

ITI Quiz - 25-Sep-2026

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Q. ID: ITISKILL0567C8

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Answer Key

Duration: 30 Mins

Total Marks: 52

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

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

Answer: C) Synchromesh gear box

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

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

Answer: D) 22 Degree

3. 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
- D) Dynamic seal

Answer: C) Non - positive seal

4. What is the advantage of dog clutch?

- A) More frictional area
- B) Less pedal force to operate
- C) No possibility of slip
- D) Easy maintenance and repair

Answer: C) No possibility of slip

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

- A) Spur gear
- B) Bevel gear
- C) Worm gear
- D) Helical gear

Answer: A) Spur gear

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

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

Answer: C) Vibration damper

7. What is the working principle of clutch?

- A) Screw and Nut
- B) Centripetal
- C) Sliding
- D) Friction

Answer: D) Friction

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

- A) Worm gear
- B) Bevel gear
- C) Spur gear
- D) Helical gear

Answer: C) Spur gear

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

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

Answer: B) 24 volts

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

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

Answer: D) Multi and Double cone

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

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

Answer: A) All wheel drive line

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

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

Answer: B) Universal joint

13. Which system not connected with electrical system?

- A) Transmission system
- B) Charging system
- C) Steering system
- D) Suspension system

Answer: A) Transmission system

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

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

Answer: D) Minimize the force to operate the clutch

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

- A) Pedal effort transmitted through linkage
- B) Pedal effort transmitted through fluid

- C) Pedal effort transmitted through spring D) Pedal effort transmitted through coupling

Answer: C) Pedal effort transmitted through spring

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

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

Answer: A) Spur gear

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

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

Answer: B) Less maintenance and repair

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

- A) Gear teeth wornout B) Synchronizing unit stuck
C) Synchronizer wornout D) In adequate lubrication

Answer: B) Synchronizing unit stuck

19. What is the function of steering system?

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

Answer: A) To guide the vehicle

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

- A) Charging system B) Lighting system
C) Storage system D) Steering system

Answer: C) Storage system

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

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

Answer: B) 26 Degree

22. What is the necessity of square cut seals?

- A) Provide cushioning effect B) Prevent fluid leakage
C) Withstand radial movement D) Prevent the seal rolling in groove

Answer: D) Prevent the seal rolling in groove

23. What causes noisy gear box in neutral position?

- A) Synchronizer defective B) Bearing worn out or dry
C) Synchronizing unit stuck D) Synchronizer worn-out

Answer: B) Bearing worn out or dry

24. What is the permitted range of pedal play observed in the

heavy vehicle?

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

Answer: D) 6 -10 mm

25. What is the function of clutch?

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

Answer: B) Connect and disconnect power flow engine to gear box

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

- A) 50 Degree B) 72 Degree
C) 58 Degree D) 62 Degree

Answer: A) 50 Degree

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

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

Answer: C) Reduction of gear box and body noises

28. What is the role of ABS brakes?

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

Answer: B) Prevents skidding of vehicles

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

- A) Control system B) Power trains
C) Chassis and frames D) Engine

Answer: C) Chassis and frames

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

- A) Spur gear B) Herring bone gears
C) Bevel gear D) Worm gear

Answer: B) Herring bone gears

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

- A) Charging system B) HVAC system
C) Starting system D) Steering system

Answer: B) HVAC system

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

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

Answer: C) By maintaining proper angle between tyres

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

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

Answer: B) To turn and control vehicle with less effort

34. What will be the result of defective clutch?

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

Answer: A) Noise in gear shifting

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

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

Answer: B) Rack and Pinion

36. Which system deals with alternator?

- A) Steering system B) Charging system
C) HVAC system D) Starting system

Answer: B) Charging system

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

- A) Control system B) Hydraulic system
C) Suspension system D) Steering system

Answer: C) Suspension system

38. Which part connects propeller shaft?

- A) Crankshaft and final drive B) Clutch shaft and fly wheel
C) Gear box and final drive D) Cam shaft and clutch shaft

Answer: C) Gear box and final drive

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

- A) Dog clutch B) Cone clutch
C) Diaphragm spring clutch D) Multi plate clutch

Answer: B) Cone clutch

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

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

Answer: B) Flexible discs

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

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

Answer: A) Easy gear shifting when vehicle in motion

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

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

Answer: B) Static seal

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

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

Answer: C) Smooth power transmission

44. Which is noise free clutch?

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

Answer: A) Diaphragm spring type clutch

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

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

Answer: A) Synchromesh gear box

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

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

Answer: C) Axial load on the clutch

47. How to rectify the hard gear shifting?

- A) Re - install springs correctly B) Check and realign
C) Lubricate the unit D) Adjust clutch pedal free play

Answer: D) Adjust clutch pedal free play

48. What is the possible reason for gear slip?

- A) Wrong clutch engagement B) Wrong selection gear shift lever

- C) Wornout clutch plate D) Excessive end float of gear

Answer: D) Excessive end float of gear

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

- A) Multi and double cone type B) Porche type
C) Baulk type D) Baulk ring type

Answer: A) Multi and double cone type

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

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

Answer: B) Constant mesh gear box

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

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

Answer: C) Helical gear

52. What is the cause of hard gear shifting?

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

Answer: C) Synchronizing unit damaged