

# ITI Quiz - 27-Mar-2026

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Q. ID: ITISKILL6952CP

March 2026

Question Paper

Duration: 30 Mins

Total Marks: 30

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Student Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

1. What is the working principle of alternator?

- A) Law of resistance                      B) Ohms law  
C) Lenz's law                                D) Electromagnetic induction

2. What causes no charge when engine is running?

- A) Brushes not seating properly                      B) Sticky regulator  
C) Drive belt loose                         D) Shorted rectifier

3. How the armature winding ends are connected with commutator?

- A) By welding                                B) By soldering  
C) By brazing                                 D) By riveting

4. What is the cause of low voltage output from alternator?

- A) Loose mountings                        B) Faulty regulator  
C) Wornout bearing                         D) Loose drive pulley

5. What will be the result of worn teeth of ring gear in the starting system?

- A) Starter motor running too slow                      B) Motor not running no operating sound of magnetic switch  
C) Starter motor running but not cranking                      D) Motor running but too fast

6. Which type of winding is connected to the starter switch in the solenoid switch?

- A) Pull in winding                         B) Primary winding  
C) Hold in winding                         D) Compound winding

7. What is the function of rotor assembly?

- A) Supports rectifier mounting plates                      B) Carriers driving pulley and cooling fan  
C) Allow the current flow in one direction                      D) Supports pre lubricated scaled bearing

8. How the alternator field terminal is connected to the battery?

- A) By indicator lamp                        B) By ignition switch  
C) By voltage regulator                      D) By charge indicator

9. What is the adverse effect of fly wheel ring to starter pinion ratio is very high?

- A) Damage to starter motor                      B) Starter motor fails to start  
C) Reduce the starting torque                      D) Increase the starting torque

10. Which type of DC starter motor generally used in automoniles?

- A) Parallel type                                B) Series type  
C) Compound type                                D) Shunt type

11. What is the function of over running clutch in the starting system?

- A) Prevent sliding movement of pinion                      B) Operate the solenoid  
C) Drive the armature shaft                      D) Protect armature from damage

12. What is the function of diodes?

- A) Convert DC to AC                         B) Step down voltage  
C) Step up voltage                                D) Convert AC to DC

13. What will be the result of loose drive pulley in the alternator?

- A) No change when engine running                      B) Charges at high rate  
C) Low voltage output from alternator                      D) Alternator noisy

14. Where the starter motor located?

- A) Rear side of engine                        B) Bottom of engine  
C) Front side of engine                        D) Top side of engine

15. Which part of bendix drive starting system limit the turning of the sleeve on the armature shaft?

- A) Bendix drive spring                        B) Pinion  
C) Anti drift spring                                D) Fly wheel

16. Why it is necessary to disengage the starter pinion from fly wheel ring gear once the engine has started?

- A) Reduce the wear on commutator
- B) Prevent damage to starter motor
- C) Increase the fuel efficiency
- D) Prevent wastage of current

17. What is the possible cause of motor not running and no operating sound of magnetic switch?

- A) Worn pinion tip
- B) Worn brushes
- C) Burnt commutator
- D) Battery discharged

18. What causes charges at high rate in the alternator?

- A) Open rectifier circuit
- B) Open field current
- C) Voltage regulator setting too high
- D) Voltage regulator setting too low

19. What is the contributory cause of starter motor running but not cranking?

- A) Abnormally worn brush
- B) Faulty ECM circuit
- C) Poor contacting action of ignition
- D) Over running clutch slipping

20. What is the purpose of alternator?

- A) Produce more electricity at high RPM
- B) Produce variable electric supply at high RPM
- C) Produce more electricity at low RPM
- D) Produce constant electric supply at high RPM

21. What is the material used to make diodes?

- A) Silicon
- B) Mica
- C) Alumina foil
- D) Graphite

22. Why the brushes are provided with a curvature at the bottom in the starting system?

- A) Ensure proper heat dissipation
- B) Provide ventilation to commutator
- C) Provide more contact with commutator
- D) Prevent wear on commutator

23. Which device used to prevent damage to the battery and other electrical accessories?

- A) Alternator
- B) Current regulator
- C) Distributor assembly
- D) Voltage regulator

24. What is the minimum RPM of crank shaft required to start the engine?

- A) 180 RPM
- B) 150 RPM
- C) 200 RPM
- D) 100 RPM

25. What is the purpose of V pulley in the charging system?

- A) Rotate the alternator rotor
- B) Drive the cam shaft
- C) Drive the crank shaft
- D) Support rectifier mounting plates

26. Why anti drift spring is provided in the bendix drive starting system?

- A) Prevent pinion striking fly wheel
- B) Resist wear on the fly wheel
- C) Avoid the side way movement of armature shaft
- D) Provide grip over armature shaft

27. What is the purpose of slot provided in the laminated cylindrical iron core of stator assembly?

- A) For easy fitting
- B) Provide space for cooling
- C) For lubrication
- D) For fitting insulated windings

28. What is the function of drive end frame in the alternator?

- A) Allow current flow in one direction
- B) Connecting to spring loaded brush
- C) Support the pre lubricated sealed bearing
- D) Carriers driving pulley

29. What is the function of solenoid switch?

- A) Stepdown voltage from primary to secondary winding
- B) Shift the lever to engage the plunger
- C) Open and close the circuit between primary and secondary
- D) Close the contact between battery and starting motor

30. What is the advantage of series winding type starter motor?

- A) Increase the life of armature
- B) Produce constant starting torque
- C) Less cost of maintenance
- D) Produce high starting torque