

May 2026

GITI BIDKALKATTE

Question Paper

Duration: 64 Mins

Total Marks: 20

ID: ITISKILL9500R4

Student Name: _____	Roll No: _____
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1. What is the purpose of V pulley in the charging system?

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

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

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

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

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

4. 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 |

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

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

6. Where the starter motor located?

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

7. What is the function of solenoid switch?

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

8. What will be the result of worn teeth of ring gear in the

starting system?

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

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

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

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

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

11. What is the function of diodes?

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

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

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

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

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

14. 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 dissipation | D) Prevent wear on commutator |

15. What is the purpose of alternator?

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

16. What is the material used to make diodes?

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

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

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

18. What causes no charge when engine is running?

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

19. What is the working principle of alternator?

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

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

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