

ITI Quiz - 02-Apr-2026

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Q. ID: ITISKILL7309VO

April 2026

Question Paper

Duration: 30 Mins

Total Marks: 53

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Student Name: _____ Roll No: _____

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

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

2. What causes noisy gear box in neutral position?

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

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

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

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

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

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

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

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

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

7. 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

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

- A) Power trains
- B) Chassis and frames

C) Control system

D) Engine

9. How to rectify the hard gear shifting?

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

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

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

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

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

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

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

13. Which system deals with alternator?

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

14. 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

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

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

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

- A) Starting system
- B) Steering system

C) HVAC system

D) Charging system

C) Vibration damper

D) Cam shaft

17. Which system not connected with electrical system?

A) Charging system

B) Transmission system

C) Suspension system

D) Steering system

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

A) In adequate lubrication

B) Gear teeth wornout

C) Synchronizer wornout

D) Synchronizing unit stuck

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

A) By applying grease on the steering controls

B) Providing proper brake adjustment

C) Providing adequate lubrication

D) By maintaining proper angle between tyres

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

A) Porche type

B) Baulk type

C) Multi and double cone type

D) Baulk ring type

19. What will be the result of defective clutch?

A) Noise in gear shifting

B) Gear slip

C) Gear clash during shifting

D) Gear locked in one gear

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

A) Hydraulic system

B) Suspension system

C) Control system

D) Steering system

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

A) Less pedal effort

B) Less maintenance and repair

C) Smooth functioning

D) Easy to operate

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

A) Constant mesh gear box

B) Compound wheel mesh gear box

C) Sliding mesh gear box

D) Synchromesh gear box

21. What is the working principle of clutch?

A) Centripetal

B) Friction

C) Screw and Nut

D) Sliding

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

A) 26 Degree

B) 18 Degree

C) 32 Degree

D) 13 Degree

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

A) Spur gear

B) Helical gears

C) Bevel gear

D) Rack and Pinion

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

A) Tripod joint

B) Double joint

C) Pot joint

D) Flexible discs

23. Which is noise free clutch?

A) Diaphragm spring type clutch

B) Single plate clutch

C) Dog clutch

D) Multi plate clutch

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

A) 62 Degree

B) 58 Degree

C) 50 Degree

D) 72 Degree

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

A) Lighting system

B) Charging system

C) Storage system

D) Steering system

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

A) Multi plate clutch

B) Dog clutch

C) Diaphragm spring clutch

D) Cone clutch

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

A) Number of clutch plates used

B) Size of clutch plat

C) Co-efficient of friction

D) Axial load on the clutch

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

A) Bevel gear

B) Worm gear

C) Helical gear

D) Spur gear

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

A) Crank shaft

B) Gear box

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

A) Porche type

B) Baulk type

C) Baulk ring type

D) Multi and Double cone

37. 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

38. What is the role of ABS brakes?

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

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

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

40. 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

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

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

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

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

43. What is the advantage of dog clutch?

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

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

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

45. What is the necessity of square cut seals?

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

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

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

47. 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

48. 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

49. What is the cause of hard gear shifting?

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

50. 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

51. Which part connects propeller shaft?

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

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

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

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

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