

**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

- 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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