

**B.Tech. SEM -V ( Computer) 2014 Course (CBCS) : WINTER - 2018**  
**SUBJECT : COMPUTER NETWORK**

Day : Tuesday  
Date : 27/11/2018

**W-2018-2391**

Time : 02.30 PM TO 05.30 PM  
Max. Marks : 60

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**N. B. :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labeled diagram **WHEREVER** necessary.
  - 4) Assume suitable data, if necessary.
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**Q. 1** Explain working of internet. (10)

**OR**

Explain in detail: ISO-OSI reference model (10)

**Q. 2** What is error detection? Explain it by considering some example. (10)

**OR**

What is framing? Explain the structure of frame. (10)

**Q. 3** What is MAC layer? Explain the role of MAC in Ethernet. (10)

**OR**

Write a short note on: (10)

- i) Pure ALOHA
- ii) Slotted ALOHA

**Q. 4** Calculate network address of following information. (10)

IP address: 192.168.1.2  
Subnet: 255.255.255.0

**OR**

Calculate network address of following information. (10)

IP address: 192.168.4.5  
Subnet: 255.255.255.0

**Q. 5** Compare connection oriented and connection less protocols (10)

**OR**

Explain TCP header format in detail. (10)

**Q. 6** Explain DNS in detail. (10)

**OR**

Explain complete working of web browser. (10)

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