

February 2026

Answer Key

Duration: 30 Mins

Total Marks: 30

Q.ID: ITISKILL5369NZ

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

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

Answer: D) Support the pre lubricated sealed bearing

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

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

Answer: B) Faulty regulator

3. What causes no charge when engine is running?

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

Answer: A) Drive belt loose

4. Where the starter motor located?

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

Answer: B) Rear side of engine

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

Answer: A) Prevent damage to starter motor

6. 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

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

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

Answer: C) Battery discharged

8. Why the brushes are provided with a curvature at the

bottom in the starting system?

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

Answer: B) Provide more contact with commutator

9. What is the function of diodes?

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

Answer: B) Convert AC to DC

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

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

Answer: A) Protect armature from damage

11. 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

Answer: D) 100 RPM

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

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

Answer: C) By ignition switch

13. What is the material used to make diodes?

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

Answer: C) Silicon

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

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

Answer: A) Voltage regulator

15. 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) Pinion D) Anti drift spring

Answer: B) Bendix drive spring

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

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

Answer: B) Rotate the alternator rotor

17. 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

Answer: B) Alternator noisy

18. 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) Prevent pinion striking fly wheel D) Avoid the side way movement of armature shaft

Answer: C) Prevent pinion striking fly wheel

19. What is the working principle of alternator?

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

Answer: B) Electromagnetic induction

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

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

Answer: B) Produce high starting torque

21. What is the function of solenoid switch?

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

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

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

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

Answer: D) By soldering

23. What is the purpose of alternator?

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

Answer: A) Produce more electricity at low RPM

24. 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 too slow
C) Starter motor running but not cranking D) Motor not running no operating sound of magentic switch

Answer: C) Starter motor running but not cranking

25. 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

26. 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

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

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

Answer: A) Voltage regulator setting too high

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

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

Answer: B) For fitting insulated windings

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

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

Answer: C) Over running clutch slipping

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

A) Starter motor fails to start B) Increase the starting torque

C) Reduce the starting torque

D) Damage to starter motor

Answer: D) Damage to starter motor
