

ITI Quiz - 24-Sep-2026

11:45 AM

Q. ID: ITISKILL7483GG

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Question Paper

Duration: 30 Mins

Total Marks: 53

ID: ITISKILL7483GG

Student Name: _____ Roll No: _____

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

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

2. 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

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

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

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

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

5. 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

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

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

7. What is the function of clutch?

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

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

- A) Baulk type
- B) Multi and double cone type

C) Baulk ring type

D) Porche type

9. 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

10. 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

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

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

12. What is the necessity of square cut seals?

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

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

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

14. What is the working principle of clutch?

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

15. 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

16. What is the cause of hard gear shifting?

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

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

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

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

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

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

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

20. What is the role of ABS brakes?

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

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

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

22. 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 |

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

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

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

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

25. Which part connects propeller shaft?

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

26. Which system deals with alternator?

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

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

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

28. 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 |

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

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

30. 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 |

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

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

32. What will be the result of defective clutch?

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

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

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

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

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

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

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

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

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

37. 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

38. 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) Transmit the torque with less effort
- D) Prevent wrong clutch engagements

39. 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

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

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

41. What causes noisy gear box in neutral position?

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

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

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

43. What is the advantage of dog clutch?

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

44. Which is noise free clutch?

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

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 will not produce axial thrust while transmitting torque

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

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

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

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

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

49. How to rectify the hard gear shifting?

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

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

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

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

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

52. Which system not connected with electrical system?

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

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

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