

# Government College of Engineering, Aurangabad

(An Autonomous Institute of Government of Maharashtra)

## M.E.(Computer Science and Engineering) Examination

End Semester Examination Dec 2016

CS-544: Advance Computer Network (Rev)

Time : Three Hours

2 DEC 2016

Max Marks : 60

"Verify the Course Code and check whether you have got the correct question paper"

N.B.

1. All the questions are compulsory
2. Figure to the right indicate full marks
3. Assume suitable data if necessary and state it clearly

**Q.1.** Attempt any two.

- A) How do the layers of the Internet model correlate to the layers of the OSI model? 6
- B) Discuss the communication at physical layer in details. 6
- C) Why IP is called unreliable and connectionless datagram protocol? Discuss the position of IP in TCP/IP protocol suite. 6

**Q.2.** Attempt any two.

- A) Clarify Unicast, Multicast, and Broadcast Addresses. And define the type of following destination addresses: 6
  - I) 4A:30:10:21:10:1A
  - II) 47:20:1B:2E:08:EE
- B) Illustrate Dotted-Decimal Notation: Base 256 and Hexadecimal Notation: Base 16 with suitable example in IPv4 addresses. 6
- C) Give details on Socket programming and where socket is used? 6

**Q.3.** Attempt all.

- A) Discuss in details, how real time traffic can be controlled by Real-time Transport Protocol (RTP). 6
- B) Describe in details the concept of SNMP manages the manager and agent. 6

**Q. 4.** Attempt all.

- A) Discuss the standards of wireless network and also define the different types of wireless network. 6
- B) Discuss in details the structure of wireless sensor network. 6

**Q.5.** Attempt all.

- A) What is Symmetric key cryptography? Demonstrate the DES algorithm in detail. 6
  - B) Classify the signing whole document and signing the digest in digital signature. 6
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