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Score: 22/30 (73.33%)

Code: 4612

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

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

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

- A) **Series type**
 B) Shunt type (Incorrect)
 C) Compound type
 D) Parallel type

3. What is the working principle of alternator?

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

4. What is the material used to make diodes?

- A) Mica
 B) **Silicon (Correct)**
 C) Alumina foil
 D) Graphite

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

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

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

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

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

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

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

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

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

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

10. What is the function of solenoid switch?

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

11. What is the function of rotor assembly?

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

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

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

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

- A) 180 RPM
 B) 200 RPM
 C) **100 RPM (Correct)**
 D) 150 RPM

14. Where the starter motor located?

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

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

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

16. 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 (Correct)**
 B) Prevent wastage of current

- C) Reduce the wear on commutator
D) Increase the fuel efficiency

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

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

18. What is the purpose of alternator?

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

19. What is the function of diodes?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

30. What causes no charge when engine is running?

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