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Q. ID: ITISKILL49695Y

October 2026 Question Paper

Duration: 30 Mins **Total Marks: 38** **ID: ITISKILL49695Y**

Student Name: _____ Roll No: _____

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

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

2. Which system not connected with electrical system?

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

3. 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) Teflow seal
D) Static seal

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

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

5. 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) Porche type
D) Baulk ring type

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

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

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

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

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

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

9. What is the advantage of dog clutch?

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

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

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

11. 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) Smooth power transmission
D) Quick change of gear obtained

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

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

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

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

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

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

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

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

16. Which is noise free clutch?

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

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

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

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

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

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

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

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

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

21. What is the function of steering system?

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

22. 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

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

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

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

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

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

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

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

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

27. 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

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

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

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

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

30. Which system deals with alternator?

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

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

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

32. What is the role of ABS brakes?

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

33. 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

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

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

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

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

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

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

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

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

38. What is the working principle of clutch?

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