

ITI Quiz - 31-Mar-2026

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Q. ID: ITISKILL2764YT

March 2026

Answer Key

Duration: 30 Mins

Total Marks: 30

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

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

Answer: C) Alternator noisy

2. 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

Answer: D) For fitting insulated windings

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

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

Answer: D) Rotate the alternator rotor

4. What is the working principle of alternator?

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

Answer: A) Electromagnetic induction

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

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

Answer: C) Prevent pinion striking fly wheel

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

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

Answer: C) Battery discharged

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

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

Answer: A) Series type

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

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

Answer: D) Bendix drive spring

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

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

Answer: C) By soldering

10. What is the material used to make diodes?

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

Answer: D) Silicon

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

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

Answer: D) Provide more contact with commutator

12. What is the function of solenoid switch?

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

Answer: B) Close the contact between battery and starting motor

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

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

Answer: A) Protect armature from damage

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

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

Answer: A) By ignition switch

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

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

Answer: D) Voltage regulator

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

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

Answer: A) Starter motor running but not cranking

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

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

Answer: A) Damage to starter motor

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

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

Answer: C) Produce high starting torque

19. What is the function of rotor assembly?

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

Answer: D) Carriers driving pulley and cooling fan

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

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

Answer: A) Support the pre lubricated sealed bearing

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

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

Answer: C) Voltage regulator setting too high

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

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

Answer: A) 100 RPM

23. What is the purpose of alternator?

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

Answer: D) Produce more electricity at low RPM

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

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

Answer: C) Prevent damage to starter motor

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

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

Answer: C) Over running clutch slipping

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

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

Answer: B) Pull in winding

27. Where the starter motor located?

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

Answer: C) Rear side of engine

28. What causes no charge when engine is running?

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

Answer: A) Drive belt loose

29. What is the function of diodes?

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

Answer: D) Convert AC to DC

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

A) Loose mountings

B) Wornout bearing

C) Loose drive pully

D) Faulty regulator

Answer: D) Faulty regulator
