

SARDAR PATEL UNIVERSITY

M.Sc. IT (Semester-3)

Subject : PS03CINT02

Data Communication & Networking

Date: 23-April-2015 Total Marks: 70

Time : 2.30pm -5.30pm

Q.1 Give answers of following Multiple Choice Questions. [08]

- 1 _____ Layer is responsible for Process-To-Process delivery of the entire message.
A. Data link B. Physical C. Network D. Transport
- 2 FTP uses TCP port no _____ control connection.
A. 19 B. 20 C. 21 D. 22
- 3 In which generation of cellular telecom network, digital ratio signals were introduced?
A. 1 G B. 2 G C. 3 G D. 4 G
- 3 The extension of WAP image file is _____
A. .wbm B. .wbmp C. .jpg D. None of these
- 4 Acronym of OMG is _____
A. Object Management Group B. Object Master Group
C. Objective Manager Group D. None of these
- 5 WSP is binary versions of _____
A. HTML B. XML C. WML D. HTTP
- 6 Full form of GPRS is _____
A. General Package Radio Service
B. General Package Radio System
C. General Packate Radio Server
D. General Packate Radio System
- 7 A packet in IPV4 is called
A. Datagram B. Datamart C. Datablock D. Datablock
- 8 Which of the following is NOT the categories of Satellites?
A.GEO B.LEO C.MEO D.FEO

Q.2 Answer the following Short Questions. (Attempt any Seven) [14]

- 1 List all layers of OSI model.
- 2 What is the function of MIME?
- 3 What is SMS? Explain in brief.
- 4 What is Bluetooth? Explain in brief.
- 5 What is distributed computing? Give names of distributed computing standards.

- 6 Differentiate between OSI and TCP/IP reference models.
- 7 Define: Bluetooth, Satellite Network
- 8 Discuss Performance Management in brief.
- 9 What is the purpose of FTP?

Q.3[A] What is OSI model? Explain Datalink layer and Network layer with its responsibilities. [06]

[B] Explain internet protocol structure of IPV4 in detail. [06]

OR

[B] Explain TCP Segment Header. [06]

Q.4 [A] What is Satellite Networks? Explain various categories of satellite networks in brief. [06]

[B] Explain OMG reference model. [06]

OR

[B] Explain following. [06]

1. Bridge
2. Router

Q.5 [A] Explain CORBA architecture in detail. [06]

[B] What is WAP? Explain WAP architecture. [06]

OR

[B] Discuss Design issues of DCOM. [06]

Q.6 [A] Write a short note on Digital Cellular Radio. [06]

[B] Explain any five WML elements in brief. [06]

OR

[B] What is WML? Explain WML Document Structure.