

ITI Quiz - 14-Oct-2026

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Q. ID: ITISKILL6609DA

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Answer Key

Duration: 50 Mins

Total Marks: 53

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1. What is the possible reason for gear slip?

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

Answer: C) Excessive end float of gear

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

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

Answer: D) All wheel drive line

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

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

Answer: A) Static seal

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

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

Answer: B) Suspension system

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

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

Answer: B) Reduction of gear box and body noises

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

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

Answer: C) 24 volts

7. What is the working principle of clutch?

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

Answer: A) Friction

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

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

Answer: B) Synchromesh gear box

9. 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
- D) Axial load on the clutch

Answer: D) Axial load on the clutch

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

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

Answer: B) 26 Degree

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

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

Answer: C) Dial indicator

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

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

Answer: C) Cone clutch

13. Which system not connected with electrical system?

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

Answer: C) 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. Which type of joint permit small diffraction angle and linear variations?

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

Answer: B) Flexible discs

16. 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 D) Porche type

Answer: C) Multi and Double cone

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

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

Answer: A) Easy gear shifting when vehicle in motion

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

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

Answer: B) Spur gear

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

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

Answer: B) Non - positive seal

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

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

Answer: B) Herring bone gears

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

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

Answer: A) Multi and double cone type

22. Which part connects propeller shaft?

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

Answer: D) Gear box and final drive

23. What is the function of steering system?

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

Answer: D) To guide the vehicle

24. What is the role of ABS brakes?

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

Answer: C) Prevents skidding of vehicles

25. Which system deals with alternator?

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

Answer: D) Charging system

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

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

Answer: A) 50 Degree

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

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

Answer: A) Rack and Pinion

28. Which is noise free clutch?

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

Answer: D) Diaphragm spring type clutch

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

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

Answer: D) Synchronizing unit stuck

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

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

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

31. What is the function of clutch?

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

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

32. Which part of heavy vehicle deals with static and dynamic

loads without deflection or distortion?

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

Answer: C) Chassis and frames

33. 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

34. 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) Compound wheel mesh gear box
- D) Constant mesh gear box

Answer: B) Synchromesh gear box

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

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

Answer: A) Universal joint

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

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

Answer: B) Storage system

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

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

Answer: A) Spur gear

38. What will be the result of defective clutch?

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

Answer: D) Noise in gear shifting

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

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

Answer: C) 6 -10 mm

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

- A) Sliding mesh gear box
- B) Auto synchromesh gear box

- C) Synchromesh gear box
- D) Constant mesh gear box

Answer: D) Constant mesh gear box

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

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

Answer: A) Vibration damper

42. What is the advantage of dog clutch?

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

Answer: B) No possibility of slip

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

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

Answer: C) HVAC system

44. What is the cause of hard gear shifting?

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

Answer: A) Synchronizing unit damaged

45. How to rectify the hard gear shifting?

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

Answer: B) Adjust clutch pedal free play

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

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

Answer: D) Less maintenance and repair

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

- A) Pedal effort transmitted through fluid
- B) Pedal effort transmitted through linkage
- C) Pedal effort transmitted through spring
- D) Pedal effort transmitted through coupling

Answer: C) Pedal effort transmitted through spring

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

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

Answer: C) Helical gear

49. What is the necessity of square cut seals?

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

Answer: A) Prevent the seal rolling in groove

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

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

Answer: C) 22 Degree

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

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

Answer: D) Smooth power transmission

52. What causes noisy gear box in neutral position?

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

Answer: B) Bearing worn out or dry

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

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

Answer: C) Spur gear