

GLS Institute of Computer Application
0302603 : Emerging Technologies
Assignment 3

Q-1 Fill in the Blanks:

1. Robotics is a branch of _____.
2. The word robot was firstly introduced to public by _____.
3. _____ Law - A robot is not allowed to injured humanity.
4. In _____ first programmable robot is designed by George Devol.
5. _____
6. The aim of the robot is to manipulate the objects by perceiving, moving, picking, modifying the physical properties of object [T /F].
7. The word "Robotics", was coined accidentally by Issac Asimov[T /F].
8. Issac Asimov proposed his three "Laws of Robotics"[T /F].
9. Second Law is a robot is allowed to protect its own existence as long as such protection would not conflict with a higher order law [T /F].
10. Differnt sensors are the components of Robots [T /F].

Q-2 Write a short note on the following

1. Write a short note on Robotics.
2. Explain the law of Robotics.
3. Explain the history of Robotics.
4. Explain the comonent of Robots.
5. What is Robot Locomotion? Expain in details.
6. Explain the types of Robots in details.
7. Explain the work of Ultra sonic Sensor.
8. Explain the work of Proximity Sensor.
9. Expalin the work of Light Sensor
10. Expain the AVR Robotics Development Board.

All the students have to compulsory attempt Que-1

Attempt Que-2 is distributed to groups in following table.

Roll no	Question 3 allocation
A1 to A10, B1 to B10 & C1 to C10	1,9,7,5
A11 to A20, B11 to B20 & C11 to C20	2,10,8,6
A21 to A30, B21 to B30 & C21 to C30	3,1,9,7
A31 to A40, B31 to B40 & C31 to C40	4,2,10,8
A41 to A50, B41 to B50 & C41 to C50	5,3,1,9
A51 to A60, B51 to B60 & C51 to C60	6,4,2,10
A61 to A70, B61 to B70 & C61 to C70	7,5,3,1
A71 onwards, B71 onwards & C71 onwards	8,6,4,2