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No. of Printed Pages: 01

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**SARDAR PATEL UNIVERSITY
T.Y.B.B.A. (ISM) SEM - V EXAMINATION**

**Monday, 16 March 2015
10.30 A.M. to 12.30 P.M.**

Data Communication and Computer Network – I: UM05CBBS02

Maximum Marks: 60

- Q.1
(a) What is Computer Network? How OSI model works in Computer Network? Explain it. (10)
(b) List IEEE standards and explain them. (5)
OR
- Q.1
(a) What is LAN? Describe Components of LAN. (6)
(b) What is Network? Explain Architecture of Layered (5)
(c) How Internet model is used to communicate? Explain it. (4)
- Q.2
(a) What is Multiplexing? Explain Time Division Multiplexing in detail. (8)
(b) Write down difference between Analog Signal Vs. Digital Signal (7)
OR
- Q.2
(a) List various Guided Media and Explain Twisted pair cable in detail. (6)
(b) Write a note on Transmission Impairments. (5)
(c) How Error Detection method supports for Data Transmission? (4)
- Q.3
Write notes on following.
1. BUS topology (7)
2. Hybrid topology (8)
OR
- Q.3
Write notes on following.
1. STAR topology (7)
2. RING topology (8)
- Q.4
(a) Write a note on Switch. (8)
(b) Write down difference between Hub and Switch (5)
(c) Definition: Router, Bridge (2)
OR
- Q.4
(a) Write a note on Gateways. (8)
(b) Write down difference between Router and Bridge. (5)
(c) Definition: Switch, Hub (2)