Total No. of Questions:-4 Class Roll No

Total No. of printed pages:-1 Enrollment No

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LNCTU CS - 104

Mid-Semester Examination-I (DEC 2024) B. Tech. 1 Semester (CSE/CSE-AIML)

PROGRAMMING AND PROBLEM SOLVING USING C++ (PPS)

Duration: 1hr 30min

Max. Marks: 20

Note: Attempt all questions.

Q1.A) Discuss in detail various types of computers through classification of computers. [CO-1 / 5 Marks]

Or

- B) Discuss CPU organization in detail? Also explain any two I/O devices that you know. [CO-1/5 Marks]
- Q2. A) Convert the following decimal numbers into Binary, Octal and Hexa-decimal numbers.

(i) 156

(ii) 24.75

B) Differentiate between system software and application software.

CO-1/5 Marksl

Or

- C) What do you mean by generations of computers? Explain different · generations of computers in detail.
 - D) Convert F8(16) into Octal, Binary and decimal numbers. [CO-1 / 5 Marks]
- O3. A) What do you understand by an Algorithm? Highlight its importance. Write Algorithm for finding largest of given 3 numbers. [CO-2/5 Marks]

Or

- B) Explain in detail the problem-solving strategy in computers? List out any 3 algorithm design strategies. [CO-2 / 5 Marks]
- Q4. A) What is a Flow Chart? Explain different symbols used in a flow chart? Also draw a flow chat for printing a larger number of the given two numbers.
 - B) What is a header file in C? List out at least 5 header files used in C and discuss [CO-2 / 5 Marks] any one of them in detail?