

February 2026

Question Paper

Duration: 30 Mins

Total Marks: 30

ID: ITISKILL9728DR

Student Name: _____	Roll No: _____
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1. What is the function of drive end frame in the alternator?

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

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

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

3. 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) Increase the fuel efficiency |
| C) Prevent damage to starter motor | D) Prevent wastage of current |

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

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

5. What is the material used to make diodes?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

13. What is the function of rotor assembly?

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

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

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

15. Which part of bendix drive starting system limit the

turning of the sleeve on the armature shaft?

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

16. 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

17. 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

18. What is the working principle of alternator?

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

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

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

20. What causes no charge when engine is running?

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

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

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

22. What is the purpose of alternator?

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

23. Where the starter motor located?

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

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

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

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

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

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

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

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

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

28. What is the function of solenoid switch?

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

29. What is the function of diodes?

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

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

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