

February 2026

Answer Key

Duration: 30 Mins**Total Marks: 30****Q.ID: ITISKILL3523NI****1.** 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**2.** What is the working principle of alternator?

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

Answer: D) Electromagnetic induction**3.** What is the material used to make diodes?

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

Answer: D) Silicon**4.** 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) Stepdown voltage from primary to secondary winding D) Open and close the circuit between primary and secondary

Answer: A) Close the contact between battery and starting motor**5.** 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) Allow current flow in one direction D) Carriers driving pulley

Answer: B) Support the pre lubricated sealed bearing**6.** What is the purpose of V pulley in the charging system?

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

Answer: C) Rotate the alternator rotor**7.** Why the brushes are provided with a curvature at the bottom in the starting system?

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

Answer: A) Provide more contact with commutator**8.** What is the contributory cause of starter motor running but not cranking?

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

Answer: D) Over running clutch slipping**9.** What is the cause of low voltage output from alternator?

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

Answer: A) Faulty regulator**10.** What is the function of over running clutch in the starting system?

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

Answer: A) Protect armature from damage**11.** What will be the result of worn teeth of ring gear in the starting system?

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

Answer: B) Starter motor running but not cranking**12.** Which type of DC starter motor generally used in automobiles?

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

Answer: D) Series type**13.** 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) Increase the fuel efficiency
C) Prevent wastage of current D) Reduce the wear on commutator

Answer: A) Prevent damage to starter motor**14.** What is the minimum RPM of crank shaft required to start the engine?

- A) 180 RPM
- C) 200 RPM

- B) 150 RPM
- D) 100 RPM

Answer: D) 100 RPM

15. What is the function of rotor assembly?

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

Answer: B) Carriers driving pulley and cooling fan

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

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

Answer: C) Voltage regulator

17. What is the purpose of alternator?

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

Answer: B) Produce more electricity at low RPM

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

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

Answer: A) Voltage regulator setting too high

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

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

Answer: C) Produce high starting torque

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

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

Answer: D) Pull in winding

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

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

Answer: C) By ignition switch

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

- A) By welding
- C) By brazing

- B) By soldering
- D) By riveting

Answer: B) By soldering

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

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

Answer: C) Bendix drive spring

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

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

Answer: B) Prevent pinion striking fly wheel

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

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

Answer: C) Alternator noisy

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

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

Answer: D) Damage to starter motor

27. Where the starter motor located?

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

Answer: D) Rear side of engine

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

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

Answer: B) For fitting insulated windings

29. What causes no charge when engine is running?

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

Answer: D) Drive belt loose

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

- A) Worn pinion tip
- C) Battery discharged

- B) Burnt commutator
- D) Worn brushes

Answer: C) Battery discharged
