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| C:\Users\TEMP.WDC.083\Desktop\VIT logo.png  (Autonomous College Affiliated to University of Mumbai) | | | | | ***MSE Paper Audit Form*** | | | | | | | | | |
| Branch: CMPN | | | | | | Semester: 5 | | | | Subject: CN | | | | |
| Syllabus/Unit No. : 1,3 | | | | | | | | | | Marks : 30 | | | | |
| Date of Exam: | | | | Marks Display Date: | | | | TIME: 1 Hr & 15 Mints | | | | | | |
| Que. No | Syllabus | | Question | | | | CO Mapping | Blooms Level | Type | | | | Score  Scale(0-4)for All Question | |
| Unit | Wk. | GQ | | EQ | TP | Self review | Reviewer |
| Q1) a) | 3 |  | Find which bit is to be added for making the following data even parity.  Data:1001100 | | | | CO2 | L3 |  | |  | √ | 4 |  |
| b) | 1 |  | Which device takes data sent from network and forwards to all devices on the network regardless of the intended recipient. | | | | CO1 | L1 |  | |  | √ | 4 |  |
| c) | 1 |  | In a fully connected mesh topology with full duplex links consisting of 50 nodes, the number of links required are | | | | CO1 | L3 |  | | √ |  | 4 |  |
| d) | 3 |  | List different Framing methods | | | | CO2 | L1 |  | | √ |  | 4 |  |
| e) | 3 |  | How many 0’s to be appended in generator polynomial for CRC calculation at sender side if degree of polynomial is 5? | | | | CO2 | L3 |  | | √ |  | 4 |  |
| f) | 1 |  | Give two examples of PAN | | | | CO1 | L1 |  | |  | √ | 4 |  |
| g) | 1 |  | Which is the protocol that maps IP address to its MAC address? | | | | CO1 | L3 |  | |  | √ | 4 |  |
| h) | 1 |  | For intra-process communication which is the special IP needed? | | | | CO1 | L3 | √ | |  |  | 4 |  |
| Q.2 |  |  | **Attempt any one (10 Marks Each)** | | | |  |  |  | |  |  |  |  |
| a. | 3 |  | Consider a message represented by the polynomial M(x) = x5 + x4 + x. Consider a generating polynomial G(x) = x3 + x2 + 1 (1101). Generate a 3 bit CRC and show what will be the transmitted frame. How is error detected by CRC? | | | | CO2 | L3 |  | | √ |  | 4 |  |
| b. | 1 |  | Draw and explain 7 OSI layers in detail | | | | CO1 | L2 |  | | √ |  | 4 |  |
| Q.3 |  |  | **Attempt any one (10 Marks Each)** | | | |  |  |  | |  |  |  |  |
| a. | 3 |  | Explain all ARQ techniques to handle errors | | | | CO1 | L2 |  | | √ |  | 4 |  |
| b. | 3 |  | Show the checksum calculation for 10110011 10110011 | | | | CO2 | L3 | √ | |  |  | 4 |  |

Should Question be modified: YES / NO

If Yes new Question/s

|  |  |  |
| --- | --- | --- |
| No. | Question | Marks |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

Model solution and marking scheme submitted on………………………………………..

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| Name of Teacher : | Subject Teacher | Reviewer | HOD |
| Name & Signature: | Amit K. Nerurkar | Prof. Sachin Deshpande |  |