

Student: 00000000000000

Score: 23/53 (43.40%)

Code: 1150

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

3. Which instrument is used to check the face out of the fly wheel?

- A) Dial indicator**
C) Outside micrometer
B) Bore dial gauge
D) Inside micrometer (Incorrect)

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

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

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

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

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

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

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

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

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

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

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

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

10. Which type of gear will have more than one tooth in

contact at the same time

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

18. Which is noise free clutch?

A) Single plate clutch

C) Multi plate clutch
(Incorrect)

B) Diaphragm spring type clutch

D) Dog clutch

19. What is the advantage of dog clutch?

A) No possibility of slip

C) Less pedal force to operate (Incorrect)

B) More frictional area

D) Easy maintenance and repair

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

A) Diaphragm spring clutch
(Incorrect)

C) Dog clutch

B) Cone clutch

D) Multi plate clutch

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

A) Minimize the force to operate the clutch

C) Reduce the wear on the clutch plate (Incorrect)

B) Effective frictional force obtained

D) Easy repair and maintenance

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

A) Pedal effort transmitted through linkage

C) Pedal effort transmitted through fluid

B) Pedal effort transmitted through spring (Correct)

D) Pedal effort transmitted through coupling

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

A) Less maintenance and repair

C) Smooth functioning

B) Less pedal effort

D) Easy to operate (Incorrect)

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

A) Size of clutch plate

C) Number of clutch plates used (Incorrect)

B) Co-efficient of friction

D) Axial load on the clutch

25. What is the function of clutch?

A) Increase and decrease the RPM of engine

C) Reduce the noise during engine running

B) Connect and disconnect power flow engine to gear box (Correct)

D) Prevent malfunctioning of fly wheel

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

A) HVAC system (Correct)

C) Steering system

B) Starting system

D) Charging system

27. Which system deals with alternator?

A) Steering system

C) Charging system

B) Starting system

D) HVAC system (Incorrect)

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

A) Storage system

C) Lighting system

B) Charging system

D) Steering system (Incorrect)

29. Which system not connected with electrical system?

A) Steering system

C) Transmission system (Correct)

B) Charging system

D) Suspension system

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

A) Control system

C) Hydraulic system (Incorrect)

B) Suspension system

D) Steering system

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

A) Engine

C) Control system

B) Power trains

D) Chassis and frames (Correct)

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

A) By maintaining proper angle between tyres (Correct)

C) By applying grease on the steering controls

B) Providing adequate lubrication

D) Providing proper brake adjustment

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

A) To increase the engine power

C) To enhance the fuel efficiency (Incorrect)

B) To reduce the fuel consumption

D) To turn and control vehicle with less effort

34. What is the function of steering system?

A) To control the braking system

C) To guide the vehicle (Correct)

B) To increase the engine RPM

D) To control the fuel system

35. What is the role of ABS brakes?

A) Provide positive braking

C) Prevents skidding of vehicles (Correct)

B) Increase frictional power

D) Reduce the brake failures

36. 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 (Incorrect)
- D) 16 -20 mm

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

- A) Front wheel drive line (Incorrect)
- B) Rear wheel drive line
- C) **All wheel drive line**
- D) Center wheel drive line

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

- A) **Synchromesh gear box**
- B) Sliding mesh gear box
- C) Constant mesh gear box
- D) Compound wheel mesh gear box (Incorrect)

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

- A) Baulk type
- B) Baulk ring type (Incorrect)
- C) **Multi and Double cone**
- D) Porche type

40. 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

41. 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

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

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

43. 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

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

- A) **Universal joint (Correct)**
- B) Fly wheel
- C) Half shaft
- D) Clutch shaft

45. What is the necessity of square cut seals?

A) Prevent fluid leakage

B) Prevent the seal rolling in groove (Correct)

C) Provide cushioning effect

D) Withstand radial movement

46. What is the possible reason for gear slip?

- A) Wrong selection gear shift lever (Incorrect)
- B) **Excessive end float of gear**
- C) Wrong clutch engagement
- D) Wornout clutch plate

47. 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

48. 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

49. 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

50. What will be the result of defective clutch?

- A) **Noise in gear shifting**
- B) Gear slip
- C) Gear locked in one gear (Incorrect)
- D) Gear clash during shifting

51. What is the cause of hard gear shifting?

- A) Bearing worn out
- B) **Synchronizing unit damaged**
- C) Synchronizing unit stuck (Incorrect)
- D) Fly wheel ring wornout

52. 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 (Incorrect)
- B) **Synchromesh gear box**
- C) Constant mesh gear box
- D) Compound wheel mesh gear box

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

- A) Provide noise in gear shifting
- B) Prevent cushioning effect during gear shifting
- C) **Easy gear shifting when vehicle in motion (Correct)**
- D) Damage the gear teeth during gear change