20NMB09

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BVoc DEGREE EXAMINATION MAY 2022
(Second Semester)

Branch – **NETWORKING AND MOBILE APPLICATION**

DATA COMMUNICATION AND NETWORKING

Time: Three Hours Maximum: 50 Marks

SECTION-A (5 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks (5 x 1 = 5)

1. Which of the following layers is an addition to OSI model when compared with TCP IP model?
   (i)Application layer (ii) Presentation layer
   (iii)Session layer (iv) Session and Presentation layer
2. Multiplexing is used in _____
   (i) Packet switching (ii)Circuit switching
   (iii)Data switching (iv) Packet & Circuit switching
3. The HTTP request message is sent in _____ part of three-way handshake.
   (i)First (ii) Second
   (iii)Third (iv) Fourth
4. TCP process may not write and read data at the same speed. So we need _____ for storage.
   (i)Packets (ii) Buffers
   (iii)Segments (iv)Stacks
5. Which field helps to check rearrangement of the fragments?
   (i)Offset (ii)flag
   (iii) ttl (iv) identifier

SECTION - B (15 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 3 = 15)

6. (a) Discuss about Network addressing in detail.

   (OR)

   (b) Explain about internet in detail.

7. (a) Comment on Digital signals with necessary theory.

   (OR)

   (b) Write a note on unguided media transmission.

8. (a) Brief about Bluetooth.

   (OR)

   (b) Explain in detail about HDLC.

9. (a) Explain the on Internetworking in detail.

   (OR)

   (b) Describe the need for delivery forwarding.

10. (a) Discuss about HTTP in detail.

    (OR)

    (b) Give the working principles of UDP.

Cont...

SECTION -C (30 Marks)

Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 6 = 30)

11. a) Describe OSI reference model in detail.

(OR)

b) Give a clear view on types of network models.

12. a) Discuss about guided media transmission in detail.

(OR)

b) Explain multiplexing in band width utilization.

13. a) Elucidate on error correction and detection in detail.

(OR)

b) Write in detail about framing in data link control.

14. a) Explain about IPV4 and IPV6 addresses.

(OR)

b) Illustrate on address mapping in detail.

15. a) Explain the functioning of domain name system.

(OR)

b) Discuss about TCP with suitable example.

Z-Z-Z END