NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow

M.Tech

FIRST YEAR (SEMESTER-II) THEORY EXAMINATION   (2020-2021)

(Subjective Type)

Subject Code: AMTVL0218   **Max. Mks. : 30**

Subject: Real Time Operating System   **Time   : 50 Minutes**

General Instructions:

All questions are compulsory.

Question No. 1 to 15 are subjective type question carrying 3 marks each. Attempt any 10 out of 15 questions.

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
1	Define Real Time Operating System with its general structure.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Brilliant
2	Differentiate between hard RTOS and soft RTOS.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Brilliant
3	Define response time and execution time.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart
4	What are the problems of semaphore?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart
5	How does DMA increase system concurrency?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Brilliant
6	Define signal mask.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Brilliant
7	What is the purpose of Cross Compiler?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Genius
8	Write some applications of Super loop Design Approach.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Genius
9	What is size of character, integer, integer pointer, character pointer?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Brilliant

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
10	What is uxQueueMessagesWaiting() used for?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Brilliant
11	What are the different typical Message Queue Operations?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart
12	What are various ways to use message queues within an application.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Brilliant
13	What are the difference between task & C procedure.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Brilliant
14	Define context switch time.		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Smart
15	What is a reentrant function?		Attempt any 10 Questions	10 X 3= 30	3		Subjective	Brilliant