GOA VIDYAPRASARAK MANDAL'S

GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS, PONDA - GOA

B.C.A. (SEMESTER- IV) EXAMINATION JUNE 2022

DATA COMMUNICATIONS

Duration: 2 Hours	Marks: 60
 Q.1. A) Fill in the Blanks: a) In mode, simultaneous transmission and reception of messages can happen. b) In cryptography, the same key is used by both the parties. c) The combination of an IP address and a port number is called a address. d) In protocol, the sender does not know if a message has been lost or duplicated. e) The universal port numbers used for servers are called port numbers. 	(5x1=05)
 B) Define the following: a) Data Communication. b) Firewall. c) Phishing. d) Address Space. e) Connection Oriented Service. 	(5x1=05)
Q.2. Answer the following:A) State the components of Data Communication. Draw a neat diagram for the same.B) Explain the categories of network.C) Write a short note on any two network topologies.	(02) (03) (05)
Q.3. Answer the following:A) Differentiate between Intranet and Extranet.B) Explain the working of ARP protocol.C) With the help of a neat diagram, explain Physical Addressing.	(02) (03) (05)
Q.4. Answer the following:A) Explain in brief the working of DNS.B) Draw a neat diagram for IPV4 Header and explain any two fields.C) With the help of a neat diagram, explain the data exchange using OSI Model.	(02) (03) (05)
 Q.5. Answer the following: A) State the two prevalent notations to show an IPv4 address. Convert the given address from to another. Address: 01110101 10010101 000011101 00000010 B) With the help of a neat diagram, explain the UDP Header. C) Write a short note on Connecting Devices. 	m one notation (02) (03) (05)
 Q.6. Answer the following: A) Explain Multiplexing and Demultiplexing. B) What happens when a TCP segment is lost. C) Write a short note on Network Address Translation. 	(02) (03) (05)