| s malpractice. | |
|---|--|
| emaining blank pages. sg, $42+8=50$, will be treated | |
| agonal cross lines on the rand /or equations written | |
| ers, compulsorily draw diagoration, appeal to evaluator and | |
| On completing your answe | The state of the s |
| - 1 | 1 |



CBCS SCHEME

15MT743

Seventh Semester B.E. Degree Examination, Aug./Sept.2020 **Real Time Systems**

Max. Marks: 80 Time: 3 hrs.

| Tim | e: 3 | hrs. Max. Mar | rks: 80 |
|-----|----------|--|------------|
| | No | ote: Answer any FIVE full questions, choosing ONE full question from each modu | ule. |
| | | Module-1 | |
| 1 | a. | Define real time system. Classify real time systems based on time constraints | s with an |
| | | example for each and appropriate equations. | (10 Marks) |
| | b. | Explain the types of programs in real-time system design. | (06 Marks) |
| | | OR | |
| 2 | 0 | | (08 Marks |
| 2 | a. b. | Explain distributed system with a neat diagram and mention the major advantag | es of this |
| | U. | approach. | (08 Marks |
| | | арргоден | |
| | | Module-2 | |
| 3 | a. | Willia Heat Schematic diagram, explain general perp | (10 Marks |
| | b. | Write the different types of parallel computers. Explain any one of them. | (06 Marks |
| | | OR | |
| 4 | _ | V-1 | (10 Mark |
| 4 | a. | Willia fieat sketch, explain different Er it topologies | (06 Mark |
| | b. | With a fical block diagram, explain interrupt mass. | |
| | | Module-3 | (40 3 %) |
| 5 | a. | What are the basic ranguage requirements for real time tanguage | (10 Mark |
| | b. | Discuss about modularity and variables used in real-time languages. | (06 Mark |
| | | OR | |
| 6 | a. | | (10 Mark |
| U | b. | Explain run-time support in real-time systems. | (06 Mark |
| | 0. | | |
| | | Module-4 | ıt differe |
| 7 | a. | | (12 Mark |
| | | tasks in task state diagram. | (04 Mark |
| | b. | Write a note on scheduling strategies. | (0.1.2001 |
| | | OR | |
| 8 | a. | Discuss significance of memory management and explain task chaining and | swappi |
| O | | method | (12 Mari |
| | b. | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | (04 Marl |
| | | Module-5 | |
| | | Entries to the area of the state of the stat | (10 Marl |
| 9 | a. | 1' ' details of real time system | (06 Marl |
| | b. | write a note on premimary design details of real time systems | |
| | | OR | |
| 10 | a. | Write a note on: | (0.4.3.4 |
| | | (i) Yourdon methodology | (04 Marl |

(04 Marks) (i) Yourdon methodology (07 Marks) (ii) Drying oven-context diagram

b. Differentiate between Ward and Mellor and the Hatley and Phirbhai methodology. (05 Marks)

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