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SARDAR PATEL UNIVERSITY

M.Sc. IT (Semester-3) Examination

PS03CINT02 : Data Communication & Networking

05-April-2016

Time : 2.30pm - 5.30pm

Total Marks: 70

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

- 1 TCP/IP reference model has _____ layers.
A. 2 B. 4 C. 7 D. 3
- 2 A IPV6 is _____ bit address that defines the connection to the internet.
A. 64 B. 32 C. 128 D. 256
- 3 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
- 4 In which generation of cellular telecom network, digital radio signals were introduced?
A. 1 G B. 2 G C. 3 G D. 4 G
- 5 The extension of WAP image file is _____
A. .wbm B. .wbmp C. .jpg D. None of these
- 6 Acronym of CORBA is _____
A. Common oriented request broker architecture
B. Common object request break architecture
C. Common object request broker architecture
D. Common object request broker access
- 7 WSP is binary versions of _____
A. HTML B. XML C. WML D. HTTP
- 8 A repeater regenerates signals but it does not have _____ facility.
A. traveling B. Deleting C. Generating D. Filtering

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

- 1 What are the responsibilities of Data link layer of OSI model?
- 2 What is the function of MIME?
- 3 Define: Bluetooth, Satellite Network.
- 4 Draw WAP Architecture.
- 5 Explain in brief the concept of COM.
- 6 What do you mean by Jini Technology?
- 7 What are the differences between OSI and TCP/IP reference models?
- 8 Explain Configuration Management in brief.
- 9 Define Gateway. Explain its main functions.

- Q.3[A]** Write a short note on : (i) Repeater (ii) Router [06]
- [B]** What are the deficiencies of IPV4? Explain IPV6 header in detail. [06]
- OR**
- [B]** Explain HTTP. [06]
- Q.4 [A]** What is Satellite Networks? Explain various categories of satellite networks in brief. [06]
- [B]** What is WML? Explain it's any four tags. [06]
- OR**
- [B]** Discuss the Elements WAP protocol. [06]
- Q.5 [A]** Explain OMG reference model. [06]
- [B]** What is WAP? Explain WAP architecture. [06]
- OR**
- [B]** Discuss Design issues of DCOM. [06]
- Q.6 [A]** Explain CORBA architecture in detail. [06]
- [B]** Write a short note on Digital Cellular Radio. [06]
- OR**
- [B]** Differentiate between COM and Client Server model. [06]

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