Loyola ITI

April 2026 | **Loyola ITI** | Q. ID: ITISKILL77715Q | Question Paper

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Score: 20/50 (40.00%)
Code: 6345

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

A) Red | **B) Green (Correct)**
C) White | D) Orange

2. What is the colour of front indicator lamps?

A) Red | B) White
C) Green (Incorrect) | **D) Orange**

3. What is the expansion of LED?

A) Long electrical diodes (Incorrect) | B) Light electronic diodes
C) Light emitting diodes | D) Limited electrical data

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

A) Oxygen gas (Incorrect) | B) Nitrogen gas
C) Argon gas | D) Hydrogen gas

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

A) Front side | B) Pilot lamp
C) Side of vehicle | **D) Rear side (Correct)**

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

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

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

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

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

A) Neon type head light | **B) Halogon head light**
C) LED type head light (Incorrect) | D) LCD type head light

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

A) LED light | B) LCD light (Incorrect)
C) Halogan light | D) Neon light

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

A) Complete the circuit | **B) Retain the bulb in the socket (Correct)**
C) Prevent damage to light | D) For easy identification

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

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

12. What is the use of tail light?

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

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

A) Stop light (Correct) | B) Fog light
C) Dome light | D) Head light

14. Which light provide effective illumination during snowfall?

A) Head light | B) Parking light (Incorrect)
C) Fog light | D) Stop light

15. What is the purpose of dome light circuit?

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

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

A) Panel light circuit | B) Head light circuit
C) Parking light circuit | D) Stop light circuit (Incorrect)

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

A) Used for visibility | B) Provide illumination
C) Used for parking on the road (Correct)

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

A) Parking light circuit (Incorrect) | **B) Head light circuit**
C) Panel light circuit | D) Fog light circuit

19. 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 rectifiter mounting plates

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

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

21. What is the working principle of alternator?

A) Ohms law (Incorrect) | B) Law of resistance
C) Electromagnetic induction | D) Lenz's law

22. What is the material used to make diodes?

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

23. 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

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

A) For lubricantion | **B) For fitting insulated windings**
C) For easy fitting | D) Provide space for cooling (Incorrect)

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

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

26. 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)

27. 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 | D) Shift the lever to engage the plunger (Incorrect)

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

A) Pull in winding | B) Hold in winding
C) Compound winding (Incorrect) | D) Primary winding

29. 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

30. 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

31. 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 | B) Prevent wastage of current
C) Reduce the wear on commutator (Incorrect) | D) Increase the fuel efficiency

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

A) By welding (Incorrect) | **B) By soldering**
C) By riveting | D) By brazing

33. What is the purpose of alternator?

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

34. What is the function of diodes?

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

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

A) Voltage regulator B) Current regulator
C) Distributor assembly D) Alternator (Incorrect)

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

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

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

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

38. What causes no charge when engine is running?

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

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

A) Stress **B) Strain (Correct)**
C) Poisson's ratio D) Factor of safety

40. What is the unit of strain?

A) Kg/cm² B) Newton/metre² (Incorrect)
C) Metre **D) No unit**

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

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

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

A) Hooks law B) Young's modulus
C) Bulk modulus **D) Poisson's ratio (Correct)**

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

A) L **B) delta l (Correct)**
C) I D) e

44. Which one is the ratio of stress?

A) Load and area B) Load and direction
C) Load and diameter (Incorrect) D) Load and time

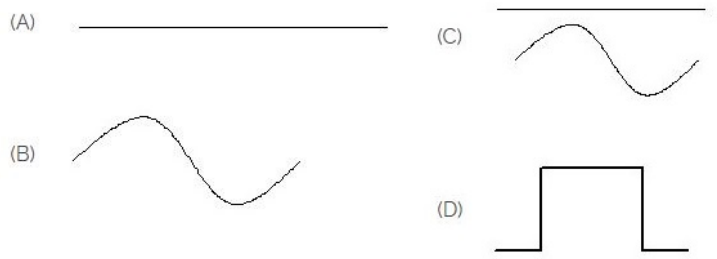
45. Which force acts on rivets?

A) Tensile force B) Compressive force
C) Shear force D) Bending force (Incorrect)

46. What is the formula for bulk modulus?

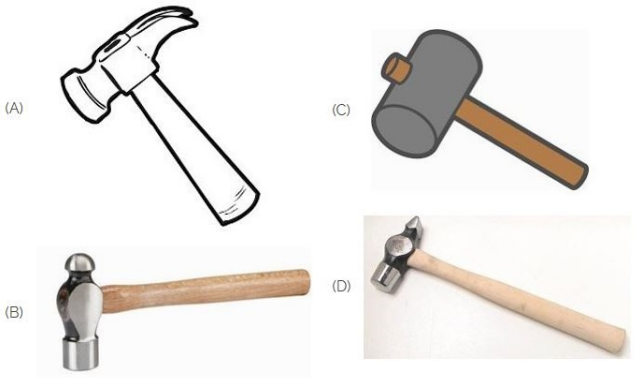
A) Tensile stress/Tensile strain B) Compressive stress/Compressive strain
C) Volumetric stress/Volumetric strain D) Shear stress/Shear strain (Incorrect)

47. Identify the symbol for direct and alternating current. | ನೇರ ಮತ್ತು ಪರ್ಯಾಯ ಪ್ರವಾಹದ ಚಿಹ್ನೆಯನ್ನು ಗುರುತಿಸಿ.



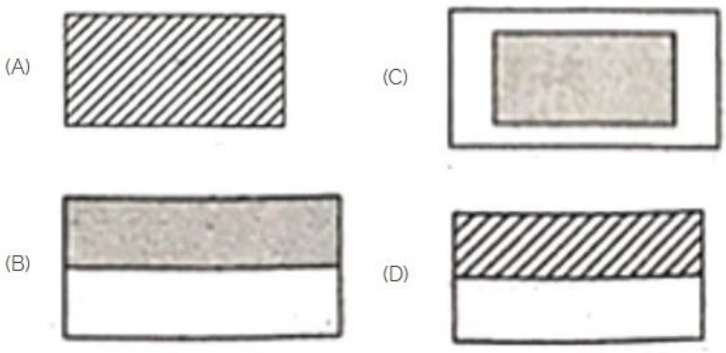
A) A B) B
C) C (Correct) D) D

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



A) A **B) B (Correct)**
C) C D) D

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



A) A (Incorrect) B) B
C) C D) D

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

A) Rotor | ರೋಟರ್

B) Starter | ಸ್ಟಾರ್ಟರ್

C) Stator | ಸ್ಟೇಟರ್ (Incorrect)

D) Slip ring | ಸ್ಲಿಪ್ ರಿಂಗ್