



C14-EE-406

4445

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH / APRIL - 2019

DEEE - IV 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) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1 What is variable ? List any two rules for naming a variable.
- 2 List the logical operators.
- 3 Differentiate between while and do-while loops.
- 4 What is break statement ?
- 5 Define a 1-D array and give an example of its declaration.
- 6 How do you declare and initialize a string ? Give an example.
- 7 Define a function call.
- 8 Write about return statement and give its syntax.
- 9 How do you declare a structure variable ? Give an example.
- 10 Define union. Give an example.

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[Contd...

PART - B**10×5=50**

- Instructions :**
- (1) Answer any **FIVE** questions.
 - (2) Each question carries **TEN** marks.
 - (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11** (a) Explain switch statement. **5**
 (b) Explain while loop. **5**
- 12** Write a C program to find the biggest of three numbers.
- 13** Write a C program to find the highest value in an array of size five.
- 14** (a) Write the general form of 2-D array and explain how to initialize it. **2+2**
 (b) State the use of strlen(), strcpy() and strcat() functions, give its syntax. **6**
- 15** (a) Explain automatic and static variables with examples. **6**
 (b) Write about function prototype with an example. **4**
- 16** Write a C program to find the sum of 1 to n numbers using functions.
- 17** (a) Explain briefly about pointers. **5**
 (b) Write a C program to initialize the members of a structure and to display the contents of the structure on the screen. **5**
- 18** (a) Distinguish between structure and union. **5**
 (b) Explain input and output functions scanf() and printf(). **5**