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Question Paper

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Score: 24/52 (46.15%)

Code: 2302

1. What is the battery system used for heavy vehicles?

A) 6 volts
B) 12 volts
C) 24 volts (Correct)
D) Provide caution to the driver

2. What is the working principle of clutch?

A) Sliding
B) Centripetal
C) Friction
D) Screw and Nut (Incorrect)

3. What is the permitted diffraction angle of tripod joint?

A) 13 Degree
B) 18 Degree
C) 26 Degree (Correct)
D) 32 Degree

4. Which type of joint permit small diffraction angle and linear variations?

A) Flexible discs
B) Double joint
C) Pot joint
D) Tripod joint (Incorrect)

5. What is the permitted diffraction angle of double joint?

A) 50 Degree (Correct)
B) 62 Degree
C) 58 Degree
D) 72 Degree

6. What is the permitted diffraction angle of pot joint?

A) 18 Degree
B) 20 Degree
C) 22 Degree (Correct)
D) 26 Degree

7. Which type of gear converts rotary motion in to linear motion and vice versa?

A) Helical gears (Incorrect)
B) Rack and Pinion
C) Spur gear
D) Bevel gear

8. Which type of gear will not produce axial thrust while transmitting torque

A) Helical gears (Incorrect)
B) Worm gears
C) Spiral bevel gear
D) Spur gear

9. Which type of gear will have more than one tooth in contact at the same time

A) Spur gear
B) Rack and Pinion
C) Helical gear (Correct)
D) Spur bevel gear

10. Which type of gear teeth are straight and parallel to the gear axis

A) Spur gear
B) Helical gear (Incorrect)
C) Worm gear
D) Bevel gear

11. Which type of seal allows a controlled amount of fluid leakage to lubricant moving parts?

A) Static seal
B) Positive seal
C) Non - positive seal (Correct)
D) Dynamic seal

12. What is the name of seal used between two parts that do not move in relation to each other?

A) Dynamic seal
B) Static seal
C) Square cut seal
D) Teflow seal (Incorrect)

13. What is the advantage of using constant mesh gear box?

A) Quick change of gear obtained
B) Wrong adjustment of gear will not affect the function (Incorrect)
C) Smooth power transmission
D) Efficient lubrication possible

14. Which type of gear box provided with helical gears?

A) Auto synchromesh gear box
B) Constant mesh gear box
C) Sliding mesh gear box
D) Synchromesh gear box (Incorrect)

15. What is the advantage of dual mass fly wheel?

A) Prevent wrong clutch engagements (Incorrect)
B) Reduction of gear box and body noises
C) Transmit the torque with less effort
D) Reduce the possibility of clutch slip

16. Which part of dual mass fly wheel isolate the fly wheel mass system of the engine?

A) Gear box
B) Vibration damper
C) Crank shaft
D) Cam shaft (Incorrect)

17. Which is noise free clutch?

A) Single plate clutch
B) Diaphragm spring type clutch (Correct)
C) Multi plate clutch
D) Dog clutch

18. What is the advantage of dog clutch?

A) No possibility of slip
B) More frictional area

C) Less pedal force to operate | D) Easy maintenance and repair (Incorrect)

19. Which type of clutch provides more frictional area and simple in construction?

A) Diaphragm spring clutch (Incorrect) | **B) Cone clutch**
C) Dog clutch | D) Multi plate clutch

20. What is the advantage of using single plate hydraulic clutch?

A) Minimize the force to operate the clutch | B) Effective frictional force obtained
C) Reduce the wear on the clutch plate (Incorrect) | D) Easy repair and maintance

21. What is the main feature of hydraulic actuated clutches?

A) Pedal effort transmitted through linkage (Incorrect) | **B) Pedal effort transmitted through spring**
C) Pedal effort transmitted through fluid | D) Pedal effort transmitted through coupling

22. What is the advantage of mechanical actuated type clutches?

A) Less maintenance and repair (Correct) | B) Less pedal effort
C) Smooth functioning | D) Easy to operate

23. Which factor does not affect the torque transmission by clutch?

A) Size of clutch plat | B) Co-efficient of friction
C) Number of clutch plates used (Incorrect) | **D) Axial load on the clutch**

24. What is the function of clutch?

A) Increase and decrease the RPM of engine | **B) Connect and disconnect power flow engine to gear box (Correct)**
C) Reduce the noise during engine running | D) Prevent malfunctioning of fly wheel

25. Which system making the drive cabin comfortable for driving?

A) HVAC system (Correct) | B) Starting system
C) Steering system | D) Charging system

26. Which system deals with alternator?

A) Steering system | B) Starting system
C) Charging system | D) HVAC system (Incorrect)

