MID SEMESTER EXAMINATION MARCH -2017
COE-411 : COMPUTER COMMUICATION & ELECTRONIC SWITCHING

TIME: 1.30 Hrs.   **Max. Marks: 20**

NOTE: Attempt all questions. All questions carry equal marks. Assume suitable missing data, if any.

1. [a] Explain the function of each layer of ISO-OSI Reference Model.
   [b] Compare TCP/IP Model with ISO-OSI Reference Model.

2. [a] Compare Pure ALOHA, slotted ALOHA and reserved ALOHA. Indicate the throughput.
   [b] (i) With reference to Data Link Control compare Noiseless Channels with Noisy Channel.
      (ii) Explain Stop and Wait, Go-Back-N and Selective protocol.

3. [a] Compare Guided Media with Unguided Media.
   [b] Give the advantages and disadvantages of Coaxial Cable and Fiber Optics.

4. [a] Compare TDMA, FDMA and CDMA.
   [b] Compare CSMA/CD with CSMA/CA.

5. Write Short notes on any Two
   a) Network Topologies
   b) Switching Methods
   c) Controlled Access Protocol
   d) Cyclic Redundancy Check (CRC)

Roll No..281/co/13   Date...............

B.E. (Computer Engineering–VIIIth Semester)

Mid Semester Examination –March 2017

COE– 412 (Software Engineering)

Max. Marks -20   Time – 1 ½ Hours

Note : **Attempt All questions.**

Q1. Explain briefly the different stages of Software Development Lifecycle. Also state the output of each stage.   (2)

Q2. Define Requirement. Explain different types of requirements by giving suitable example of each.   (3)

Q3. (a) What is the importance of Software Process Models? Explain in detail incremental Model. List its Strengths and weakness.

(b) Which Process Model You will use to write software for X Ray Machine. Justify your answer.   (3+1)

Q4 . Explain in detail different requirement elicitation techniques discussed in class   (4)

Q5. Explain the model used to model the static view of a problem domain. For the requirements given below draw the static view.

It is proposed to automate the working of a shop dealing in sports goods.. The shop sells the goods of several companies. The companies can register with the shop by paying a nominal amount. From time to time the companies also offer schemes to the shop dealer on the items supplied by the company. Depending upon the requirements the manager of the shop compiles the order of the sports goods to be purchased and places the order with the different companies. The companies in response to the order deliver the products and submit an invoice for payment. The shop also keeps record of the customers who visit or purchase the products from the shop. There are also several schools and colleges who regularly purchase goods from the shop. The customers who make purchase worth Rs. 50000/= in a year are given Gold card and are called Gold customers. The shop offers special discounts to the gold customers. The customers can purchase the product through cash or credit card. From time to time the shop manager also informs the customers about the discounts, schemes etc. if any to the customer by sending emails and SMS. The shop also gives high priced sports goods on rent. At the end of every month an inventory report and sale report is also generated and send to Manager and Owner for review.

                                    (3+4)

MID SEMESTER EXAMINATION, MARCH-2017

VIII Sem. BE (COE)

CoE-413 CO-818: Expert System

Time: 1:30 Hrs.   Max. Marks: 20

*Note: Attempt **any two** questions. Question No. 3 is compulsory.*

1.
   a) What is an Expert System? Describe all the components with the help of a block diagram. [4]

   b) What is Control Strategy and how it is used to develop the systems? [3]

   c) Differentiate AI, Expert System and Knowledge based system [3]

2.
   a) Differentiate Data Processing with Knowledge Processing. [4]

   b) Explain various stages of Knowledge Acquisition [6]

3. Describe the following terms: [10]
   a) Heuristic
   b) Production Rules
   c) Knowledge
   d) Predicate Logic
   e) Inference

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