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Exam

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IMPORTANT

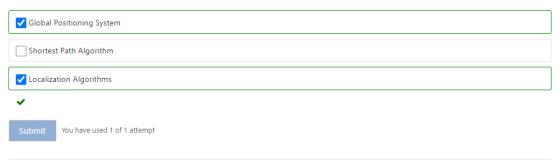
- Each Question carries 1 mark and you will get 1 attempt each. Total 15 Marks
- Checkbox questions do not have partial marking. You need to select all the correct answers to get full marks

Checkboxes

1.0/1.0 point (graded)

Suppose, you are building an autonomous drone which will be used to build a 3D map of a hundred year old building. The drone has no information regarding the floor planning of the building. So, it needs to calculate its currrent position in respect to the environment.

What kind of algorithm and/or technique can be implemented to help the drone to determine it's current position?



Multiple Choice

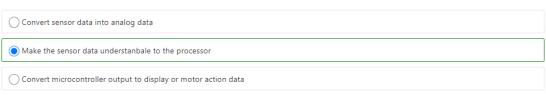
1.0/1.0 point (graded)

Which of the following situations are in conflict with Asimov's First Law of Robotics?

A robot killing a predatory animal to save a human
A robot not alarming the police of a dangerous criminal it detected which lead to a fatality
A robot defying the order to kill terrorrist
•
Submit You have used 1 of 1 attempt
Multiple Choice

1.0/1.0 point (graded)

What is the job of a calibration circuit?





You have used 1 of 1 attempt



Multiple Choice

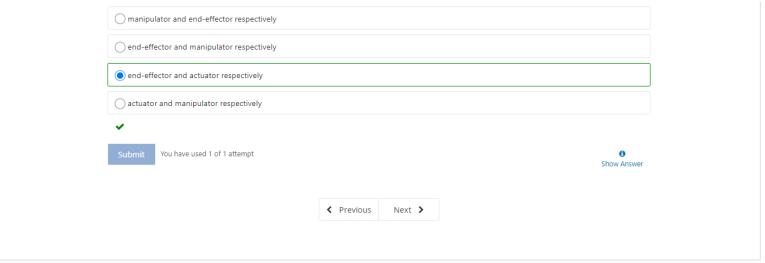
1.0/1.0 point (graded)

Which of the following can help in controlling the torque of a DC motor?

O Power source	
Armature	
● Gearbox	
Stator Teeth	
Actuator	
✓	
Submit You have used 1 of 1 attempt Show An	swer
Checkboxes	
1.0/1.0 point (graded)	
Which of the following is a parallel robot?	
Predator Drone	
✓ Flight Simulator	
✓ Milling Machine	
UBER autonomous taxi	
Submit You have used 1 of 1 attempt Multiple Choice	
Suppose you are creating an IoT network for an enterprise which has factories at different location. The IoT devices of each of the factories must be able to communicate with each other so that they can control the rate of production. Since there are no dedicated line between the factories, communication must take place over the internet. Which of the following technologies will allow you enable secure communications for the devices?	
Credential based authentication system	
RSA based encryption algorithm	
Blockchain based authentication	
All of the above	
None of the above	
▼	
Submit You have used 1 of 1 attempt Show An	swer
Multiple Choice	
1.0/1.0 point (graded)	
Curiosity and Opportunity rovers are	

