

# с14-см-106/Іт-106

## 4032

### BOARD DIPLOMA EXAMINATION, (C-14)

### MARCH/APRIL-2017

DCM—FIRST YEAR EXAMINATION

PROGRAMMING IN C

Time : 3 hours ]

[ Total Marks : 80

#### PART-A

3×10=30

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Instructions : (1) Answer all questions.		
	(2) Each question carries <b>three</b> marks.	
	(3) Answers should be brief and straight to the and shall not exceed <i>five</i> simple sentences.	point
1.	Distinguish between low-level and high-level language.	3
2.	What is a variable? How to declare a variable in C?	2+1
3.	List the unformatted input-output functions.	3
4.	Write a C program to check whether the given number is even or odd.	n 3
5.	What is a nested loop? Give an example.	2+1
6.	How do you declare and initialize a two-dimensional array in C?	3
7.	What is the purpose of strlen()? Explain with an example.	2+1
8.	Write the advantages of C functions.	3
9.	List the dynamic memory management functions in C.	3
10.	Write about the need of pre-processor directives.	3

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#### 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*) Write a C program to find maximum of two numbers using conditional operator.
  - (b) Explain the scope and lifetime of variables in functions. 6+4
- **12.** (a) Explain about various decision making statements in C.
  - (b) Write a C program to check whether the given year is leap year or not. 6+4
- **13.** (a) Explain about for statement in C with an example.
  - (b) Distinguish between break and continue statements. 5+5
- **14.** (*a*) What is an array? How do you read and print the elements in a single-dimensional array?
  - (b) Write a C program to sort the elements of an array in ascending order. 6+4
- **15.** (*a*) What is a function? Explain how to declare, define and call a function with an example.
  - (b) Write a recursive function to find the factorial of a given number. 5+5
- **16.** (a) How to access array elements using pointers?
  - (b) Write a C program to add two numbers using pointers. 5+5
- **17.** (a) Define a structure. Explain the process of creating a structure.
  - (b) Write the differences between structure and union in C. 6+4
- 18. Write functionality of the following functions with the help of a text file : 2+2+2+2+2

(a) fseek(), (b) ftell(), (c) rewind(), (d) fopen(), (e) fclose()

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