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Printed Pages – 4

- Q. 4. (a) Explain Public Key cryptography.
- (b) Draw the basic model for FTP and explain it.
- (c) Write the function of session layer and draw the format of SPDU.

- Q. 5. (a) Explain FDDI in-brief.
- (b) What is x.25 network and its feature.
- (c) Write short notes on SONET.

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**BE (6<sup>th</sup> Semester)**

**Examination, April-May, 2014**

**Branch : CSE**

**COMPUTER NETWORK**

*Time Allowed : Three Hours*

*Maximum Marks : 80*

*Minimum Pass Marks : 28*

**Note :** All questions are compulsory, having equal marks 8 each. Theory answer should be to the point and not more than 120 lines excluding diagram. Draw the clean and neat diagram wherever required.

- Q. 1. (a) Explain OSI Reference model with diagram
- (b) Explain the following term (in 2 to 5 lines only) :

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Active Hub

Intelligent Hub

Global WAN

Enterprise WAN

(c) (i) Define the term PROTOCOL and its key element. CSVTUonline.com

(ii) What are the Duties of physical layer (any 3)? Give the name of devices which work on physical layer (any 2 device).

Q. 2. (a) Identify the various fields of the following HDLC frame.

01111110\_10111110\_10111011\_11100111\_11011111\_

01111101\_00000001\_111110

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(note “\_” is used for readability have no special meaning)

(b) A channel has bit rate of 4kbps and propagation delay of 20 msec. for what range of frame size does STOP and WAIT gives an efficiency of at list 50 percent.

(c) Explain GO-BACK-TO-N ARQ with normal operation example. CSVTUonline.com

Q. 3. (a) Write difference between Virtual Circuit and Data Gram switching.

(b) Explain count-to-infinity problem.

(c) What is RPC explain with diagram.

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