

с16-см-106/с16-іт-106

6026

BOARD DIPLOMA EXAMINATION, (C-16)

OCT/NOV-2017

DCME-FIRST SEMESTER EXAMINATION

PROGRAMMING IN C

Time : 3 hours]

[Total Marks : 80

PART-A

3×10=30

Instructions : (1) Answer all questions.

- (2) Each question carries **three** marks.
- (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.
- 1. List any three features of C language.
- 2. List various types of C tokens.
- 3. List the logical operation and name them.
- **4** Give the syntax of GOTO statement and list any two disadvantages of it.
- **5.** Write the syntax of an entry-controlled loop with an example.
- 6. Define an array. In the given example, find out the value of a[2]: int $a[3] \{14, 16, 20\};$
- 7. What is the purpose of gets(), function? Write the syntax.

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8. Define a recursive function and state the need of it.

- What is the purpose of a NULL pointer? 9.
- **10.** Define self-referential structure and its purpose.

10**×5**=50 PART-B **Instructions** : (1) Answer any **five** questions. (2) Each question carries ten marks. (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer. **11.** (a) Compare if-else-if ladder statement with switch statement. 5 (b) Write a C program to find the average of biggest and smallest of two numbers asing ternary operator. 5 12. (a) Explain do-while loop 3 Write a C program to check whether the given number *n* is (b)palindrome p not by using while (read n value through keyboard). 7 program to perform the multiplication of 2 2 13. Write matrices. 10 Define a function and briefly explain different types of 14 user-defined functions. 5 (b) Write a C program to calculate the sum of the digits of a given number using function. 5 5 **15.** (a) Explain about various assignment operators. (b) Differentiate between an ordinary function and a recursive function. 5 2

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- **16.** Write a C program to exchange the contents of two variables without using temporary variable and by using call by value concept.
- **17.** (a) Explain nested structures in brief.
 - (b) Write a C program to create a node which consist of student basic details like name, pin-no., phone no., branch and address, and print it.
- and address, and print it. **18.** Write a C program to create and display the contents of text file. *** *** *** A.A.M.M.B.V.R.S.R.POLYTERMIC CUDANALLERMINE

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