

ITI Quiz - 27-Mar-2026

04:18 PM

Q. ID: ITISKILL4316NW

March 2026

Question Paper

Duration: 30 Mins

Total Marks: 30

ID: ITISKILL4316NW

Student Name: _____ Roll No: _____

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

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

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

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

3. Where the starter motor located?

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

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

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

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

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

6. What is the working principle of alternator?

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

7. 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

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

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

9. What causes no charge when engine is running?

A) Sticky regulator

B) Brushes not seating properly

C) Shorted rectifier

D) Drive belt loose

10. What is the material used to make diodes?

A) Mica

B) Silicon

C) Alumina foil

D) Graphite

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

A) Increase the starting torque

B) Reduce the starting torque

C) Damage to starter motor

D) Starter motor fails to start

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

A) For fitting insulated windings

B) For easy fitting

C) For lubrication

D) Provide space for cooling

13. 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) Stepdown voltage from primary to secondary winding

D) Shift the lever to engage the plunger

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

A) Parallel type

B) Compound type

C) Series type

D) Shunt type

15. 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 magentic switch

D) Motor running but too fast

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

- A) Battery discharged
C) Burnt commutator

- B) Worn pinion tip
D) Worn brushes

- C) Open field current

- D) Voltage regulator setting too low

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

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

18. What is the function of rotor assembly?

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

19. 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
C) Prevent wastage of current
- B) Increase the fuel efficiency
D) Reduce the wear on commutator

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

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

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

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

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

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

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

- A) Open rectifier circuit
- B) Voltage regulator setting too high

24. What is the function of diodes?

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

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

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

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

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

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

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

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

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

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

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

30. What is the purpose of alternator?

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