

These are sample MCQs to indicate pattern, may or may not appear in examination

University of Mumbai
Online Examination 2020

Program: BE Mechanical Engineering

Curriculum Scheme: Revised 2012

Examination: Final Year Semester VIII

Course Code: MEE8026 and Course Name: Automobile Engineering

Time: 1hour

Max. Marks: 50

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

- Q In double declutching, while shifting from lower gear to higher gear, driver has to accelerate the engine shaft for speed synchronization
- A synchronization
- B wait for speed synchronization
- C brake the engine shaft for speed synchronization
- D shift gears immediately
- Q All wheel drive uses how many number of differentials
- A 2
- B 3
- C 4
- D 1
- Q Final drive and differential is used to
- A increase the speed of wheels
- B avoid jamming of wheels
- C prevent clutch slip
- D Split the engine power across rear axles

Q With 100% efficiency of brakes, the vehicle will decelerate at
A 100 meters per sq. second
B 9.81 meters per sq. second
C 50 meters per sq. second
D 4.905 meters per sq. second

Q For both leading brake shoe configuration which of the following problem occurs

A poor braking effort during forward motion
B poor braking effort during cornering

C poor braking effort during reverse motion
D poor braking effort during parking

Q A traction control system (TCS) in automobiles control the
A vibrations on the steering wheel
B engine power during acceleration
C torque that is transmitted by the tyres to the road surface

D stopping distance in case of emergency

Q Cross section of front axles changes from I to circular at the end to take care of
A driving and braking torques
B weight of vehicle
C cornering forces
D side thrust

Q Shackle at the end of left spring takes care of
A weight of vehicle

B change in length of spring
C cornering forces
D side thrust

The main feature of Macpherson strut suspension is that

A The vertical size of the suspension can be made more compact
B Non vertical external forces are supported by the suspension arms
C The unsprung mass is lighter
D The assembly is slightly more complicated in design

Q Which of the following is disadvantage of radial tyre

A it generates more heat at high speed
B it has poor driving comfort
C it has poor lateral stability
D it has poor fuel economy

Q Which of the following is disadvantage of tubeless tyre

A Not suitable for spoke wheels
B poor air sealing qualities
C deflates slowly
D complicated assembly

Q The acid used in automobile battery is

A hydrochloric acid
B hydrofluoric acid
C nitric acid
D sulphuric acid

Q The capacity of battery is determined by

A number of plates per cell and number of cells

- B shape of plates
C size of plates
D number of separators
- Q Gear Reduction between starting motor and the flywheel is about
A 5
B 10
C 15
D 50
- Q The starting system includes
A battery, starter motor and ignition switch
B battery, distributor and ignition switch
C battery, starter motor and distributor
D distributor, starter motor and ignition switch
- Q An alternator frame is made up of
A cast iron
B brass
C aluminium
D copper
- Q In forward control chassis the engine is placed
A in front of driver seat
B below driver seat
C behind driver seat
D underfloor
- Q In modern passenger cars which of the following visibility is crucial
A Forward only
B Backward only
C Both forward and backward

D Downward visibility
Which of the following drag is maximum
for cars
A Profile drag
B Induced drag
C Cooling and ventilation drag
D Friction drag

I section members are typically preferred
in chassis of trucks because I section has
A Has good resistance to torsion
B Has good resistance to bending
C Has good resistance to side forces
D Has good resistance to yawing forces

Most of the modern cars uses _____ type
of frame construction
A integral frame
B ladder frame
C semi integral frame
D coupe

Estate cars are the one where
luggage compartment is separated from
passenger compartment
A driver compartment is separated from
passenger compartment
B luggage compartment is incorporated
C inside passenger compartment
D driver compartment is incorporated from
passenger compartment

Idle speed control system is used to
A Prevent Engine Stall
B Run Engine at high speed
C Run engine at optimum speed

- D Enhances intake efficiency
- Q Which device generates output signal when metal objects are either inside or entering into sensing area.
- A Capacitive Proximity
- B Magnetic Proximity
- C Inductive proximity
- D Parallel Proximity
- Q Oxygen sensors are typically used in which of the following system
- A Induction system
- B Fuel supply system
- C Exhaust system
- D Crankcase ventilation system