

ITI Quiz - 25-Sep-2026

09:13 AM

Q. ID: ITISKILL2329HT

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Answer Key

Duration: 30 Mins

Total Marks: 53

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1. What is the working principle of clutch?

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

Answer: D) Friction

2. Which system deals with alternator?

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

Answer: A) Charging system

3. Which part connects propeller shaft?

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

Answer: A) Gear box and final drive

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

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

Answer: A) HVAC system

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

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

Answer: B) Multi and double cone type

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

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

Answer: C) Vibration damper

7. Which is noise free clutch?

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

Answer: D) Diaphragm spring type clutch

8. 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

Answer: B) Herring bone gears

9. What is the advantage of dog clutch?

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

Answer: B) No possibility of slip

10. What is the function of steering system?

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

Answer: C) To guide the vehicle

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

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

Answer: C) By maintaining proper angle between tyres

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

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

Answer: C) Spur gear

13. What is the possible reason for gear slip?

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

Answer: A) Excessive end float of gear

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

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

Answer: B) All wheel drive line

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

- A) Quick change of gear obtained
- B) Wrong adjustment of gear will not affect the function

C) Smooth power transmission

D) Efficient lubrication possible

Answer: C) Smooth power transmission

16. 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

Answer: A) Storage system

17. 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) Sliding mesh gear box

C) Synchromesh gear box

D) Compound wheel mesh gear box

Answer: C) Synchromesh gear box

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

A) Engine

B) Chassis and frames

C) Control system

D) Power trains

Answer: B) Chassis and frames

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

A) Sliding mesh gear box

B) Synchromesh gear box

C) Constant mesh gear box

D) Auto synchromesh gear box

Answer: C) Constant mesh gear box

20. What causes noisy gear box in neutral position?

A) Synchronizer defective

B) Bearing worn out or dry

C) Synchronizer worn-out

D) Synchronizing unit stuck

Answer: B) Bearing worn out or dry

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

A) Spur gear

B) Bevel gear

C) Helical gear

D) Worm gear

Answer: A) Spur gear

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

A) Easy gear shifting when vehicle in motion

B) Provide noise in gear shifting

C) Prevent cushioning effect during gear shifting

D) Damage the gear teeth during gear change

Answer: A) Easy gear shifting when vehicle in motion

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

A) Reduce the wear on the clutch plate

B) Minimize the force to operate the clutch

C) Effective frictional force obtained

D) Easy repair and maintenance

Answer: B) Minimize the force to operate the clutch

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

A) 32 Degree

B) 13 Degree

C) 26 Degree

D) 18 Degree

Answer: C) 26 Degree

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

A) Pedal effort transmitted through fluid

B) Pedal effort transmitted through coupling

C) Pedal effort transmitted through spring

D) Pedal effort transmitted through linkage

Answer: C) Pedal effort transmitted through spring

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

A) 18 Degree

B) 20 Degree

C) 26 Degree

D) 22 Degree

Answer: D) 22 Degree

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

A) 15 -18 mm

B) 16 -20 mm

C) 6 -10 mm

D) 2 -4 mm

Answer: C) 6 -10 mm

28. What is the cause of hard gear shifting?

A) Synchronizing unit stuck

B) Fly wheel ring wornout

C) Bearing worn out

D) Synchronizing unit damaged

Answer: D) Synchronizing unit damaged

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

A) To reduce the fuel consumption

B) To enhance the fuel efficiency

C) To turn and control vehicle with less effort

D) To increase the engine power

Answer: C) To turn and control vehicle with less effort

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

A) Square cut seal

B) Teflow seal

C) Static seal

D) Dynamic seal

Answer: C) Static seal

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

A) 24 volts

B) 6 volts

C) 12 volts

D) Provide caution to the driver

Answer: A) 24 volts

32. What is the necessity of square cut seals?

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

Answer: A) Prevent the seal rolling in groove

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

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

Answer: C) 50 Degree

34. What will be the result of defective clutch?

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

Answer: C) Noise in gear shifting

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

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

Answer: D) Helical gear

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

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

Answer: A) Dial indicator

37. 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

Answer: C) Suspension system

38. How to rectify the hard gear shifting?

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

Answer: B) Adjust clutch pedal free play

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

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

Answer: B) Rack and Pinion

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

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

Answer: C) Non - positive seal

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

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

Answer: B) Universal joint

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

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

Answer: A) Cone clutch

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

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

Answer: A) Flexible discs

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

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

Answer: B) Reduction of gear box and body noises

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

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

Answer: B) Multi and Double cone

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

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

Answer: B) Axial load on the clutch

47. 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

Answer: D) Less maintenance and repair

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

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

Answer: B) Spur gear

49. What is the function of clutch?

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

Answer: D) Connect and disconnect power flow engine to gear box

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

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

Answer: B) Synchromesh gear box

51. Which system not connected with electrical system?

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

Answer: D) Transmission system

52. What is the role of ABS brakes?

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

Answer: A) Prevents skidding of vehicles

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

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

Answer: A) Synchronizing unit stuck