



AB-3189
Third Year B. Sc. (Sem. V) Examination
March/April – 2015
Electronics : Paper - 11
(Programming Language for Microcontroller)

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

<p>नीचे दशांशवैध निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : Third Year B. Sc. (Sem. V)</p> <p>Name of the Subject : Electronics : Paper - 11</p> <p>Subject Code No. : 3 1 8 9 Section No. (1, 2,...): Nil</p>	<p>Seat No. : [][][][][][][]</p> <p>Student's Signature</p>
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- (2) Q. 1 is compulsory.
(3) Figures at the extreme right indicate full marks.

- 1 Answer in brief : 8
- (a) State the types of constant and state the rules for defining Integer Constant.
(b) State the types of constant and state the rules for defining Real Constant.
(c) What do you understand by Keywords in C?
(d) State the rules for defining variable name.
- 2 (a) A library charges a fine for every book returned late. 14
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.
(b) Explain the two mechanisms, with suitable examples, through which the values/parameters can be passed to a function.

OR

- 2 (a) WAP to calculate the overtime pay of 10 employees. 14
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.
- (b) Any year is entered through the keyboard, WAP to determine whether the year is leap year or not.

- 3 (a) Explain if, if-else and else-if statement with suitable 14
examples.
- (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.

OR

- 3 (a) Explain the hierarchy of operation and the type 14
conversion in assignments.
- (b) WAP to find the greatest of the three numbers entered through the keyboard using conditional operator.

- 4 (a) What do you understand by loops in C? Explain all 14
three loops (the for, while, and do ... while) with suitable examples.
- (b) What do you understand by "break" and "continue" statements. Explain with suitable examples.

OR

- 4 (a) Two numbers are entered through the keyboard. 14
WAP to find the value of one number raised to the power of another.
- (b) Any integer is input through keyboard. WAP to find out whether it is an odd number or even number.