No. of Printed Pages : 2

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

Term-End Examination

June, 2015

00405

BICS-031

BICS-031 : BASICS OF NETWORKING

Time : 2 hours

Maximum Marks: 70

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

1.	(a)	Compare and contrast OSI with TCP/IP.	7
	(b)	With the help of appropriate examples, explain the various types of connection oriented and connectionless services.	7
2.	(a)	Define optical fibre and its principle. Draw a cross-section diagram of optical fibre. Write its advantages and disadvantages.	10
	(b)	Discuss the various transmitting and receiving operations in brief.	4
3.	(a)	What is meant by topology ? Explain the various types of topologies with neat diagrams.	7
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	(b)	Explain clearly how networks are classified by their component role, with proper diagrams.	7
4.	(a)	Define a protocol. What are the functions of TCP, IP, ARP and SLIP ?	7
	(b)	What is the type of service that is required for compressed audio and video ? Explain.	7
5.	(a)	What is a computer network ? Write the benefits of network in detail.	7
	(b)	Explain how the information and resources are shared in a network.	7
6.	Expla	in the following : $4 \times 3\frac{1}{2} =$	-14
6.	Expla	in the following : $4 \times 3\frac{1}{2} =$ IP Addressing	:14
6.		2	-14
6.	(a)	IP Addressing	:14
6.	(a) (b)	IP Addressing Gateway	=14
6 . 7.	(a) (b) (c)	IP Addressing Gateway UTP	-14

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