

# ITI Quiz - 31-Mar-2026

## 06:31 PM

Q. ID: ITISKILL2764YT

March 2026

Question Paper

Duration: 30 Mins

Total Marks: 30

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

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

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

2. What is the purpose of alternator?

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

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

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

4. What is the function of solenoid switch?

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

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

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

6. Where the starter motor located?

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

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

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

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

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

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

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

10. What is the working principle of alternator?

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

11. Which type of DC starter motor generally used in automobiles?

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

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

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

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

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

14. What causes no charge when engine is running?

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

15. 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

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

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

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

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

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

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

19. What is the function of rotor assembly?

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

20. What is the material used to make diodes?

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

21. What is the function of diodes?

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

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

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

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

- A) Open field current  
B) Open rectifier circuit

- C) Voltage regulator setting too high  
D) Voltage regulator setting too low

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

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

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

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

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

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

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

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

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

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

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

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

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

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