



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – Dip.RA-2022

Course Name – Robotic Fundamentals

Course Code - ECPC402

(Semester IV)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Name, A place where power, information, or a result leaves a system
- a) chassis
 - b) output
 - c) sensor
 - d) troubleshooting
- (ii) Select, the position or alignment relative to points of the compass or other specific directions.
- a) Loops
 - b) Sensor
 - c) Chassis
 - d) Orientation
- (iii) The branch of technology that deals with dimensions of microscopic proportion, is describe as?
- a) Nannytechnology
 - b) Nanotechnology
 - c) Microtechnology
 - d) Micromachinery
- (iv) State, the Hummingbird _____ require extra power to be able to work.
- a) Sensors
 - b) LEDs
 - c) Motors
 - d) Tri-Color LEDs
- (v) When working in a group for robotics, students report _____ -
- a) stay on task but don't work with other group members
 - b) Socialize with group members outside of your group and then work alone
 - c) Socialize with other group members and don't help your group
 - d) stay on task and work with other group members appropriately
- (vi) Report, The 3rd law of robotics Spirit Isaac Asimov first announced the 3 laws of robotics in 1942.
- a) A robot may not injure a human being or, through inaction, allow a human being to come to harm
 - b) A robot can't go to school
 - c) A robot must obey orders given it by human beings except where such orders
 - d) A robot must protect its own existence as long as such protection does not conflict

OR

What is a stepper motor? Explain the different types of stepper motor?

(5)
