

ITI Quiz - 25-Sep-2026

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Q. ID: ITISKILL0070UD

September 2026

Question Paper

Duration: 50 Mins

Total Marks: 53

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Student Name: _____ Roll No: _____

1. 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 increase the engine power
- D) To reduce the fuel consumption

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

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

3. 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) Smooth power transmission
- D) Quick change of gear obtained

4. Which system not connected with electrical system?

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

5. What is the function of steering system?

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

6. 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

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

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

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

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

9. 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

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

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

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

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

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

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

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

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

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

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

15. What is the role of ABS brakes?

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

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

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

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

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

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

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

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

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

20. What is the working principle of clutch?

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

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

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

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

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

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

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

24. What will be the result of defective clutch?

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

25. 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 coupling D) Pedal effort transmitted through spring

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

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

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

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

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

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

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

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

30. How to rectify the hard gear shifting?

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

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

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

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

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

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

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

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

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

35. 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

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

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

37. 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

38. Which part connects propeller shaft?

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

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

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

40. Which is noise free clutch?

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

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

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

42. Which system deals with alternator?

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

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

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

44. What is the possible reason for gear slip?

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

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

- A) Smooth functioning
- B) Less maintenance and repair

C) Easy to operate

D) Less pedal effort

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

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

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

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

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

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

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

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

50. What is the cause of hard gear shifting?

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

51. What is the function of clutch?

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

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

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

53. What causes noisy gear box in neutral position?

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