

(Following Paper ID and Roll No. to be filled in your  
Answer Books)

Paper ID : 180218

Roll No. 

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**B.TECH.**

**Theory Examination (Semester-II) 2015-16**

**COMPUTER SCIENCE**

**Time : 3 Hours**

**Max. Marks : 100**

**Note : Attempt all sections.**

**Section-A**

- 1. This section contains ten parts. Attempt all questions.  
Each part carries equal marks. (10×2 = 20)**

- (a) What are the various components of CPU?
- (b) What do mean by Operating System? Give any two examples.
- (c) What are the various generations of programming Language?
- (d) Define classification of Computer.
- (e) What do you mean by Assembler?



- (f) What is the difference between Hardware and Software?
- (g) Who is the Father of 'C' Language?
- (h) What do you mean by a Flow Chart? Explain its various components.
- (i) What are the various Network Topologies?
- (j) What do you mean by DOS?

**2. This section contains Eight parts. Attempt any five parts. Each part carry equal marks: (5×10 = 50)**

- (a) What is a Digital computer. Draw block diagram of a digital computer and explain each component of it.
- (b) Write down 5 differences between RAM and ROM.
- (c) What do you mean by storage media? Explain any 4 with the help of a diagram.
- (d) Explain the main functions performed by the system software of a computer system.



- (e) Write short note on the following:
- (i) MS Power Point
  - (ii) MS Office Tool
- (f) What is absolute cell addressing in a worksheet? How does it differ from relative cell addressing?
- (g) What is the difference between Compiler and Interpreter?
- (h) What is absolute cell addressing in a worksheet? How does it differ from relative cell addressing?

**Section-C**

**This section contains three parts. Attempt any two parts. Each part carry equal marks: (15×2=30)**

3. Perform the following:
- (i) Convert  $(555)_{10} \rightarrow (\text{_____})_{16}$
  - (ii) Convert  $(11011101)_2 \rightarrow (\text{_____})_8$
  - (iii) Convert  $(B678A)_{16} \rightarrow (\text{_____})_8$
  - (iv) Find One's complement of the number 1100100.
  - (v) Write the Two's complement obtained in (iv).



4. Give five advantages of windows over DOS operating environment. Also explain any 5 Internal DOS commands. (15×1=15)
5. State features of Star and Mesh Topologies with respect to : (i) diagrammatic configuration (ii) Operation (iii) Complexity (iv) Ease of installation.

