Assignment 1

The task for this assignment is to develop the answer to the question.

Assignment 1

1. What is automation? 1 point

2. In 1952, the word "Robot" was first used by: 1 point
   - Ivan Hagery
   - Jules Verne
   - Karl J. Fleischer
   - Peter C. Cumber
   - No. Incorrect

3. What is perception in Robotics? 1 point
   - Acceptor-Receptor
   - Acceptor-Responder
   - Acceptor-Responder
   - Acceptor-Responder
   - No. Incorrect

4. Industry 4.0 or Cyber Physical Systems deals with the connection between: 1 point
   - Computer/Network - Human - AI
   - Wireless connection between devices
   - Robot-based manufacturing
   - Cloud Computing
   - No. Incorrect

5. To solve the last question, a robot should be able to do one or all of the following: 1 point
   - See the object
   - Sense the environment
   - Decide intelligent behaviour
   - Use environmental facts
   - No. Incorrect

6. Name the two joints shown in the picture: 1 point

   - Distance, Concentration
   - Position, Rotation
   - Position, Speed
   - Rotation, Speed
   - No. Incorrect

7. Name the joint that can pick up an object from a table and place it at another position: 1 point
   - SIF
   - DSIF
   - DOLF
   - DOL
   - No. Incorrect

8. The work volume of a parallel (6-DOF) robot made of one equal prismatic joint is: 1 point

9. The work volume of a spatial (6-DOF) robot having 2 prismatic and 1 revolute joint is: 1 point

10. The work area of a 2DOF (45°) planar arm is maximum when the ratio of the two link lengths is: 1 point
   - 1:3
   - 1:2
   - 2:1
   - No. Incorrect

Due on 2021-03-03, 23:59 BST