Wheeled Mobile Robots

Assignment 8

1.	device and the robot moves immediately.
	(autonomous control
	tele-operation or tele-operator control
	semi-autonomous control
	manual control
	preprogrammed control
	intelligent control
	Correct answer is tele-operation or tele-operator control
2.	Kinematic control is not sufficient for the legged robots and need scheme.
	(a model-free control
	a robust hybrid force-motion control
	a model based motion control
	a feed-forward motion control
	a resolved motion control
	○ a force control
	Correct answer is a robust hybrid force-motion control
3.	The robots in which the wheels mounted at the end of the legs is called as These wheels can be active or passive to provide more options for terrain-specific mobility.
	○ legged robots
	(articulated-wheeled robots
	wheeled mobile robots
	articulated legs
	() manipulators
	o powered exoskeletons
	Correct answer is articulated-wheeled robots
4.	For the static equilibrium, the reaction forces at should be reduced to only one vertical reaction just as same as the weight of the robot.
	\bigcirc the of the leg
	the centre of mass
	○ the centre of pressure
	the hip point
	the ankle point
	○ the knee point
	Correct answer is the centre of pressure
5.	During walking, the contact between the ground and the robot is via the feet. But the ground reaction force
	○ can pull the foot not hold it.
	○ can pull the foot and hold it.
	○ can push the foot not hold it.

 ○ neither push or pull the foot. ○ simply hold the foot. Correct answer is can push the foot not hold it. 6 is capable of navigating an uncontrolled electro-mechanical guidance devices. ○ A guided vehicle ○ A remote-controlled robot ○ A manual cart system ○ A wheeled mobile robot ○ A humanoid robot ○ Autonomous mobile robot Correct answer is Autonomous mobile robot 7. AGV full form is ○ Autonomous Green Vehicle ○ Autonomous Graded Vehicle ○ Autonomous Graded Vehicle ○ A Green-energy Vehicle 	onningnoont without the weed for elect.
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Autonomous Green VehicleAutomated General VehicleAutonomous Graded Vehicle	
Automated General VehicleAutonomous Graded Vehicle	
Automated General VehicleAutonomous Graded Vehicle	
Autonomous Graded Vehicle	
Autonomous Genesis Vehicle	
Automated Guided Vehicle	
Correct answer is Automated Guided Vehicle	
8. A is a robot that is intended to operate v of a fixed-base manipulator.	with dexterity in a workspace larger than that
mobile robot	
wheeled mobile robot	
O legged robot	
o aerial robot	
O vehicle-manipulator system	
underwater robotCorrect answer is vehicle-manipulator system	
9 allow robots to have periods of operation	and independence subsequent to condinction
their selection of tasks or roles.	ar independence, subsequent to coordinating
 Strongly cooperative solutions 	
 Simple swarm solutions 	
 Weakly cooperative solutions 	
 Networked independent solutions 	
 Centralized control solutions 	
 No cooperative solutions 	
Correct answer is Weakly cooperative solutions	
10. Fixed wing aerial vehicles require runway, they may st	all and need aerodynamic designs.
O True	
○ False	
Correct answer is True	
11. In the approach, each robot oversees the robots, each of which in turn oversees yet another group robot, which simply executes its part of the task.	

	O decentranzed arcintecture
	centralized architecture
	○ hierarchical architecture
	O hybrid architecture
	onetwork architecture
	open architecture
	Correct answer is hierarchical architecture
12.	Rehabilitation robotics has been defined a special branch of robotics which focuses on machines that can be used to help people recover from severe physical trauma or assist them in activities of daily living.
	○ True
	○ False
	Correct answer is True