

ITI Quiz - 27-Mar-2026

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Q. ID: ITISKILL4316NW

March 2026

Answer Key

Duration: 30 Mins

Total Marks: 30

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

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

Answer: D) Prevent pinion striking fly wheel

2. 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

Answer: D) 100 RPM

3. What causes no charge when engine is running?

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

Answer: D) Drive belt loose

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

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

Answer: D) Series type

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

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

Answer: C) Produce high starting torque

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

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

Answer: D) Rotate the alternator rotor

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

- A) Support the pre lubricated sealed bearing
- B) Connecting to spring loaded brush

- C) Carriers driving pulley
- D) Allow current flow in one direction

Answer: A) Support the pre lubricated sealed bearing

8. What is the function of diodes?

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

Answer: A) Convert AC to DC

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

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

Answer: B) Faulty regulator

10. What is the working principle of alternator?

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

Answer: B) Electromagnetic induction

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

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

Answer: D) Over running clutch slipping

12. What is the function of rotor assembly?

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

Answer: A) Carriers driving pulley and cooling fan

13. What is the function of solenoid switch?

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

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

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

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

Answer: A) Voltage regulator setting too high

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

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

Answer: D) Bendix drive spring

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

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

Answer: B) Voltage regulator

17. What is the material used to make diodes?

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

Answer: A) Silicon

18. What is the purpose of alternator?

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

Answer: C) Produce more electricity at low RPM

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

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

Answer: B) Starter motor running but not cranking

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

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

Answer: C) Protect armature from damage

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

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

Answer: B) By soldering

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

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

Answer: A) Alternator noisy

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

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

Answer: C) Pull in winding

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

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

Answer: C) Provide more contact with commutator

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

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

Answer: B) Prevent damage to starter motor

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

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

Answer: B) Battery discharged

27. 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

Answer: C) Damage to starter motor

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

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

Answer: D) For fitting insulated windings

29. Where the starter motor located?

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

Answer: A) Rear side of engine

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

A) By voltage regulator

B) By ignition switch

C) By charge indicator

D) By indicator lamp

Answer: B) By ignition switch
