



RAN - 2003000205020096

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T.Y.B.Sc.(Sem. - V) Examination November - 2023

Electronics (Paper-XI)

Programming Language for Microcontroller

सूचना : / Instructions

(१)

नीचे दृशविले निशानीवाणी विगतो उत्तरवली पर अवश्य लपववी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

T.Y.B.Sc.(Sem. - V)

Name of the Subject :

Electronics (Paper-XI) Programming Language for Microcontroller

Subject Code No.: 2003000205020096

Seat No.:

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Student's Signature

- (2) Figure on the right indicates full marks
- (3) All symbols and abbreviations have their usual meaning.
- (4) Non-programmable calculators are allows.
- (5) Q.1 is compulsory.
- (6) Assume data, if necessary.

Q. 1 Answer in brief .

8

- A) Define an array. How do you initialize an array?
- B) Define pointer in C.
- C) State the rules for defining variable name.
- D) What do you understand by Keywords in C?

Q.2 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**

OR

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

B) Explain the concept of Call by Value and Call by Reference, with suitable examples. **7**

- Q.3** A) Explain if, if-else and else-if statement with suitable examples. 7
B) Explain the Conditional Operator with suitable examples. 7

OR

- Q.3** 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) A library charges a fine for every book returned late. For the first 5 days the fine is 50 paise, for 6-10 days fine is one rupee and above 10 days fine is 5 rupees. If you return the book after 30 days your membership will be cancelled. WAP to accept the number of days the member is late to return the book and display the fine or the appropriate message. 7
B) WAP to find the greatest of the three numbers entered through the keyboard using conditional operator. 7

OR

- Q.4** A) What do you understand by loops in C? Explain all three loops (the for, while, and do... while) with suitable examples. 7
B) What do you understand by “break” and “continue” statements? Explain with suitable example. 7
