4032

BOARD DIPLOMA EXAMINATION, (C–14)

APRIL/MAY—2015

DCM—FIRST YEAR 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. Define high-level language and low-level language.   1½+1½

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

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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