

M. Tech.-II (Information Technology) (CBCS – 2015 Course) :
SUMMER - 2019

SUBJECT: REAL TIME SYSTEMS

Day: Saturday
Date: 08/06/2019

Time: 11.00 AM TO 02.00 PM
Max Marks. 60

S-2019-3411

N.B.

- 1) All questions are **COMPULSORY**
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Answer to both the sections should be written in **SAME** Answer book.
 - 4) Draw neat and labeled diagram wherever necessary.
 - 5) Use of non-programmable calculator is allowed.
 - 6) Assume suitable data, if necessary.
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SECTION - I

Q.1 Enlist & describe real time applications. **(10)**

OR

Q.1 Describe reference model of real time systems. **(10)**

Q.2 Explain weighted Round Robin approach with an example. **(10)**

OR

Q.2 Describe preemptive Earliest Deadline First (EDF) algorithm with an example. **(10)**

Q.3 Explain Next-Fit algorithm for RM scheduling **(10)**

OR

Q.3 Explain Bin-Packing assignment algorithm for EDF along with an example. **(10)**

SECTION - II

Q.4 Describe Run Time Error handling with an example. **(10)**

OR

Q.4 Describe task scheduling with an example. **(10)**

Q.5 Describe real time Vs general purpose database with respect to consistency, response time & ACID properties. **(10)**

OR

Q.5 Describe database for hard real time systems. **(10)**

Q.6 Write a short note on real time protocols. **(10)**

OR

Q.6 Describe model of Real Time Communication. **(10)**