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C-14-CM-106/IT-106

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BOARD DIPLOMA EXAMINATION, (C-14)

APRIL/MAY—2015

DCM—FIRST YEAR EXAMINATION

PROGRAMMING IN C

Time : 3 hours]

[Total Marks : 80

PART—A

$3 \times 10 = 30$

- 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. Define high-level language and low-level language. $1\frac{1}{2} + 1\frac{1}{2}$
 2. Explain how to declare a variable and assign value to it. $2+1$
 3. Explain the usage of scanf function with an example. $2+1$
 4. Explain how to evaluate a logical expression. 3
 5. Illustrate the usage of continue statement. 3
 6. Explain how to declare an array with example. $2+1$
 7. Explain how to read a string. 3
 8. Define function call. Give one example. $2+1$
 9. Explain declaration of a pointer with example. $2+1$
 10. Define file. Write the syntax to declare filepointer. $2+1$

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PART—B

10×5=50

- 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) Differentiate between pre-increment and post-increment operators with examples. 2½+2½
(b) Explain the scope and lifetime of a variable used in functions. 3+2
- 12.** (a) Write the syntax of switch statement. 5
(b) Write a C program to find largest of three numbers. 5
- 13.** Compare different loop statements with syntax with examples. 10
- 14.** Write a C program to multiply two matrices A, B. Store the result in matrix C and display it. 10
- 15.** (a) Illustrate the usage of functions with arguments that return no values. 6
(b) Explain function declaration. 4
- 16.** (a) Explain how pointers can be used to access array elements. 5
(b) Explain any dynamic memory management function with an example. 5
- 17.** (a) Illustrate the concept of structure assignment. 5
(b) Define union. Explain its usage with an example. 2+3
- 18.** Illustrate the concept of input and output operations on a file. 10

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