

ITI Quiz - 05-Oct-2026

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Q. ID: ITISKILL4513QV

October 2026

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Question Paper

Duration: 30 Mins

Total Marks: 38

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Student Name: _____ Roll No: _____

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

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

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

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

3. What is the advantage of dog clutch?

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

4. What is the function of steering system?

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

5. Which system deals with alternator?

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

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

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

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

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

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

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

9. What is the function of clutch?

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

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

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

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

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

12. Which is noise free clutch?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

23. Which system not connected with electrical system?

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

24. What is the role of ABS brakes?

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

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

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

26. What is the working principle of clutch?

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

27. Which factor does not affect the torque transmission by

clutch?

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

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

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

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

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

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

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

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

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

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

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

33. 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

34. 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 fluid
- D) Pedal effort transmitted through linkage

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

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

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

- A) 26 Degree
- B) 18 Degree

C) 13 Degree

D) 32 Degree

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

A) To increase the engine power

B) To enhance the fuel efficiency

C) To reduce the fuel consumption

D) To turn and control vehicle with less effort

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

A) Gear box

B) Vibration damper

C) Cam shaft

D) Crank shaft