

ITI Quiz - 14-Oct-2026

10:48 PM

Q. ID: ITISKILL6609DA

October 2026

Question Paper

Duration: 50 Mins

Total Marks: 53

ID: ITISKILL6609DA

Student Name: _____ Roll No: _____

1. What is the role of ABS brakes?

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

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

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

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

9. How to rectify the hard gear shifting?

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

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

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

10. Which is noise free clutch?

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

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

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

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

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

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

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

12. What is the cause of hard gear shifting?

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

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

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

13. What is the advantage of dog clutch?

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

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

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

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

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

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

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

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

16. Which type of gear will not produce axial thrust but it

neutralizes the axial thrust?

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

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

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

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

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

19. What is the necessity of square cut seals?

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

20. 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 |

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

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

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

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

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

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

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

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

25. What will be the result of defective clutch?

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

26. Which system not connected with electrical system?

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

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

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

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

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

29. Which system deals with alternator?

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

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

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

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

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

32. 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 |

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

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

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

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

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

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

36. Which part connects propeller shaft?

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

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

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

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

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

39. What is the working principle of clutch?

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

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

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

41. What is the possible reason for gear slip?

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

42. What is the function of steering system?

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

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

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

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

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

45. Which gear will produce clicking noise during teeth

contact?

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

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

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

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

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

48. 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) Provide noise in gear shifting D) Prevent cushioning effect during gear shifting

49. What causes noisy gear box in neutral position?

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

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

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

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

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

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

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

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

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