

3. Attempt any **Two** of the following questions: **6 x 2 = 12**

- (a) Explain advantages and various classification of Functions.
- (b) What are the advantages of using Pointers? Explain with suitable example.
- (c) Explain the concept of dynamic memory allocation. What are the built in functions for dynamic memory allocations?

4. Attempt any **Two** of the following questions: **6 x 2 = 12**

- (a) Explain various types of Arrays. How arrays are declared? Explain with example.
- (b) Explain various most commonly performed operations over String.
- (c) (i) Write a program to find the largest element in an array using a function.
- (ii) Write a program to print transpose of a matrix.

5. Attempt any **Two** of the following questions: **6 x 2 = 12**

- (a) Explain the need for the concept of structure. Write a program to create a list of book's details. The details of a book include title, author, publisher, publishing year, number of pages and price.
- (b) (i) What are the significance of enumerated data types and type def? Give an example of each.
- (ii) Differentiate between Macros and C-preprocessor.
- (c) What are the operations performed over files? Explain various file I/O operations with suitable example.



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B.C.A.**FIRST SEMESTER EXAMINATION, 2017-18****PROGRAMMING IN C**Time : **3 Hours**Max. Marks : **60**

Note : (i) Attempt **ALL** questions.
(ii) Choices are given in each question set.

1. Attempt any **Four** of the following questions: **3 x 4 = 12**

- (a) What are the salient features of C language?
- (b) What are local and global variables?
- (c) What are the different types of errors? Give examples.
- (d) Discuss Keywords, identifiers, variable and constant with examples.
- (e) Write the syntax of using getchar() and putchar().
- (f) Discuss the significance of formatting of outputs.

2. Attempt any **Four** of the following questions: **3 x 4 = 12**

- (a) "C" is rich in operators. Justify.
- (b) Write a program to find greatest among three numbers using conditional operator.
- (c) Write a program to find whether a year is a leap year or not.
- (d) Differentiate between selection and looping.
- (e) Difference between break and continue statement.
- (f) How do you construct a loop with the help of if and goto statements?