# SARDAR PATEL UNIVERSITY <br> Masters in Information Technology (IT) 

III Semester Examination - 2012
PS03CINT02 Subject: Data Communication and Network
Monday, 3-December-2012
Max. Marks: 70
Time: 10:30 a.m. to 1:30 p.m.

## Q-1 Answer the following

1) $A$ $\qquad$ is a set of device connected by communication links.
a) Network
b) Node
c) Router
d) Bridge
2) What does OSI stands for?
a) Open Stage Interconnection
b) Open System Interconnection
c) Open Surface Interconnection
d) Open Systems Interface
3) Which of the following are the notations of IPv4?
a) binary notation
b) dotted decimal notation
c) $\mathrm{a} \& \mathrm{~b}$
d) None of These
4) A Packet in the IPV4 is called $\qquad$ .
a) Datagrams
b) Data Marts
c) Data Block
d) None of These
5) The $\qquad$ model is a layered framework for the design of networks system that allows communication between all types of computers.
a) 1 SO
b) $T C P / / P$
c) OSI
d) UDDI
6) WSP is binary version of $\qquad$ .
a) HTML
b) XML
c) WML
d) $\mathrm{H} T \mathrm{P}$
7) The full form of WTA is $\qquad$ .
a) Wireless Transport Application
b) Wireless Transfer Adaptor
c) Wireless Telephony Application
d) None of the these
8) Full form of GPRS is $\qquad$ .
a) General Package Radio Service
b) General Packet Radio Server
c) General Package Radio System
d) General Packet Radio System

Q-2 Answer Following Questions (Any Seven)

1) Give the difference between IPV4 V/S IPV6.
2) What is the function of Repeater and Gateway?
3) What is SMS? Explain in brief.
4) List all the layers of OSI model.
5) Write a short note on Jinni Technology.
6) What is UDP and give main purpose.
7) Give brief idea about Bluetooth.
8) Define Gateway and give main function of it.
9) List and explain any one function performed by Session Layer.

Q-3 A Explain Following Protocols.

1. SMTP 2. FTP

Q-3 B Explain IP header in detail.
Q BR
Q-3 B What do you mean by Congestion? Explain Congestion control policy. Explain Congestion in TCP Model.

Q-4A Explain Following

$$
\text { 1. Bridge } \quad \text { 2. Router }
$$

1. Bridge 2. Router

Q-4 B Explain TCP/IP Reference Model.
Q4B Explain TCP/iPReference Model.
OR
Q-4 B Explain Satellite Networks in detail.

Q-5 A Write a note on Comparison between TCP and OSI Model.
Q-5 B Explain any five WML elements in brief.
OR
Q-5 B Explain OMG reference Model.

Q-6 A Explain WAP Protocol Stack in detail.
Q-6 B Explain CORBA architecture in Detail.
Q-6 B Discuss Design Issues of DCOM.

