

**B.Tech. 2nd Semester F-Scheme  
(Common for All Branches) Examination,  
May-2019**

**FUNDAMENTALS OF COMPUTER &  
PROGRAMMING IN "C"**

**Paper-CSE-101-F**

*Time allowed : 3 hours] [Maximum marks : 100*

*Note : Students are required to attempt any five questions,  
selecting at least one question from each section.  
Question No. 1 is compulsory*

1. Write short notes on following : 20
- (a) Microprocessor
  - (b) Multiprocessor operating system
  - (c) Compiler
  - (d) Topology
  - (e) Character arrays and strings

**Section-A**

2. (a) What are different components of a computer ? Explain briefly with the help of a suitable block diagram. 10
- (b) What is the use of Input Device ? Explain any four input devices briefly. 10

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3. (a) What is the role of operating system ? Discuss main functions of operating system. Also discuss different types of operating systems briefly. 20

**Section-B**

4. (a) Explain different categories of High-level languages. Differentiate between Compiler and Interpreter. 10
- (b) Write short notes on Loader and Linker. 10
5. What is OSI model ? Discuss layers of OSI model. Also differentiate between OSI and TCP/IP model. 20

**Section-C**

6. (a) Write a C program to swap two numbers using function. https://www.haryanapapers.com 10
- (b) What is an Array ? How 1-D array is different from 2-D array ? Explain with the help of an example. 10
7. (a) Differentiate between Structure and Union with suitable examples. 10
- (b) Write short note on Array of structure. 10

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**Section-D**

8. (a) Differentiate between Array of pointer and pointer to an array with the help of an example. 10
- (b) What are pointers? How a variable is declared as pointer variable? Explain with the help of an example. 10
9. (a) What do you mean by dynamic memory allocation? 10
- (b) Write down 'different operations that can be performed on Random access files in "C". 10

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