

ITI Quiz - 15-Oct-2026

09:20 AM

Q. ID: ITISKILL4907EX

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Answer Key

Duration: 30 Mins

Total Marks: 53

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

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

Answer: C) Vibration damper

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

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

Answer: A) Easy gear shifting when vehicle in motion

3. Which is noise free clutch?

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

Answer: C) Diaphragm spring type clutch

4. Which system deals with alternator?

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

Answer: B) Charging system

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

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

Answer: D) 50 Degree

6. 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

Answer: B) Bearing worn out or dry

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

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

Answer: D) Chassis and frames

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

- A) Pedal effort transmitted through fluid
- B) Pedal effort transmitted through spring

C) Pedal effort transmitted through linkage

D) Pedal effort transmitted through coupling

Answer: B) Pedal effort transmitted through spring

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

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

Answer: C) Minimize the force to operate the clutch

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

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

Answer: A) 22 Degree

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

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

Answer: C) HVAC system

12. 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

Answer: A) Multi and Double cone

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

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

Answer: D) Spur gear

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

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

Answer: A) Multi and double cone type

15. Which system not connected with electrical system?

- A) Suspension system
- B) Charging system

- C) Steering system D) Transmission system

Answer: D) Transmission system

16. What is the necessity of square cut seals?

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

Answer: A) Prevent the seal rolling in groove

17. 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

Answer: B) Spur gear

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

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

Answer: A) 26 Degree

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

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

Answer: A) Constant mesh gear box

20. What is the function of steering system?

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

Answer: C) To guide the vehicle

21. 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

Answer: A) Synchronizing unit damaged

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

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

Answer: A) Flexible discs

23. 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

Answer: C) Excessive end float of gear

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

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

Answer: C) Smooth power transmission

25. How to rectify the hard gear shifting?

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

Answer: B) Adjust clutch pedal free play

26. 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

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

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

Answer: A) Universal joint

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

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

Answer: A) Synchronizing unit stuck

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

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

Answer: D) Herring bone gears

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

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

Answer: C) Cone clutch

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

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

Answer: A) All wheel drive line

32. What is the role of ABS brakes?

- A) Provide positive braking B) Reduce the brake failures

- C) Prevents skidding of vehicles D) Increase frictional power

Answer: C) Prevents skidding of vehicles

33. What is the advantage of dog clutch?

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

Answer: A) No possibility of slip

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

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

Answer: B) Dial indicator

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

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

Answer: C) 6 -10 mm

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

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

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

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

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

Answer: A) Non - positive seal

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

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

Answer: D) Less maintenance and repair

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

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

Answer: C) Spur gear

40. 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

Answer: B) Helical gear

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

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

Answer: D) Axial load on the clutch

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

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

Answer: A) By maintaining proper angle between tyres

43. 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

Answer: B) Rack and Pinion

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

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

Answer: C) 24 volts

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

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

Answer: D) Suspension system

46. 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

Answer: C) Static seal

47. Which type of gear box eliminates the defect of gear wheels move on the shaft to mesh with each other?

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

Answer: A) Synchromesh gear box

48. 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

49. What is the function of clutch?

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

Answer: C) 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 part connects propeller shaft?

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

Answer: A) Gear box and final drive

52. What is the working principle of clutch?

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

Answer: A) Friction

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

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

Answer: B) Reduction of gear box and body noises