

February 2026

Question Paper

Duration: 30 Mins

Total Marks: 30

ID: ITISKILL3523NI

Student Name: _____	Roll No: _____
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1. What is the material used to make diodes?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5. What is the function of solenoid switch?

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

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

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

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

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

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

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

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

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

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

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

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

15. Which type of DC starter motor generally used in automoniles?

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

16. 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

17. Where the starter motor located?

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

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

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

19. What is the purpose of alternator?

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

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

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

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

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

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

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

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

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

24. What is the function of rotor assembly?

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

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

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

26. What is the working principle of alternator?

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

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

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

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

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

29. What is the function of diodes?

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

30. What causes no charge when engine is running?

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