And point (graded) And point (graded) And point (graded) And (brown of the following is a passive sensor? And (brown of the following is a pas	Rescue Robot	
Autiple Choice All Topoint graded) Autiple Choice Autiple C	○ None of above	
Autiple Choice All Topoint graded) Autiple Choice Autiple C	✓	
Aultiple Choice And National Subsystem Recognition subsystem Recog	Submit You have used 1 of 1 attempt	Show Answer
Microphone Sonar UDAR Compass UDAR V	Checkboxes	
Microphone Sonar LDAR LOAR Vou have used 1 of 1 attempt	.0/1.0 point (graded)	
Sonar Compass LUDAR Voluntal You have used 1 of 1 attempt Multiple Choice Q/10 point (graded) MyO' device can be part of which subsystem— Control subsystem Motion subsystem Now have used 1 of 1 attempt Multiple Choice Q/10 point (graded) for creating a drone tasked with counting the number of trucks in a road alongside reading and ending their license plates to central server, which of the following is/are more suitable? Notion subsystem Voluntiple Choice Q/10 point (graded) Programmable logic array Raspherry Pi Arduino Nano Voluntary Pi	Which of the following is a passive sensor?	
Compass UDDAR UNDAR Vou have used 1 of 1 attempt Vou have used 1 of 1 attempt Octobrough Octob	✓ Microphone	
ULIDAR	Sonar	
Submit Vou have used 1 of 1 attempt Aultiple Choice On 10 point (graded) MYO' device can be part of which subsystem- Control subsystem Motion subsystem Recognition subsystem Vultiple Choice On 10 point (graded) For creating a drone tasked with counting the number of trucks in a road alongside reading and ending their license plates to central server, which of the following is/are more suitable? Nividia Jetson Nano Armega328p Programmable logic array Respherry Pi Arduino Nano Vultiple Choice On 10 point (graded) Vou have used 1 of 1 attempt Submit Vou have used 1 of 1 attempt Auttiple Choice On 10 point (graded) Which part of the Robot provides motion to the manipulator and end-effectors?	✓ Compass	
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□ ATmega328p □ Programmable logic array ✓ Raspberry Pi □ Arduino Nano ✓ Submit You have used 1 of 1 attempt Multiple Choice 0/1.0 point (graded) Which part of the Robot provides motion to the manipulator and end-effectors?		
Programmable logic array ✓ Raspberry Pi Arduino Nano ✓ Submit You have used 1 of 1 attempt Multiple Choice 0/1.0 point (graded) Which part of the Robot provides motion to the manipulator and end-effectors?	✓ Nvidia Jetson Nano	
✓ Raspberry Pi Arduino Nano ✓ Submit You have used 1 of 1 attempt Multiple Choice 0/1.0 point (graded) Which part of the Robot provides motion to the manipulator and end-effectors?	ATmega328p	
Arduino Nano Submit You have used 1 of 1 attempt Multiple Choice 0/1.0 point (graded) Which part of the Robot provides motion to the manipulator and end-effectors?	Programmable logic array	
Submit You have used 1 of 1 attempt Multiple Choice 0/1.0 point (graded) Which part of the Robot provides motion to the manipulator and end-effectors?	✓ Raspberry Pi	
Multiple Choice 0/1.0 point (graded) Which part of the Robot provides motion to the manipulator and end-effectors?	Arduino Nano	
Multiple Choice 0/1.0 point (graded) Which part of the Robot provides motion to the manipulator and end-effectors?	•	
0/1.0 point (graded) Which part of the Robot provides motion to the manipulator and end-effectors?	Submit You have used 1 of 1 attempt	Show Answe
Which part of the Robot provides motion to the manipulator and end-effectors?	Multiple Choice 1.0/1.0 point (graded)	
Sensor		

Actuator	
Motor	
~	
Submit You have used 1 of 1 attempt	Show Answer
Multiple Choice	
1.0/1.0 point (graded)	
Robot is a Digital System because	
It is a highly advanced device	
lt handles dirty, dull, dangerous, or difficult task	
Digital electronics and control system is an important part of it	
None of above is true	
*	
Submit You have used 1 of 1 attempt	Show Answer
Multiple Choice	
1.0/1.0 point (graded)	
What is the kinematic part of a robot or manipulator called?	
Sensors	
Joints	
Links	
○ End-Effectors	
•	
Submit You have used 1 of 1 attempt	Show Answer
Multiple Choice	
1.0/1.0 point (graded)	
Which of the following are proximity sensors?	
O Inductive type	
Capacitative type	
○ Ultrasonic Type	
All of the above	
None of the above	
✓	
Submit You have used 1 of 1 attempt	6 Show Answer
Multiple Choice	
In an excavator, we can call the excavator claw and the mechanism that is	helping moving the sem
n an excavator, we can call the excavator claw and the mechanism that is	neiping moving the arm -
actuator and end-effector respectively	



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