

# ITI Quiz - 25-Sep-2026

## 09:22 AM

Q. ID: ITISKILL0070UD

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Answer Key

Duration: 50 Mins

Total Marks: 53

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

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

**Answer: C) Pedal effort transmitted through spring**

2. Which system deals with alternator?

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

**Answer: B) Charging system**

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

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

**Answer: A) 22 Degree**

4. What is the role of ABS brakes?

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

**Answer: A) Prevents skidding of vehicles**

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

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

**Answer: A) Non - positive seal**

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

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

**Answer: D) Synchronizing unit stuck**

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

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

**Answer: B) HVAC system**

8. Which system not connected with electrical system?

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

**Answer: D) Transmission system**

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

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

**Answer: A) Smooth power transmission**

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

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

**Answer: C) Less maintenance and repair**

11. What is the cause of hard gear shifting?

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

**Answer: D) Synchronizing unit damaged**

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

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

**Answer: C) 50 Degree**

13. Which is noise free clutch?

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

**Answer: B) Diaphragm spring type clutch**

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

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

**Answer: D) Static seal**

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

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

**Answer: D) Cone clutch**

16. What is the function of steering system?

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

**Answer: D) To guide the vehicle**

**17. How to rectify the hard gear shifting?**

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

**Answer: D) Adjust clutch pedal free play**

**18. 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**

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

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

**Answer: D) Dial indicator**

**20. Which type of gear box provided with helical gears?**

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

**Answer: A) Constant mesh gear box**

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

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

**Answer: A) Synchromesh gear box**

**22. What will be the result of defective clutch?**

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

**Answer: D) Noise in gear shifting**

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

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

**Answer: A) Suspension system**

**24. What is the possible reason for gear slip?**

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

**Answer: B) Excessive end float of gear**

**25. What is the working principle of clutch?**

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

**Answer: D) Friction**

**26. What is the permitted diffraction angle of tripod joint?**

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

**Answer: B) 26 Degree**

**27. Why synchromesh action is needed in a gear box?**

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

**Answer: B) Easy gear shifting when vehicle in motion**

**28. Which way the steering system increase the tire life?**

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

**Answer: A) By maintaining proper angle between tyres**

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

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

**Answer: B) Minimize the force to operate the clutch**

**30. Which part connects propeller shaft?**

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

**Answer: B) Gear box and final drive**

**31. 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) Prevent malfunctioning of fly wheel  
D) Reduce the noise during engine running

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

**32. What is the advantage of dog clutch?**

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

**Answer: C) No possibility of slip**

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

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

**Answer: B) Rack and Pinion**

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

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

**Answer: C) Herring bone gears**

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

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

**Answer: D) Universal joint**

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

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

**Answer: C) Vibration damper**

**37.** Which gear will produce clicking noise during teeth contact?

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

**Answer: A) Spur gear**

**38.** 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) Constant mesh gear box
- C) Synchromesh gear box
- D) Compound wheel mesh gear box

**Answer: C) Synchromesh gear box**

**39.** 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**

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

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

**Answer: C) Multi and double cone type**

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

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

**Answer: D) Spur gear**

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

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

**Answer: D) Storage system**

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

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

**Answer: C) Axial load on the clutch**

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

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

**Answer: A) Helical gear**

**45.** What is the advantage of dual mass fly wheel?

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

**Answer: C) Reduction of gear box and body noises**

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

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

**Answer: B) All wheel drive line**

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

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

**Answer: C) Spur gear**

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

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

**Answer: A) Multi and Double cone**

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

- A) 2 -4 mm
- C) 15 -18 mm

- B) 6 -10 mm
- D) 16 -20 mm

**Answer: B) 6 -10 mm**

**50.** What is the necessity of square cut seals?

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

**Answer: D) Prevent the seal rolling in groove**

**51.** What is the battery system used for heavy vehicles?

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

**Answer: C) 24 volts**

**52.** What is the advantage of using power steering system?

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

**Answer: A) To turn and control vehicle with less effort**

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

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

**Answer: C) Flexible discs**