



**DPP-5709**  
**M. C. A. (Sem. II) Examination**  
**March / April - 2016**  
**Paper - 205 : Computer Networks**  
**(Old & New Course)**

Time : 3 Hours]

[Total Marks : 70

**Instruction :**

<p>नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य लखवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : ☛ <b>M. C. A. (SEM. 2)</b></p> <p>Name of the Subject : ☛ <b>Paper - 205 : Computer Networks (Old &amp; New)</b></p> <p>☛ Subject Code No. : <b>5</b> <b>7</b> <b>0</b> <b>9</b> ☛ Section No. (1, 2,.....) : <b>Nil</b></p>	<p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; width: 100%;">Student's Signature</div>
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- 1 Do as directed : 14
- (a) Explain the following terms : (any five) 10
- (1) 1000BaseT
  - (2) CDMA
  - (3) PGP
  - (4) VLAN
  - (5) ICMP
  - (6) NSAP.
- (b) Discuss with examples, different types of network services. 4
- 2 Attempt any two from the following : 14
- (a) Which are the error detection schemes ? Discuss CRC. 7
- (b) Which are the various multiplexing schemes ? 7  
Explain them.
- (c) Discuss stop-and-wait ARQ mechanism of frame transfers at both sender and receiver sides. 7

- 3** Do as directed : **14**
- (a) Explain Distance vector routing algorithm. Also discuss count-to-infinity problem. **7**
  - (b) Write a note on Ethernet, its cabling and various Ethernet network types. **7**
- OR**
- (b) Write a note on Satellite Networks. **7**
- 4** Attempt any two from the following : **14**
- (a) Explain any one of the static routing algorithms.
  - (b) What is QOS at Transport layer ? Also discuss the techniques to improve the QOS.
  - (c) Which are the categories of cryptography methods ? Discuss any one.
- 5** Attempt the following : (any two) **14**
- (a) Data Compression Techniques.
  - (b) OSI Reference Model
  - (c) Guided Media.
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