

C16S-CM-206/IT-206

5240

BOARD DIPLOMA EXAMINATION, (C-16S)

MARCH / APRIL - 2019

DCME - SECOND SEMESTER EXAMINATION

ADVANCED C PROGRAMMING

Time : 3 Hours]

[Total Marks : 80

PART - A

2×15=30

- Instructions :
- (1) Answer any 15 questions.
  - (2) Each question carries 2 marks.
  - (3) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1 ✓ Write the syntax to declare and initialize a pointer.
- 2 Write about accessing the value of a variable through a pointer. ✓
- 3 ✓ What is meant by pointer arithmetic?
- 4 Write about declaring a pointer to a structure. Give example.
- 5 Write about function call. ✓
- 6 Write the syntax for passing arrays to function. ✓
- 7 ✓ What are the elements of a function? ✓
- 8 ✓ Write about function prototype.
- 9 X Define life time of a variable in a function.
- 10 ✓ Write the differences between local and global variables.

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- 11 Define string.
- 12 Write the syntax for strcpy and strncpy.
- 13 Write about reading a string from a terminal using getch() function.
- 14 Define a file. How is a file pointer declared?
- 15 Write the syntax of any two I/O operations on a file.
- 16 List various file opening modes.
- 17 Write the syntax of fopen() and fclose() functions.
- 18 State the need of preprocessor directives.
- 19 List two preprocessor directives.
- 20 What is macro substitution? http://www.sbtetonline.com

PART - B

10×5=50

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

- 21 (a) Write the differences between address and de-referencing operator.
- (b) Write a program to initialize a set of strings onto the character pointer array and display the specified number of strings.
- 22 Explain about accessing array elements using pointer with example.
- 23 Explain about function with arguments and with return values with an example program.

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[ Contd...

24 Explain about parameter passing methods in a function with example program.

25 Explain about the following string functions with example :

- (1) strcmp( )
- (2) strcmp( )
- (3) strlen( )
- (4) strncpy( )
- (5) strrev( )

26 Explain : (i) fseek( ), (ii) ftell( ), (iii) rewind( ) functions.

27 Explain various I/O operation on a file with their syntax.

28 Explain dynamic memory management functions with examples.

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