No. of Printed Pages : 2

BICS-031

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

Term-End Examination

00383 **December, 2016**

BICS-031 : BASICS OF NETWORKING

Time : 2 hours *Maximum Marks : 70*

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

1. (a) What do you understand by a computer network ? Explain the criteria and targets of a computer network. 7

(b) State the features of star and mesh topologies with respect to the following : 7

(i) Diagrammatic configuration

(ii) Operation

(iii) Complexity

(iv) Ease of installation

2. (a) Explain the various types of network topologies. 7

(b) Define network classification. Compare LAN and WAN in detail, with their advantages. 7

3. (a) With a neat sketch/diagram explain the operation of a peer-to-peer network. State its advantages over a server based network. 7

(b) Differentiate between guided and unguided media. 7

4. (a) What is a twisted pair ? Explain UTP in detail. 7

(b) State four features of TCP. 7

5. (a) Explain the basic components of data communication. 7

(b) Describe the communication based in the cellular technology. 7

6. (a) What are the advantages and disadvantages of optical fiber ? 7

(b) Where is the unguided media more suitable than guided media ? Explain. 7

7. Write short notes on any ***four*** of the following : $4 \times 3\frac{1}{2} = 14$

(a) SMTP, POP

(b) Subnet Masking

(c) DNS

(d) ICMP

(e) Data Encapsulation