

ITI Quiz - 15-Oct-2026

09:20 AM

Q. ID: ITISKILL4907EX

October 2026

Question Paper

Duration: 30 Mins

Total Marks: 53

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Student Name: _____ Roll No: _____

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

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

A) 2 -4 mm

B) 6 -10 mm

C) 15 -18 mm

D) 16 -20 mm

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

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

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

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

4. 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) Compound wheel mesh gear box
- C) Sliding mesh gear box
- D) Synchromesh gear box

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

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

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

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

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

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

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

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

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

10. 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

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

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

12. Which is noise free clutch?

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

13. Which part connects propeller shaft?

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

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

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

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

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

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

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

17. 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

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

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

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

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

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

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

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

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

22. Which system not connected with electrical system?

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

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

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

24. How to rectify the hard gear shifting?

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

25. What is the function of steering system?

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

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

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

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

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

28. What is the function of clutch?

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

29. 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

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

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

31. What is the working principle of clutch?

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

32. What is the role of ABS brakes?

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

33. 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

34. What is the possible reason for gear slip?

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

35. 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

36. 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

37. What is the necessity of square cut seals?

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

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

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

39. 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

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

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

41. What will be the result of defective clutch?

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

42. What is the cause of hard gear shifting?

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

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

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

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

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

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

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

46. Which system deals with alternator?

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

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

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

48. 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

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

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

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

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

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

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

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

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

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

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