



BE-3576

B. C. A. (Sem. V) (CBCS) Examination

October / November – 2017

Network Technologies - 503

(New Course)

Time : 2 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशवले निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
B. C. A. (SEM. 5) (CBCS)

Name of the Subject :  
NETWORKTECHNOLOGIES - 503

Subject Code No. 3 5 7 6 Section No. (1, 2,.....) NIL

Seal No. :  
[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Student's Signature

- (2) Write to the point.  
(3) Provide examples and diagram wherever appropriate/necessary.  
(4) Figures to the right indicate full marks of the question.

1 Attempt following : 10

- (1) Explain broadcast network with examples.
- (2) Define Transmission Media with the help of classification diagram.
- (3) Explain subnet mask.
- (4) Give uses of Hub and Gateway.
- (5) What do you mean by broadcast and multicast ?

2 Answer the following questions : (any four) 20

- (1) Explain Symmetric Key Cryptography in detail.
- (2) Differentiate between Router and Bridge.
- (3) What is Header ? Explain each fields of UDP header.
- (4) Explain peer to peer networks. Explain the advantages and disadvantages of it.
- (5) Explain tree (star-bus) topology in detail. Also give advantages and disadvantages.

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[ Contd.....

**3** Answer the following questions in detail : (any **three**) **24**

- (1) Explain Physical Layer with its functions, protocols and network devices of OSI Model.
- (2) Explain Wired Media. Explain Coaxial Cable with its diagram, functions, applications, advantages and disadvantages.
- (3) Explain Wired Media. Explain Optical Fibre Cable with its diagram, functions, applications, advantages and disadvantages.
- (4) Explain Network Layer with its functions, protocols and network devices of OSI model.

**4** Short note : (any **two**) **16**

- (1) Unguided Media
- (2) TCP/IP Model. Also compare it with OSI model.
- (3) Explain in detail : digital certificate