PA-10315

[6009]-447

T.E. (E&TC) (Honors) (Insem)
HONORS IN ROBOTICS
Robot Programming & Simulation
(2019 Pattern) (Semester-II) (304183)

Time : 1 Hour]   *[Max. Marks : 30*

Instructions to the candidates:
1) *Answer Q.1 or Q.2, Q.3 or Q.4.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Assume suitable data, if necessary.*
4) *Figures to the right indicate full marks.*

Q1) a) What is the basic difference between operating system and meta operating system? Explain features of ROS. **[7]**

b) Explain ROS framework in detail. **[8]**

OR

Q2) a) What is ROS equation. Describe in brief. **[8]**

b) Describe in brief why ROS is useful and what are its uses. **[7]**

Q3) a) Write a short note on motion interpolation. **[5]**

b) Write short note on various textual robot languages. **[5]**

c) Write short note on loading a machine. **[5]**

OR

Q4) a) Discuss a robot program as a path in space. **[8]**

b) Explain on line programming in detail. **[7]**

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