

February 2026

Answer Key

Duration: 30 Mins**Total Marks: 30****Q.ID: ITISKILL3523NI**

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

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

Answer: B) Provide more contact with commutator

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

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

Answer: D) Over running clutch slipping

3. 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 lubricantion | D) Provide space for cooling |

Answer: A) For fitting insulated windings

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

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

Answer: D) By soldering

5. 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

6. 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

7. 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

8. What is the purpose of alternator?

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

Answer: D) Produce more electricity at low RPM

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

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

Answer: D) Produce high starting torque

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

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

Answer: B) Prevent damage to starter motor

11. What is the function of solenoid switch?

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

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

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

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

Answer: C) Voltage regulator setting too high

13. What is the material used to make diodes?

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

Answer: B) Silicon

14. Which part of bendix drive starting system limit the

turning of the sleeve on the armature shaft?

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

Answer: A) Bendix drive spring

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

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

Answer: B) Alternator noisy

16. Where the starter motor located?

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

Answer: B) Rear side of engine

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

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

Answer: A) Rotate the alternator rotor

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

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

Answer: C) Damage to starter motor

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

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

Answer: B) Support the pre lubricated sealed bearing

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

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

Answer: A) Prevent pinion striking fly wheel

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

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

Answer: B) Series type

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

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

Answer: A) Battery discharged

23. What is the function of rotor assembly?

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

Answer: A) Carriers driving pulley and cooling fan

24. What is the function of diodes?

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

Answer: B) Convert AC to DC

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

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

Answer: B) Pull in winding

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

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

Answer: D) Faulty regulator

27. 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

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

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

Answer: B) 100 RPM

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

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

Answer: A) Starter motor running but not cranking

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

A) Prevent sliding movement of pinion B) Operate the solenoid

C) Drive the armature shaft D) Protect armature from damage

Answer: D) Protect armature from damage
