



UNNAMALAI INSTITUTE OF TECHNOLOGY

Suba Nagar, Kovilpatti – 628502

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Academic Year 2018-2019

Department of Mechanical Engineering

VMECH1801 Design process of Industrial Robotics

Assessment Questions and Answers

Name :

Register No :

Year/Department :

No of Question: 20	Mark: 20	Duration: 30mins
--------------------	----------	------------------

1. An automatic apparatus or device that performs functions ordinarily ascribed to humans or operate with what appears to be almost human intelligence is called _____

- a) Robot
- b) Human
- c) Animals
- d) Reptiles

2. The laws of Robotics are:

- a) A robot may not injure a human being
- b) A robot must obey the order given by human except when conflict with the first law
- c) A robot must protect its own existence except when it is violating first and second law
- d) Both b and c

3. The basic components of robot are:

- a) The mechanical linkage
- b) Sensors and controllers
- c) User interface and power conversion unit
- d) All of the mentioned

4. A _____ is connection between parts or links in a robot that allow motion.

- a) Hinge
- b) Joint
- c) Dis joint
- d) None of the mentioned

5. Classification of Robot is based on:

- a) Geometry and geometric classification
- b) Left right classification

Dr. D. RAVINDRAN, M.E., Ph.D.,
Principal
Unnamalai Institute of Technology
Suba Nagar, KOVILPATTI - 628 502.
Thoothukudi District




UNNAMALAI INSTITUTE OF TECHNOLOGY

Suba Nagar, Kovilpatti – 628502

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

- c) Based on control system
d) All of the mentioned
6. What is an electric drive?
a) A machine that converts electrical energy into kinetic energy
b) A machine that converts mechanical energy into electrical energy
c) A machine that converts electrical energy into mechanical energy
d) A machine that converts kinetic energy into electrical energy
7. Which of the following is used to build a electric drive?
a) Source
b) Motor
c) Control unit
d) All of the mentioned
8. Which of the following is/are components of an electric drive?
a) Control unit and Power Modulator
b) Electric Motor and Control System
c) Input Command
d) Sensing Device and Electric Motor
9. Which of the following is a function of electric drive?
a) Transport energy from the storage system to the wheels
b) Transport energy from the control system to the wheels
c) Transport fuel from the electric motor to the wheels
d) Transport fuel from the storage system to the wheels
10. What are electric drives?
a) Engines of 2-wheelers
b) Laptops
c) Robotics
d) Both a & c
11. In a rule-based system, procedural domain knowledge is in the form of _____
a) A rule interpreters
b) B meta-rules
c) control rules
d) production rules


Dr. D. RAVINDRAN, M.E., Ph.D.,
Principal
Unnamalai Institute of Technology
Suba Nagar, KOVILPATTI - 628 502.
Thoothukudi District

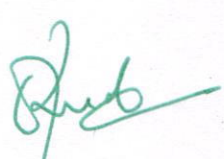


UNNAMALAI INSTITUTE OF TECHNOLOGY

Suba Nagar, Kovilpatti – 628502

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

12. If a robot can alter its own trajectory in response to external conditions, it is considered to be _____
- a) A open loop
 - b) B mobile
 - c) **intelligent**
 - d) D non-servo
13. One of the leading American robotics centers is the Robotics Institute located at?
- a) ACMU
 - b) B MIT
 - c) C RAND
 - d) D SRI
14. _____ is correct for proximity sensors?
- a) Inductive type
 - b) Capacitive type
 - c) Ultrasonic wave type
 - d) **All of the mentioned**
15. In ANN, all PE's are connected with feedback.
- a) True
 - b) **False**
16. Static analysis is not useful & cost effective way of testing. True or False
- a) True
 - b) **False**
17. The defects found in static testing and dynamic testing are same. True or false
- a) True
 - b) **False**
18. Who generally uses static analysis tools?
- a) Tester
 - b) **Developer**
 - c) customer
 - d) All of the above
19. What is true regarding static analysis tools?
- a) It compares actual and expected result
 - b) It can detect memory leaks


Dr. D. RAVINDRAN, M.E., Ph.D.,
Principal
Unnamalai Institute of Technology
Suba Nagar, KOVILPATTI - 628 502.
Thoothukudi District