**J-9/2050**

INTRODUCTION TO COMPUTER NETWORK, INTERNET AND E-COMMERCE-202

(Semester–II)

Time : Two Hours]                    [Maximum Marks : 70

**Note** : Attempt any *four* questions. All questions carry equal marks.

I.    (a)   State the reasons why network layer and transport layer in OSI model are kept as two distinct layers even though their services are so similar.

      (b)   What do you mean by the term network topology? Explain the bus topology along with its advantages and disadvantages.

II.   Explain in detail the TCP/IP reference model.

III.  (a)   Explain in detail the Domain Name Space in Domain Name System.

      (b)   Explain the difference between bridge and repeater.

IV.   How DNS service maps domain names to IP addresses.

V.    Describe the term E-Commerce. What are the various social and economic impacts of E-Commerce?

VI.   What do you mean by electronic payment system? Explain its characteristics. Also compare it with traditional payment system.

VII.  Explain the Infrastructure of E-commerce in detail.

VIII. What are the major steps involved in an online credit card transaction? Explain.

IX.   (a)   What is personal area network used for?

      (b)   What is the purpose of intranet?

      (c)   What is search engine? Name top 5 search engines.

      (d)   How do repeaters work in networking?

      (e)   What is b2b in simple words? What is an example of a business to business company?

      (f)   What is a payment gateway? Which payment gateway is best?                                               ?

      (g)   What is the risk in electronic payment system?

      (h)   Who first started Internet? Why was the Internet created?

      (i)   What are the types of Web browser?

      (j)   How does IP addressing work?

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