

July 2026

Govt iti (Men), kadri hills Mangalore

Answer Key

Duration: 30 Mins

Total Marks: 20

Q.ID: ITISKILL8603PN

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

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

Answer: A) Minimize the force to operate the clutch

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

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

Answer: D) 26 Degree

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

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

Answer: D) Non - positive seal

4. What is the function of clutch?

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

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

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

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

Answer: D) Helical gear

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

- | | |
|---------------------------|---------------------------------|
| 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

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

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

Answer: D) Rack and Pinion

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

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

Answer: A) 6 -10 mm

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

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

Answer: B) 24 volts

10. What is the working principle of clutch?

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

Answer: A) Friction

11. Which part connects propeller shaft?

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

Answer: B) Gear box and final drive

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

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

Answer: C) Constant mesh gear box

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

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

Answer: D) Flexible discs

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

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

Answer: D) Multi and Double cone

15. Which type of drive line used in high gears and high

speed applications?

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

Answer: C) All wheel drive line

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

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

Answer: D) Smooth power transmission

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

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

Answer: A) Spur gear

18. 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

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

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

Answer: B) Spur gear

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

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

Answer: A) Spur gear
