

24006

**B. Tech. 1st Semester F-Scheme Examination,**

**December-2014**

**FUNDAMENTALS OF COMPUTER AND  
PROGRAMMING IN C**

**Paper-CSE-101-F**

*Time allowed : 3 hours]*

*[Maximum marks : 100*

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*Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

*Note : Attempt five questions in all. Question No. 1 is compulsory and attempt one question from each unit.*

1. (a) Differentiate between RAM and ROM.
- (b) Differentiate between DOS and UNIX.
- (c) What do you mean by HTTP ?
- (d) What is Backbone network ?
- (e) How structure differ from array ?
- (f) What is User Defined functions ?
- (g) How is a pointer variable declared and initialized?
- (h) What is Command line argument ?

**Unit-A**

2. (a) Write the name of five input device and five output device. Explain any two of them.  
(b) What is microprocessor ? Explain the generation of microprocessor.
3. What is operating system ? What are the various function of operating system ? Explain the different type of operating system.

**Unit-B**

4. (a) Explain OSI reference model.  
(b) Differentiate between
  - (i) Loader and Linker
  - (ii) High level language and Low Level language.
5. (a) Define computer network ? What is network topology ? Explain.  
(b) Explain the different network connecting device.

**Unit-C**

6. (a) WAP that reads N number and find the smallest number among them.  
(b) Explain different types of loop structure with their syntax and example.

7. (a) What is structure ? How is a structure member accessed ? How can a structure member be processed ?
- (b) Explain :
- (i) Union
  - (ii) Array of structure.

### **Unit-D**

8. Explain the following with example :
- (i) Pointer increment and scale factor
  - (ii) Pointer as function argument
  - (iii) Array of pointer
  - (iv) Pointers to function.
9. (a) What are Dynamic memory allocation ? Explain with example.
- (b) WAP to count the number of words, character and lines in a file.