

ITI Quiz - 03-Oct-2026

11:50 AM

Q. ID: ITISKILL9135G6

October 2026

Question Paper

Duration: 30 Mins

Total Marks: 38

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Student Name: _____ Roll No: _____

1. 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

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

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

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

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

4. Which system deals with alternator?

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

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

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

6. Which system not connected with electrical system?

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

7. What is the advantage of dog clutch?

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

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

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

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

- A) Porche type
- B) Multi and Double cone

C) Baulk type

D) Baulk ring type

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

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

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

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

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

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

13. 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

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

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

15. 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

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

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

17. What is the advantage of mechanical actuated type

clutches?

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

18. 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 |

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

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

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

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

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

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

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

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

23. What is the role of ABS brakes?

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

24. 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) Static seal | D) Teflow seal |

25. What is the function of steering system?

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

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

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

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

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

28. 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 |

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

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|--|---|
| 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 |

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

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

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

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

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

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

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

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

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

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

35. Which is noise free clutch?

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

36. What is the working principle of clutch?

- A) Sliding
- C) Friction

- B) Screw and Nut
- D) Centripetal

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

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

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

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