

MANONMANIAM SUNDARANAR UNIVERSITY

DIRECTORATE OF DISTANCE AND CONTINUING EDUCATION

INTERNAL ASSIGNMENT FOR MAY 2024 EXAMINATIONS

B.Sc. Physics – 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. Physics – 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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B.Sc. Physics – First Semester

Properties of Matter and Acoustics

Sub-Code: JMPH11

- 1.) (A) A uniform rectangular bar 1m long, 0.02m broad and 0.003m thick is supported on its flat surface symmetrically on two knife edges 0.7m apart. when the loads of 0.2 kg are hung from the ends, the elevation of the bar above its normal position is found to be 0.0022m. Find the youngs modulus of the material of the bar?

(OR)

- (B) Define surface tension and determine the surface tension by Jaegar's Method?
- 2.) (A) What is simple harmonic motion (SHM)? Derive the differential Equation of SHM with graphical representation?

(OR)

- (B) Explain the term reverberation and derive the Sabine's reverberation Formula?

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B.Sc. Physics – First Semester

Algebra and Differential Equation

Sub-Code: JEMA11

1.) (A) Solve $x^4+2x^2-16x+77=0$ given that one root is $-2+i\sqrt{7}$

(OR)

(B) Find the negative root of the equation $x^3-2x+5=0$ correct to two Places of decimals by using Newton's method.

2.) (A) Verify Cayley-Hamilton theorem, find A^4 and A^{-1} when

$$A = \begin{pmatrix} 2 & -1 & 2 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{pmatrix}$$

(OR)

(B) Solve $y^2 p^2 - 3xp + y = 0$.

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B.Sc. Physics – First Semester

Physics for everyday Life

Sub-Code: JSPH11

- 1.) (A) Explain the physics behind roller coaster and Rocket's in Space travel and find the common law in physics governs both Activity?

(OR)

- (B) List out the common Appliances used in home. Find the principle in Physics operating on those appliances?

- 2.) (A) Explain the optics behind a Polaroid camera and how it differ from color photography.

(OR)

- (B) What is solar energy? List out the general applications of solar Energy.

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B.Sc. Physics – First Semester

Introductory Physics

Sub-Code: JFPH11

- 1.) (A) What are the types of mechanical forces? Write a detailed note on each type.

(OR)

- (B) Derive the conservation laws of momentum and Explain about the types of collision.

- 2.) (A) Write a short note on simple harmonic motion and list out the types of motion.

(OR)

- (B) Define surface tension. Describe the shape, size and angle of a Liquid drop's