MANIPAL
ACADEMY of HIGHER EDUCATION
(Institution of Eminence Deemed to be University)

DEPARTMENT OF SCIENCES, II SEMESTER M.Sc. (Physics)

END SEMESTER EXAMINATIONS, MAY/JUNE 2023

COMPUTER PROGRAMMING LAB [PHY5256]

(CHOICE BASED CREDIT SYSTEM - 2020)

Time: 3 Hours MAX. MARKS: 40

Write C program to solve the below mentioned problem.

Finding the root of given equation by bi-section method.

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COMPUTER PROGRAMMING LAB [PHY5256]

(CHOICE BASED CREDIT SYSTEM - 2020)

Time: 3 Hours MAX. MARKS: 40

Write C program to solve the below mentioned problem.

Finding root of given equation by false position method.

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END SEMESTER EXAMINATIONS, MAY/JUNE 2023

COMPUTER PROGRAMMING LAB [PHY5256]

(CHOICE BASED CREDIT SYSTEM - 2020)

Time: 3 Hours MAX. MARKS: 40

Write C program to solve the below mentioned problem.

Generating backward/forward difference table.

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COMPUTER PROGRAMMING LAB [PHY5256]

(CHOICE BASED CREDIT SYSTEM - 2020)

Time: 3 Hours MAX. MARKS: 40

Write C program to solve the below mentioned problem.

Linear least square fit of given data points.

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COMPUTER PROGRAMMING LAB [PHY5256]

(CHOICE BASED CREDIT SYSTEM - 2020)

Time: 3 Hours MAX. MARKS: 40

Write C program to solve the below mentioned problem.

Integrating given function by trapezoidal method.

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COMPUTER PROGRAMMING LAB [PHY5256]

(CHOICE BASED CREDIT SYSTEM - 2020)

Time: 3 Hours MAX. MARKS: 40

Write C program to solve the below mentioned problem.

Integrating given function by Simpson's 1/3 rule.

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COMPUTER PROGRAMMING LAB [PHY5256]

(CHOICE BASED CREDIT SYSTEM - 2020)

Time: 3 Hours MAX. MARKS: 40

Write C program to solve the below mentioned problem.

Capacitor charging/discharging by Euler's method.

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COMPUTER PROGRAMMING LAB [PHY5256]

(CHOICE BASED CREDIT SYSTEM - 2020)

Time: 3 Hours MAX. MARKS: 40

Write C program to solve the below mentioned problem.

Oscillation of driven oscillator by Euler's method.

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(CHOICE BASED CREDIT SYSTEM - 2020)

Time: 3 Hours MAX. MARKS: 40

Write C program to solve the below mentioned problem.

Solving Schrödinger wave equation (time independent) by finite difference method.

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COMPUTER PROGRAMMING LAB [PHY5256]

(CHOICE BASED CREDIT SYSTEM - 2020)

Time: 3 Hours MAX. MARKS: 40

Write C program to solve the below mentioned problem.

Integration of given function by Monte-Carlo crude integration.

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COMPUTER PROGRAMMING LAB [PHY5256]

(CHOICE BASED CREDIT SYSTEM - 2020)

Time: 3 Hours MAX. MARKS: 40

Write C program to solve the below mentioned problem.

Radioactive decay of one type of nucleus by Monte-Carlo simulation.

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COMPUTER PROGRAMMING LAB [PHY5256]

(CHOICE BASED CREDIT SYSTEM - 2020)

Time: 3 Hours MAX. MARKS: 40

Write C program to solve the below mentioned problem.

Solving particles in a box problem by Monte-Carlo method.