

ITI Quiz - 25-Sep-2026

09:13 AM

Q. ID: ITISKILL2329HT

September 2026

Question Paper

Duration: 30 Mins

Total Marks: 53

ID: ITISKILL2329HT

Student Name: _____

Roll No: _____

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

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

2. Which system not connected with electrical system?

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

3. What is the working principle of clutch?

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

4. 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

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

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

6. 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

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

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

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

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

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

- A) Co-efficient of friction
- C) Size of clutch plat

- B) Number of clutch plates used
- D) Axial load on the clutch

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

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

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

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

12. 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

13. What is the possible reason for gear slip?

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

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

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

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

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

16. 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

17. 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 |

18. Which system deals with alternator?

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

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

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

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

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

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

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

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

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

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

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

24. Which part connects propeller shaft?

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

25. 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 |

26. 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 |

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

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

28. What is the necessity of square cut seals?

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

29. What is the function of steering system?

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

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

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

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

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

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

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

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

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

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

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

35. What is the cause of hard gear shifting?

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

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

- A) Starting system
C) Charging system

- B) Steering system
D) HVAC system

- C) Reduce the brake failures D) Provide positive braking

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

45. What is the role of ABS brakes?

- A) Prevents skidding of vehicles B) Increase frictional power

46. Which is noise free clutch?

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

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

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

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

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

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

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

50. How to rectify the hard gear shifting?

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

51. 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

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

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

53. 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