TETSEM Il complessation

23/05/2016

QP Code: 31134

| | (3 Hours) | <u>*</u> |
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| lote: | • | rotal marks : ಕರ |
| • | Question No. 1 is compulsory. | |
| • | Attempt any Three questions out of remaining questions. | |
| •, | Make suitable assumptions whenever necessary. | |
| | | and the second |
| | Q1: | [4X5] |
| | a) Compare connection oriented and connectionless services. b) Explain in short Subnetting. | |
| | c) Explain in short different framing Methods. | |
| | d) Explain in short TCP/IP Model. | |
| | e) What is the use of SSH? | |
| | Q2: | |
| | a) Explain any four functions of Data Link layer with example. | [10] |
| | b) What is IPv4 protocol? Explain the IPv4 Header format with diagra Q 3: | m. [10] |
| | a) Explain Classless Inter Domain Routing (CEOR). | [10] |
| | b) Discuss the quality of service parameters in computer network. | [10] |
| | Q 4: | |
| | | |
| | a) What are the steps involved in link state routing. Explain the conten | ts · |
| | and requirements of link state packets. | [10] |
| | b) Compare Open Loop congestion control, Closed Loop congestion of Q 5: | control.[10] |
| | a) Write a Program for client-server application using Socket Progra | mming(TCP) |
| | | [10] |
| | b) An ISP is granted a block of addresses starting with 150.80.0.0/16. | |
| | The ISP wants to distribute these blocks to 2600 customers as f | |
| | a. The first group has 200 medium-size businesses; each needs b. The second group has 400 small businesses; each needs 16 | 128 |
| | c. The third group has 2000 households; each needs 4 address | ses Design the |
| | subblocks and give the slash notation for each subblock. Find of | out how many |
| | addresses are still available after these allocations. | [10] |
| | | |
| | Q 6: Write short notes on the following. | [5X4] |
| | | |
| | a) Virtual LAN b) FDDI | |
| | c) BGP | |
| | d) SNMP | |
| e de | LEGEON | |
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| | (2 3 MAY 70%) | <u> </u> |
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TEISEM VI CBSG/COMP/SOOAD 27/05/2016

QP Code: 31175

(3 HOURS)

[Total Marks: 80]

| N.B.: (1) Question no. 1 is compulsory. | |
|---|--------|
| (2) Attempt any three questions from remaining. | |
| (3) Assume suitable data wherever necessary. | |
| Q1. (a) What is UML? Explain role of different UML diagrams in system design. | (10) |
| (b) Explain DFD (up to two levels) with suitable example. | (10) |
| | |
| Q2. (a) Explain different requirement gathering techniques used in system analysis. | (10) |
| (b) Explain software development life cycle used for system analysis | (10) |
| | |
| Q3. (a) What is cost benefit analysis? Illustrate any one model of cost benefit analysis. | (10) |
| (b) Explain Zachman's framework for software system design. | (10) |
| | |
| Q4.(a) Draw the use case diagram of a library management system with extend, include | e and |
| generalize relations between use cases. | (10) |
| (b) What are characteristics of good graphical user interface? Draw GUI for or | nline |
| course registration system. | (10) |
| | |
| Q5.(a) Assume that the hospital management system is deployed using 3 tier architec | ture, |
| explain its various components and its deployment with the help of diagrams. | (10) |
| (b) Draw the sequence diagram for login procedure to a system. Include all pos | ssible |
| scenarios and draw its activity diagram also. | (10) |
| | |
| Q6. (a) Define cohesion and coupling in system design? High cohesion and low coupl | ing is |
| recommended for good system design. Justify. | (10) |
| (b) Your college wishes to prepare and maintain the database system to track progre | ess of |
| the students who were recruited through college training and placement | cell. |
| Prepare the proposal to design above system. | (10) |
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FW-Con. 11338-16.

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TEISEM I/ comp/ CBS 45/ Microprocessor 17/05/2016 QP Code: 31091

(80 Marks) (3 Hours)

| • | | on no. 1 is compulsory. | |
|-----|--------------|---|------|
| • | Answe | r any three questions from question no. 2 – 6. | i.e. |
| • | Assum | e suitable data, If necessary. | J. |
| Q.1 | L. Ar | nswer following questions in brief. | (05) |
| • | a. | Explain programming model of 8086. | (05) |
| | b. | Explain V86 mode of 80386DX. | (05) |
| | c. | Explain, in brief, pipeline stages on Pentium processor. | (05) |
| | d. | Explain, in brief, data format supported by SuperSparc processor. | (08) |
| Q. | 2. a. | Explain memory segmentation with pros and cons. | (12) |
| | b. | Draw and explain the block diagram of 8255. Also, explain different operating | \+~/ |
| | | modes of 8255. | (12) |
| Q. | 3. a. | Design 8086 based minimum mode system for following requirements: | (/ |
| • | | I. 256 KB of RAM using 64 KB x 8-bit device | |
| | | II. 128 KB of RAM using 64 KB x 8-bit device | |
| | • | III. Three 8-bit parallel ports using 8255 | |
| | | IV. Support for 8 interrupts | (08) |
| | р | Explain, in brief, cache organization of Pentium processor | (12) |
| Q. | 4. a | Draw and explain architecture of SuperSparc processor. | (80) |
| | b | Discuss, in brief, protection mechanism of 80386DX. | (10) |
| Q | .5. a | Draw and explain architecture of Pentium processor. | (10) |
| | b | · · · · · · · · · · · · · · · · · · | • • |
| Q | .6. V | Vrite short notes on | (05) |
| | а | | (05) |
| | b | · · · · · · · · · · · · · · · · · · · | (05) |
| | C | | (05) |
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