



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

PAPER ID : 180212

Roll No.

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B. Tech.

(SEM. II) THEORY EXAMINATION, 2014-15 COMPUTER SCIENCE

Time : 2 Hours]

[Total Marks : 50

SECTION-A

- 1 Attempt all questions. All questions carry equal marks.
- (a) What is RAM? Explain its function in computer. 2
 - (b) Explain encryption in brief. 2
 - (c) What is computer network? Which is best network topology and why? 2
 - (d) What is the command to format a drive and make a directory in DOS? 2
 - (e) What is operating system? Whether it is hardware, software or a firmware? 2

SECTION-B

- 2 Attempt any three questions. Each question carry equal marks.
- (a) What are the applications of a computer system? Explain any five applications. 5
 - (b) What is flow chart? Explain all of its symbols. 5
 - (c) Explain in details waterfall model. 5
 - (d) What is an adder? Explain its working. 5
 - (e) What are various storage devices? Explain each. 5

SECTION-C

- 3 Attempt all questions. Each question carry equal marks.
- (a) (i) What are the characteristics of a computer system? Explain in detail. 5

OR

- (ii) Differentiate between a software and a hardware. 5
- (b) (i) Write short note on types of computers. 5

OR

- (ii) Explain about any two encryption and decryption techniques. 5

- (c) (i) Convert the following.
- (1) $(1001010)_2 = ()_{10}$
 - (2) $(6532)_8 = ()_2$
 - (3) $(AE6)_{16} = ()_{10}$
 - (4) $(1101101)_2 = ()_{16}$
 - (5) $(2156)_8 = ()_{16}$

OR

- (ii) Explain BCD code with example.
- (d) (i) Write short note on MS Office tools. **5**

OR

- (ii) Write short note on E-Commerce. **5**
- (e) (i) Explain memory hierarchy in details. **5**

OR

- (ii) What is DFD ? Why and where it is used? **5**
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