

**D 91931**

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Name.....

Reg. No.....

**THIRD SEMESTER B.VOC. (PROGRAMME) DEGREE EXAMINATION  
NOVEMBER 2019 AND 2020**

Software Development

SDC 3IT 09—BASIC NETWORKING CONCEPTS

Time : Three Hours

Maximum : 80 Marks

**Section A**

*Answer all questions.*

*Each question carries 1 mark.*

1. Transmission media is classified in to two as \_\_\_\_\_ and \_\_\_\_\_.
2. A television broadcast is an example for \_\_\_\_\_ transmission.
3. In \_\_\_\_\_ switching all data grams of a message follows the same channel of a path.
4. An error detection is usually done in the \_\_\_\_\_ layer of the OSI model.
5. In stop and wait ARQ, if data 1 has an error, the receiver send a \_\_\_\_\_ frame.
6. In ARP dynamic mapping method that finds a \_\_\_\_\_ address for a \_\_\_\_\_ address.
7. What is the full form of HTTP ?
8. Which of the following is flow characteristics ?
  - (a) Reliability.
  - (b) Delay.
  - (c) Jitter.
  - (d) All the above.
9. In public key encryption, public key used for \_\_\_\_\_.
10. What does MIME stands for ?

(10 × 1 = 10 marks)

**Section B (Short Questions)**

*Answer any eight questions.*

*Each question carries 2 marks.*

11. Define bandwidth and frequency.
12. What is a protocol and protocol stack ?
13. What do you mean by periodic and aperiodic signals ?
14. Write short note on burst error.

**Turn over**

15. Briefly explain basic mechanism for congestion control ?
16. What is sub net mask ?
17. What is selective flooding ?
18. What do you mean by remote login ?
19. What is DNS ?
20. Write short note on FTP.
21. What do you mean by symmetric key cryptography ?
22. List the uses of digital signature.

(8 × 2 = 16 marks)

### Section C

*Answer any **six** questions.  
Each question carries 4 marks.*

23. Briefly explain various switching methods in networks.
24. Explain various network topology in detail.
25. Write in detail sliding window protocol.
26. Explain in detail ALOHA and its types.
27. Explain Address Resolution Protocol (ARP).
28. Write short note on SCTP.
29. Explain TCP connection ?
30. Name and explain different type of cryptography
31. Explain Mpeg and Mpeg frame.

(6 × 4 = 24 marks)

### Section D

*Answer any **two** questions.  
Each question carries 15 marks.*

32. With suitable diagram explain ISO OSI model, explain functions of each layer.

*Or*

33. Explain different congestion handling techniques in open loop and close loop algorithm.
34. Explain in detail UDP .

*Or*

35. Explain the significance of firewall ? Explain the categories of fire walls.

(2 × 15 = 30 marks)