

ITI Quiz - 24-Sep-2026

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Q. ID: ITISKILL0638DR

September 2026

Question Paper

Duration: 30 Mins

Total Marks: 53

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Student Name: _____ Roll No: _____

1. What is the advantage of dog clutch?

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

A) Wrong clutch engagement

B) Wrong selection gear shift lever

C) Wornout clutch plate

D) Excessive end float of gear

2. What causes noisy gear box in neutral position?

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

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

A) Spur gear

B) Rack and Pinion

C) Helical gear

D) Spur bevel gear

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

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

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

A) Tripod joint

B) Flexible discs

C) Double joint

D) Pot joint

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

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

12. What is the necessity of square cut seals?

A) Prevent the seal rolling in groove

B) Withstand radial movement

C) Provide cushioning effect

D) Prevent fluid leakage

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

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

13. 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

6. What is the working principle of clutch?

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

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

A) Helical gear

B) Bevel gear

C) Spur gear

D) Worm gear

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

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

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

A) Synchronizing unit stuck

B) Synchronizer wornout

C) Gear teeth wornout

D) In adequate lubrication

8. Which system deals with alternator?

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

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

A) Multi and Double cone

B) Baulk type

C) Baulk ring type

D) Porche type

9. What is the possible reason for gear slip?

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

- A) Less pedal effort
- C) Less maintenance and repair

- B) Easy to operate
- D) Smooth functioning

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

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

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

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

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

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

21. Which part connects propeller shaft?

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

22. What is the function of clutch?

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

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

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

24. How to rectify the hard gear shifting?

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

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

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

26. 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 linkage

- D) Pedal effort transmitted through fluid

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

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

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

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

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

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

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

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

31. What is the cause of hard gear shifting?

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

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

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

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

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

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

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

35. Which is noise free clutch?

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

36. 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

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

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

38. Which system not connected with electrical system?

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

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

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

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

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

41. 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

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

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

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

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

44. What is the role of ABS brakes?

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

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

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

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

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

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

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

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

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

49. 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

50. 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

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

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

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

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

53. 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