

**DIPLOMA – VIEP – COMPUTER SCIENCE AND
ENGINEERING (DCSVI)/ADVANCED LEVEL
CERTIFICATE COURSE IN COMPUTER
SCIENCE AND ENGINEERING (ACCSVI)**

Term-End Examination

00924

December, 2017

BICS-031 : BASICS OF NETWORKING

Time : 2 hours

Maximum Marks : 70

Note : *Attempt any **five** questions. Each question carries equal marks.*

1. (a) Describe in brief about LAN, MAN and WAN. 7
(b) Explain various network components. 7
2. (a) Compare and contrast OSI with TCP/IP. 7
(b) How do you maintain a centralized system for sharing resources? 7
3. (a) What is a Topology ? Explain Bus topology and Ring topology. 7
(b) Compare and contrast Hubs, Switches and Routers. 7
4. (a) Discuss about various guided media. 7
(b) Explain microwave communication. 7

5. (a) What is an OSI reference model ? Explain Encapsulation terminology. 7
- (b) Compare and contrast Horizontal and Vertical communication. 7
6. (a) Explain ARP protocol. 7
- (b) Distinguish between UDP and TCP. 7
7. Write short notes on any **four** of the following : $4 \times 3 \frac{1}{2} = 14$
- (a) MAC Address
- (b) HUB
- (c) Optical Fibre Cable
- (d) Network Address
- (e) Subnet Masking
-