27. Which system provides DC power source for the various units of the vehicles?

A) Storage system (Correct) | B) Charging system
C) Lighting system | D) Steering system

28. Which system not connected with electrical system?

A) Steering system | B) Charging system
C) Transmission system | D) Suspension system (Incorrect)

29. Which type of system is to isolate the vehicle body from road shock and vibration?

A) Control system | **B) Suspension system**
C) Hydraulic system (Incorrect) | D) Steering system

30. Which part of heavy vehicle deals with static and dynamic loads without deflection or distortion?

A) Engine | B) Power trains
C) Control system (Incorrect) | **D) Chassis and frames**

31. Which way the steering system increase the tire life?

A) By maintaining proper angle between tyres | B) Providing adequate lubrication
C) By applying grease on the steering controls (Incorrect) | D) Providing proper brake adjustment

32. What is the advantage of using power steering system?

A) To increase the engine power | B) To reduce the fuel consumption
C) To enhance the fuel efficiency | **D) To turn and control vehicle with less effort (Correct)**

33. What is the function of steering system?

A) To control the braking system | B) To increase the engine RPM (Incorrect)
C) To guide the vehicle | D) To control the fuel system

34. What is the role of ABS brakes?

A) Provide positive braking | B) Increase frictional power
C) Prevents skidding of vehicles | D) Reduce the brake failures (Incorrect)

35. What is the permitted range of pedal play observed in the heavy vehicle?

A) 6 -10 mm | B) 2 -4 mm
C) 15 -18 mm | D) 16 -20 mm (Incorrect)

36. Which type of drive line used in high gears and high speed applications?

A) Front wheel drive line | B) Rear wheel drive line

C) All wheel drive line (Correct) D) Center wheel drive line

37. Which type of gear box can be operated even by unskilled driver?

A) Synchromesh gear box (Correct) B) Sliding mesh gear box

C) Constant mesh gear box D) Compound wheel mesh gear box

38. Which type of synchromesh gear box will produce torque more than three times of other types?

A) Baulk type B) Baulk ring type

C) Multi and Double cone (Correct) D) Porche type

39. Which type of synchromesh gear box used for heavy commercial vehicles?

A) Baulk type **B) Multi and double cone type (Correct)**

C) Baulk ring type D) Porche type

40. Which type of gear will not produce axial thrust but it neutralizes the axial thrust?

A) Bevel gear **B) Herring bone gears (Correct)**

C) Spur gear D) Worm gear

41. Which gear will produce clicking noise during teeth contact?

A) Spur gear (Correct) B) Bevel gear

C) Helical gear D) Worm gear

42. Which part connects propeller shaft?

A) Clutch shaft and fly wheel **B) Gear box and final drive (Correct)**

C) Cam shaft and clutch shaft D) Crankshaft and final drive

43. Which part provides flexible connection and permits smooth transfer of torque from gear box to the rear axle?

A) Universal joint B) Fly wheel (Incorrect)

C) Half shaft D) Clutch shaft

44. What is the necessity of square cut seals?

A) Prevent fluid leakage **B) Prevent the seal rolling in groove**

C) Provide cushioning effect D) Withstand radial movement (Incorrect)

45. What is the possible reason for gear slip?

A) Wrong selection gear shift lever **B) Excessive end float of gear (Correct)**

C) Wrong clutch engagement D) Wornout clutch plate

46. What is the reason of gear locked in one gear position?

A) Synchronizer wornout B) Gear teeth wornout

C) Synchronizing unit stuck (Correct) D) In adequate lubrication

47. How to rectify the hard gear shifting?

A) Lubricate the unit B) Check and realign

C) Adjust clutch pedal free play (Correct) D) Re - install springs correctly

48. What causes noisy gear box in neutral position?

A) Synchronizing unit stuck **B) Bearing worn out or dry (Correct)**

C) Synchronizer defective D) Synchronizer worn-out

49. What will be the result of defective clutch?

A) Noise in gear shifting (Correct) B) Gear slip

C) Gear locked in one gear D) Gear clash during shifting

50. What is the cause of hard gear shifting?

A) Bearing worn out **B) Synchronizing unit damaged**

C) Synchronizing unit stuck D) Fly wheel ring wornout (Incorrect)

51. Which type of gear box eliminates the defect of gear wheels move on the shaft to mesh with each other?

A) Sliding mesh gear box **B) Synchromesh gear box**

C) Constant mesh gear box D) Compound wheel mesh gear box (Incorrect)

52. Why synchromesh action is needed in a gear box?

A) Provide noise in gear shifting B) Prevent cushioning effect during gear shifting (Incorrect)

C) Easy gear shifting when vehicle in motion D) Damage the gear teeth during gear change