

2003000205020096
EXAMINATION OCTOBER 2024
BACHELOR OF SCIENCE (FIFTH SEMESTER)
ELECTRONICS-XI - LEVEL 2
(PROGRAMING LANGUAGE FOR MICROCONTROLLER)

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination: **BACHELOR OF SCIENCE (FIFTH SEMESTER)**
 - b. Name of the Subject: **ELECTRONICS-XI – LEVEL 2 (PROGRAMING LANGUAGE FOR MICROCONTROLLER)**
 - c. Subject Code No : **2003000205020096**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer in brief. 8

- A) Why is the #include <stdio.h> command given in the beginning of the program.
- B) Define pointer in C.
- C) Bring out the difference between & and && operator.
- D) State the rules for defining variable name.

Q.2 A) Explain the switch statement with suitable example. 7

B) Explain the two mechanisms, with suitable examples, through which the values/parameters can be pass to a function. 7

OR

A) A five-digit number is entered through the keyboard. WAP to obtain the sum of its digit. 7

B) If the ages of Ram, Shyam, and Ajay are input through the keyboard, WAP to determine the youngest of the three. 7

Q.3 A) Bring out the differences and similarity between switch and if-else statement with suitable example. 7

B) Explain the concept of Recursive function with suitable example. 7

OR

- A) WAP to calculate the overtime pay of 10 employees. Overtime is paid at the rate of Rs. 12.00 per hour for every hour worked above 40 hours. Assume that the employees do not work for fractional part of an hour. 7
- B) Any year is entered through the keyboard, WAP to determine whether the year is leap year or not. 7
- Q.4**
- A) Explain the concept of Call by Value and Call by Reference, with suitable examples. 7
- B) Explain the Conditional Operator with suitable examples. 7
- OR**
- A) WAP to print all prime numbers from 1 to 300. (Hint: Use nested loops, break and continue). 7
- B) If a cost price and selling price of an item is input through the keyboard, WAP to determine whether the seller has made profit or incurred loss. Also determine how much profit he has made or loss incurred. 7
