

Student Name: _____ Roll No: _____

1. Which light provide effective illumination during snowfall?

- A) Fog light
B) Parking light
C) Head light
D) Stop light

2. What is the ratio between lateral strain and longitudinal strain?

- A) Hooks law
B) Young's modulus
C) Poisson's ratio
D) Bulk modulus

3. What is the purpose of alternator?

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

4. What is the advantage of using side indicator in a vehicle?

- A) Indicate the vehicle behind
B) Provide effective illumination
C) Prevent accident while turning left and right
D) Provide enough visibility

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

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

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

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

7. Which light give indication to the traffic behind the vehicle for slowing down?

- A) Dome light
B) Fog light
C) Stop light
D) Head light

8. What is the working principle of alternator?

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

9. What is the gas filled in the sealed beam head lights?

- A) Nitrogen gas
B) Hydrogen gas

C) Argon gas
D) Oxygen gas

10. What is the material used to make diodes?

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

11. Which symbol is used to express change in length?

- A) l
B) e
C) Δl
D) L

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

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

13. Which lighting circuit provided with dip and dim switch?

- A) Head light circuit
B) Parking light circuit
C) Panel light circuit
D) Fog light circuit

14. What is the colour of pilot lamp provided in the vehicle?

- A) Orange
B) White
C) Green
D) Red

15. What is the purpose of dome light circuit?

- A) Panel board gauges indication
B) Interior illumination
C) Provide enough visibility to driver
D) Used for parking vehicle on road

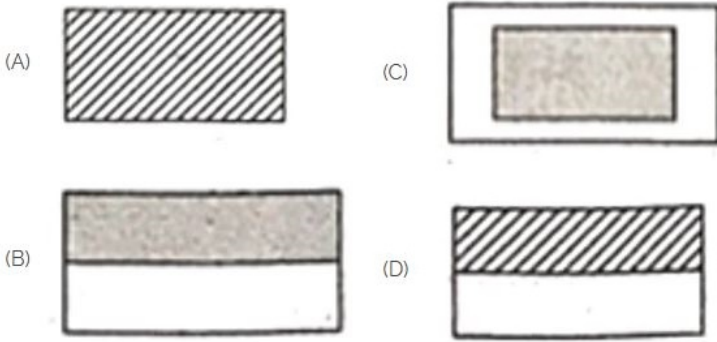
16. What is the purpose of V ? pulley in the charging system?

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

17. Which force acts on rivets?

- A) Tensile force
B) Compressive force
C) Bending force
D) Shear force

18. Choose the symbol for main fuse board without switches (P). | ಸ್ವಿಚ್‌ಗಳು (ಪಿ) ಇಲ್ಲದೆ ಮುಖ್ಯ ಫ್ಯೂಸ್ ಬೋರ್ಡ್‌ಗಾಗಿ ಚಿಹ್ನೆಯನ್ನು ಆರಿಸಿ.



- A) D
C) B
- B) C
D) A

19. Where the starter motor located?

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

20. What is the use of tail light?

- A) Indication to vehicle behind
C) Provide interior illumination
- B) Provide enough visibility
D) Indication to slowing down

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

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

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

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

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

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

24. What is the unit of strain?

- A) No unit
C) Kg/cm^2
- B) Metre
D) Newton/metre^2

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

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

26. What is the use of single red lamp of 24 watts fitted at the rear?

- A) Provide enough visibility
C) Give indication the traffic behind
- B) Help driver to see full width of road
D) Provide interior illumination

27. What is the ratio of change in length to original length?

- A) Linear strain
C) Lateral strain
- B) Volumetric strain
D) Poisson's ratio

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

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

29. What is the function of solenoid switch?

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

30. Which circuit provide miniature bulbs to know the working gauges?

- A) Parking light circuit
C) Head light circuit
- B) Stop light circuit
D) Panel light circuit

