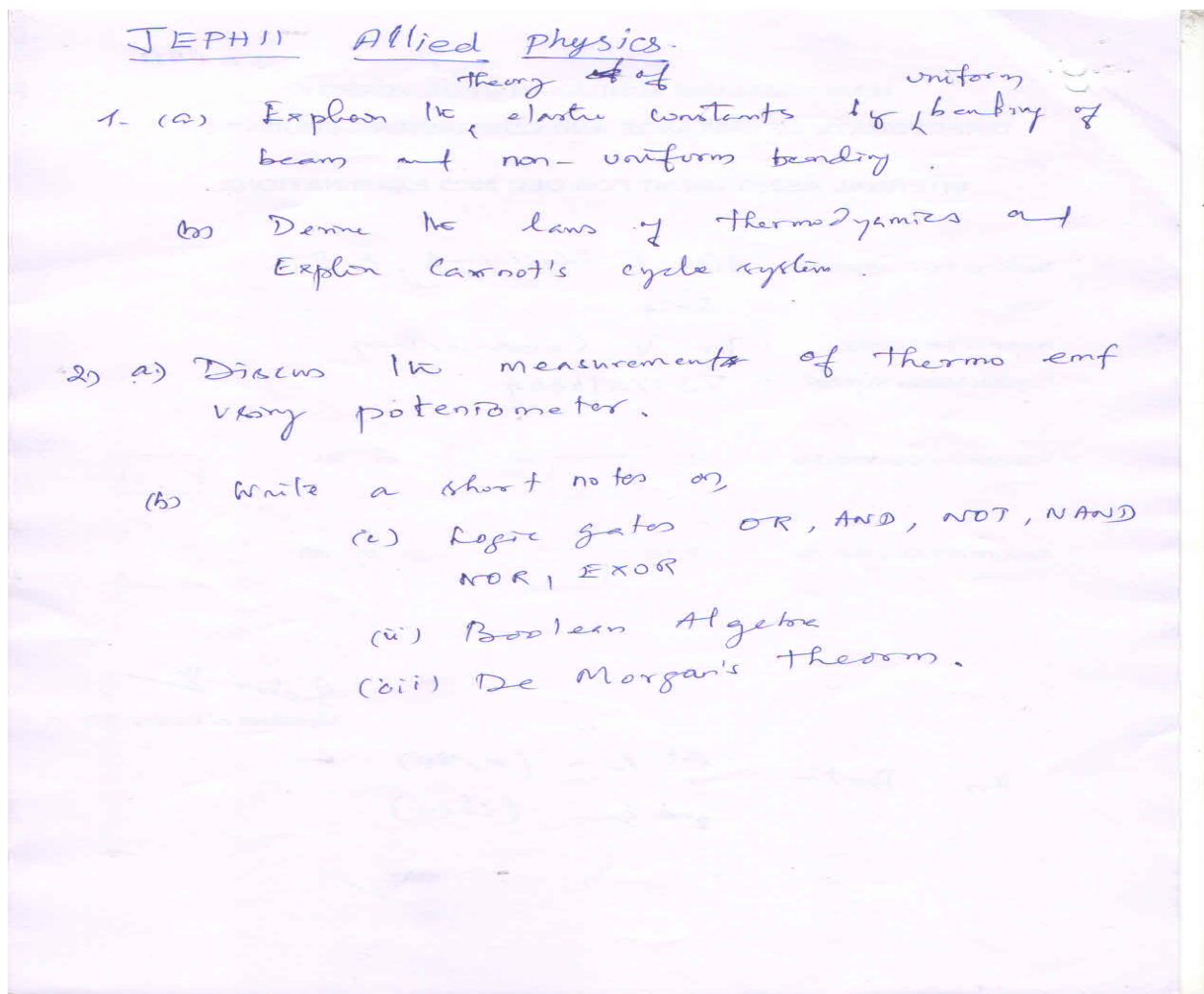
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INTERNAL ASSIGNMENT FOR MAY 2024 EXAMINATIONS

B.Sc. Mathematics – First Semester

Allied Physics

Sub-Code: JEPH11



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B.Sc. Mathematics – First Semester

Mathematics for Competitive Examination I

Sub-Code: JSMA11

JSMA11 Mathematics for competitive Examination I

1) a) (i) A bag contains $\text{₹}20$, $25p$ and $10p$ coins in the ratio $5:9:4$ amounting to Rs. 206. Find the number of coins of each type.

(ii) Find the fourth proportional to 4, 9, 12.

(or)

b) (i) If 50% of $(x-y) = 30\%$ of $(x+y)$ then what percent of x is y ?

(ii) When the price of a product was decreased by 10% , the number sold increased by 30% . What was the effect on the total revenue?

2) a) A man buys an article for Rs. 27.50 and sells it for Rs. 28.60. Find his gain percent?

(or)

b) The difference of two numbers is 11 and one-fifth of their sum is 9. Find the numbers.

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B.Sc. Mathematics – First Semester

Bridge Mathematics

Sub code : JFMA11

