

Part -I-CHOOSE THE CORRECT ANSWER

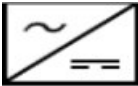
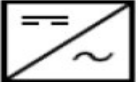
1. If there are 3 identical resistors connected parallel the total resistance will be.
A) 3 time each individual resistors B) 2/3 times each individual resistor
C) 1/3 times each individual resistors D) 4/3 times each individual resistors
2. The responsible person to maintain the quality of work performed by a work team.
A, supervisor B, all members of the team C, worker D, quality assurance officer
3. Resistivity of a conductor is mostly affected by.
A, composition B, pressure C, Temperature D, current
4. Written communication methods may include.
A) Discussion B)Negotiation C)Speeches D)Instructions
5. What should you do when a problem arises while you are repairing electronic equipment that you Cannot solve by yourself?
A, quit repairing B, throw it away C, ask for assistance D, murmuring & crying
6. What is the power factor in capacitive
A, zero B, unity C, lagging D, leading
7. The starting winding of a single phase motor is placed in the----
A. rotor B. stator C. armature D, field
8. The frequency of DC supply is
A, zero B, 16HZ C, 50 HZ D, 100HZ
9. The demand factor for the electrical system is the ratio of
A) Maximum demand to connected load B) Maximum demand to average load
C) Average power to maximum power D) Relative power to total power
10. Dielectric materials are
A) Insulating materials B) Semiconducting materials
C) Magnetic materials D) Ferroelectric materials
11. Transformer cores are laminated in order to:
A) Simplify its construction B) Minimize eddy current loss
C) Reduce loss D) Reduce hysteresis's loss
12. Star – delta starter of an induction motor
A) Inserts resistance in rotor circuit B) Inserts resistance in stator circuit
C) Applies reduced voltage to rotor D) Applies reduced voltage to stator
13. Brushes of D.C. machines are usually made of
A) Hard copper B)Soft copper C)Carbon D)All of above
14. The minimum change in input value that can be detected by measuring called
A) Threshold B)Resolution C)Sensitivity D)Error
15. Multiplying resistor is required in
A) Ammeter B)Power C)Ohmmeter D)Voltmeter
16. One of the following devices can be used to isolate the control circuit from the load.
A) Toggle switch B)Relay C)Circuit breaker D)Rotary switch
17. The aim of preventive maintenance is to
A) Increase the reliability of a tool or equipment. B) Increase the failure rate of tool or equipment.
C) Reduce the life span of a tool or equipment. D) Improve the standard quality of a tool or equipment.
18. A transformer having 1000 primary turns is connected to a 250V AC supply for a secondary voltage 400 V. The number of secondary turns should be
A) 1600 B)250 C)400 D)125
19. An electronic component which is used as switching device
A) Capacitor B)Zener diode C)Resistor D)Transistor
20. Basic meter movement has an internal resistance of 50hom and full scale deflection current 150MA. What will be the value of the shunt resistor required to measure?
A) 20Ω B)35 Ω C)15 Ω D)50 Ω
21. The difference between the synchronous speed and the actual speed of an induction motor is known as
A) Regulation B)Back lash C)Slip D)Lag

Mechatronics Level-IV COC
Part II. Matching A and B

Column A

- ___ 1. DC Motor With constant Speed
- ___ 2. Motor with High starting Torque
- ___ 3. Current limiting Device
- ___ 4. Used To Store Program & Data in Computer System
- ___ 5. Proper Attitude toward Work
- ___ 6. Performance of Operation or Quality of Product or Service to ensure customer satisfaction is monitored.
- ___ 7. Constrictive & Encouraging Idea for Improvement
- ___ 8. Voltage Transformer
- ___ 9. Current Transformer
- ___ 10. Washing Machine
- ___ 11. The Unit of Inductance
- ___ 12. Rectifier
- ___ 13. Inverter
- ___ 14. Team Member Understand How Their Tasks Fit In With Other People's tasks.
- ___ 15. Each Members Co-operating with Everyone and assisting others when they need help.

Column B

- A. Henry
- B. Spindle Motor
- C. Varistor
- D. Memory
- E. Effective Communication
- F. Initiative
- G. Dc Series Motor
- H. Shunt Motor
- I. Feed Bake
- J. Hard Disk Driver
- K. Quality Control
- L. Successful Team work
- M. 
- N. 
- O. 
- P. 
- Q. 
- R. 

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Answers key

Part -I-CHOOSE THE CORRECT ANSWER

1. C
2. B
3. C
4. D
5. C
6. B
7. B
8. A
9. A
10. A
11. B
12. D
13. C
14. B
15. D
16. B
17. A
18. A
19. D
20. C
21. C

Part -II-Matching A and B

1. H
2. G
3. C
4. J
5. F
6. K
7. I
8. R
9. Q
10. M
11. A
12. O
13. P
14. E
15. L