Program: BE Mechanical Engineering

Curriculum Scheme: Revised 2016

Examination: Final Year Semester VII

Course Code: MEDLO32 and Course Name: Automobile Engineering

Time: 1 hour Max. Marks: 50

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Note to the students:- All the Questions are compulsory and carry equal marks .

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| Q1. | By using synchronizing device, the two involved adjacent gears have their speeds |
| Option A: | increased. |
| Option B: | reduced |
| Option C: | equalized. |
| Option D: | unequaled. |
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| Q2. | The clutch plate is located in between pressure plate and |
| Option A: | Flywheel |
| Option B: | Steering column |
| Option C: | Crankshaft |
| Option D: | Propeller shaft |
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| Q3. | Centrifugal clutch does not require |
| Option A: | Clutch plate. |
| Option B: | Clutch pedal. |
| Option C: | Bell crank lever. |
| Option D: | Springs |
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| Q4. | Which is important advantage of synchromesh gear box over constant mesh gear box |
| Option A: | Synchromesh gearbox is less expensive. |
| Option B: | Double declutching is not required in synchromesh gearbox. |
| Option C: | Aesthetic look of synchromesh gearbox is better than constant mesh gear box |
| Option D: | Manufacturing of synchromesh gear box is easy and convenient. |
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| Q5. | Tractive force of vehicle can be defined as |
| Option A: | The torque at the driving wheels gives rise to a propulsive force between wheels and road |
| Option B: | Torque require to achieve maximum speed of vehicle. |
| Option C: | Torque requite to achieve average speed of vehicle. |
| Option D: | Torque require to achieve speed with fuel economy of vehicle. |
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| Q6. | When shifting into low, a gear on the transmission main shaft is moved in to mesh with the |
| Option A: | Counter shaft low gear |
| Option B: | Counter shaft idler |
| Option C: | Clutch gear |
| Option D: | Output gear |
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| Q7. | Which of the following layouts is not used in motor vehicles? |
| Option A: | Front engine front drive |
| Option B: | Front engine rear drive |
| Option C: | Rear engine front drive |
| Option D: | Rear engine rear drive |
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| Q8. | The most popular drive at the drive axle for the passenger car is |
| Option A: | Straight bevel gear |
| Option B: | Spiral bevel gear |
| Option C: | Worm gear drive |
| Option D: | Hypoid drive |
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| Q9. | In a vacuum type servo-assisted brake system, vacuum is available in …….. is made use of |
| Option A: | Exhaust manifold |
| Option B: | Combustion chamber |
| Option C: | Water jackets |
| Option D: | Inlet manifold |
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| Q10. | The axle shaft of a semi floating rear axle is subjected to |
| Option A: | Axial thrust only |
| Option B: | Axial thrust and bending stress |
| Option C: | Torsional stress only |
| Option D: | Bending, torsional stresses and end thrust |
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| Q11. | The colour of positive plate of a lead acid battery is |
| Option A: | brown |
| Option B: | grey |
| Option C: | white |
| Option D: | black |
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| Q12. | When the battery is half charged, the specific gravity of acid in battery is usually |
| Option A: | 0.74 |
| Option B: | 1.00 |
| Option C: | 1.12 |
| Option D: | 1.19 |
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| Q13. | The main task of a battery in automobiles is to |
| Option A: | supply electricity to the alternator |
| Option B: | Act as a reservoir or stabilizer of electricity |
| Option C: | Supply electricity to the vehicle's electrical system at all times while the engine is running |
| Option D: | Supply a large amount of power to turn the starter motor when the engine is being started |
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| Q14. | The function of a governor in automobiles is to |
| Option A: | Limit the power |
| Option B: | Limit the vehicle speed |
| Option C: | Maintain constant engine speed |
| Option D: | Maximize the fuel economy |
|  |  |
| Q15. | A maintenance free battery |
| Option A: | Has lead-antimony plate grid |
| Option B: | Has lead-calcium plate grid |
| Option C: | Does not contain acid |
| Option D: | Does not contain water |
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| Q16. | Which of the following is not part of the chassis |
| Option A: | Wheels |
| Option B: | Front axle |
| Option C: | Steering system |
| Option D: | Seats |
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| Q17. | In which wheel drive the engine location is at rear axle |
| Option A: | Front engine rear wheel drive |
| Option B: | Rear engine rear wheel drive |
| Option C: | Four wheel drive |
| Option D: | Front engine front wheel drive |
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| Q18. | The automobile chassis consist of the engine , frame, power train, wheels, steering and. |
| Option A: | The doors |
| Option B: | Luggage boot |
| Option C: | Wind shield |
| Option D: | Braking system |
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| Q19. | The frame provides support for the engine body, power train members and. |
| Option A: | Wheels |
| Option B: | Jack |
| Option C: | Road |
| Option D: | Suspension |
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| Q20. | The engine usually supported by the frame |
| Option A: | Four or five |
| Option B: | One or two |
| Option C: | Three or four |
| Option D: | One or two |
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| Q21. | The purpose of tyre plies to |
| Option A: | Decrease noise level |
| Option B: | Increase traction |
| Option C: | Increased tread life |
| Option D: | Provide softer ride |
|  |  |
| Q22. | The type of wheel which cannot be used with a tubeless tyre is |
| Option A: | Wire wheel |
| Option B: | Disc wheel |
| Option C: | Composite wheel |
| Option D: | Light alloy wheel |
|  |  |
| Q23. | Maximum room in the engine compartment is provided with |
| Option A: | Mac Pherson strut suspension |
| Option B: | Wishbone type suspension |
| Option C: | Rigid axle suspension |
| Option D: | Vertical guide suspension |
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| Q24. | The function of shackle with a leaf spring is to |
| Option A: | Allow pivoting of spring end |
| Option B: | Control sidesway |
| Option C: | Control rear torque |
| Option D: | Allow spring length to change |
|  |  |
| Q25. | The type of wheels preferred in sports car are |
| Option A: | Disc wheel |
| Option B: | Wire Wheel |
| Option C: | Magnesium alloy wheel |
| Option D: | Aluminium alloy wheel |