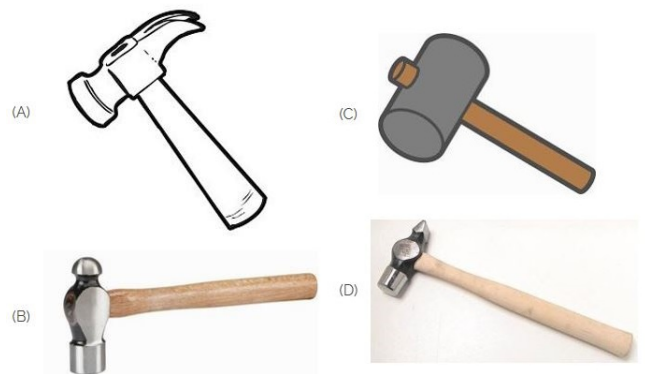
31. Which type of lights provide maximum brightness in a shorter time?

- A) Neon light
C) LED light
- B) Halogan light
D) LCD light

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

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

33. Which is ball peen hammer? | ಬಾಲ್ ಪೀನ್ ಸುತ್ತಿಗೆ ಯಾವುದು?



- A) B
B) D

C) C

D) A

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

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

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

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

36. Which one is the ratio of stress?

- A) Load and direction
B) Load and area
C) Load and time
D) Load and diameter

37. What is the formula for bulk modulus?

- A) Tensile stress/Tensile strain
B) Shear stress/Shear strain
C) Compressive stress/Compressive strain
D) Volumetric stress/Volumetric strain

38. What causes no charge when engine is running?

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

39. Which device is used to start and stop a motor? |
ಮೋಟಾರ್ ಅನ್ನು ಪ್ರಾರಂಭಿಸಲು ಮತ್ತು ನಿಲ್ಲಿಸಲು ಯಾವ ಸಾಧನವನ್ನು ಬಳಸಲಾಗುತ್ತದೆ?

- A) Stator | ಸ್ಟೇಟರ್
B) Slip ring | ಸ್ಲಿಪ್ ರಿಂಗ್
C) Starter | ಸ್ಟಾರ್ಟರ್
D) Rotor | ರೋಟರ್

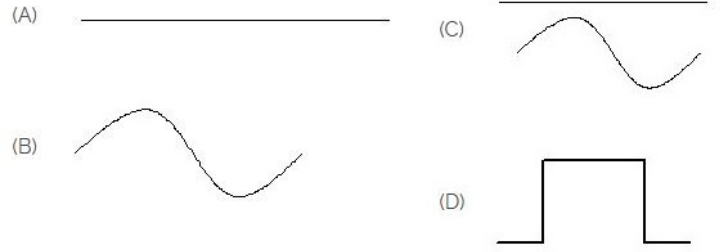
40. What is the colour of front indicator lamps?

- A) Green
B) White
C) Red
D) Orange

41. Which type of head light provide 25% more light than sealed beam head lights?

- A) Neon type head light
B) LCD type head light
C) Halogon head light
D) LED type head light

42. Identify the symbol for direct and alternating current. |
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A) B

B) A

C) D

D) C

43. What is the function of diodes?

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

44. What is the use of two small lamps fitted front and rear of vehicle?

- A) Used for visibility
B) Provide illumination
C)
D) Used for parking on the road

45. What is the use of cornering light in a vehicle?

- A) Provide enough visibility to driver
B) Highlight the blind spot during bend
C) Provide interior illumination
D) Indicate traffic behind vehicle

46. What is the ratio between the change in dimension to its original dimension of the substance?

- A) Stress
B) Factor of safety
C) Poisson's ratio
D) Strain

47. What is the purpose of indexing pin provided in the bulb case?

- A) For easy identification
B) Retain the bulb in the socket
C) Prevent damage to light
D) Complete the circuit

48. Where the red colour indicator lamps are provided in the vehicle?

- A) Front side
B) Rear side
C) Pilot lamp
D) Side of vehicle

49. What is the expansion of LED?

- A) Limited electrical data
B) Light electronic diodes
C) Light emitting diodes
D) Long electrical diodes

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

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

