

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

**University of Mumbai**  
**Online Examination 2020**

Program: BE Automobile Engineering

Curriculum Scheme: Revised 2012

Examination: Fourth Year Semester VIII

Course Code: AEC803 and Course Name: Vehicle Maintenance

Time: 1hour

Max. Marks: 50

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

Q1.	During inspection of cylinder head if cracks are suspected, the area is checked using -
Option A:	Stud puller
Option B:	Thickness gauge
Option C:	Dye penetrant
Option D:	Filler gauge
Q2.	Which of the following means that people wait until equipment fails and repair it ?
Option A:	Preventive Maintenance
Option B:	Predictive Maintenance
Option C:	Breakdown maintenance
Option D:	Periodic maintenance
Q3.	In a normally operating engine, intake and exhaust valves are opened by a cam and closed by the _____ .
Option A:	Rocker arms or cam follower
Option B:	Valve spring
Option C:	Lifters (tappets)
Option D:	Valve guide and/or pushrod
Q4.	Which of the following is the most important property of the lubricant?
Option A:	Density
Option B:	Thermal conductivity
Option C:	Viscosity
Option D:	Melting point
Q5.	The following is considered as best antifreeze solution

Option A:	Ethylene glycol
Option B:	Distilled glycerin
Option C:	Methanol
Option D:	Denatured alcohol
Q6.	The acid used in automobile battery is?
Option A:	Hydrochloric acid
Option B:	Hydrofluoric acid
Option C:	Sulphuric acid
Option D:	Nitric acid
Q7.	The discharged lead acid battery has on its plates?
Option A:	Lead peroxide (PbO <sub>4</sub> )
Option B:	Spongy lead (Pb)
Option C:	Sulphuric acid (H <sub>2</sub> SO <sub>4</sub> )
Option D:	Lead sulphate (PbSO <sub>4</sub> )
Q8.	Frequent addition of water in battery is because of
Option A:	Overcharging
Option B:	Undercharging
Option C:	rusted terminals
Option D:	frayed cable
Q9.	Which of these has reduced the weight and expense of wire bundles in today's automobiles?
Option A:	Aluminum wiring
Option B:	Shared circuits
Option C:	High-voltage circuits
Option D:	Controller area networks
Q10.	Which of these digital multimeter (DMM) readings indicates a current flow of 3 amps in a circuit?
Option A:	3000 micro amps
Option B:	3.0 milliamps
Option C:	3000 milliamps
Option D:	0.3 amps
Q11.	All electrical _____ use the principle of electromagnetic induction to generate electrical power from mechanical power.
Option A:	Alternators
Option B:	Horns
Option C:	Wipers
Option D:	Amplifier
Q12.	When the battery is half (50%) charged the S.G. of acid in battery is
Option A:	0.74

Option B:	1
Option C:	1.19
Option D:	1.12
Q13.	PM motors used in power windows, mirrors, and seats can be reversed by _____.
Option A:	Sending current to a reversed field coil
Option B:	Reversing the polarity of the current to the motor
Option C:	Using a reverse relay circuit
Option D:	Using a relay and a two-way clutch
Q14.	A battery can be charged by
Option A:	Adding distilled water
Option B:	Adding sulphuric acid
Option C:	Applying voltage in the reverse direction to that of charging
Option D:	Applying voltage in the same direction to that of charging
Q15.	Diagnostic trouble code is displayed as a _____ character alphanumeric code.
Option A:	4
Option B:	3
Option C:	5
Option D:	6
Q16.	Leaf springs absorb shocks by _____.
Option A:	bending
Option B:	twisting
Option C:	compression
Option D:	tension
Q17.	Front disc and rear drum brakes have _____ in the line to the front brakes.
Option A:	Pressure differential valve
Option B:	metering valve
Option C:	combination valve
Option D:	Proportioning valve
Q18.	What type of sound will a defective wheel bearing make?
Option A:	whistle
Option B:	whine.
Option C:	growl.
Option D:	clunking sound.
Q19.	On-board diagnostics II (OBDII) data are retrieved by connecting a scan tool to the:
Option A:	Malfunction indicator lamp.
Option B:	Data link connector.
Option C:	Diagnostic trouble code.
Option D:	Power train control module.

Q20.	Which of these is not a type of clutch?
Option A:	a) Single disc
Option B:	b) Conical
Option C:	c) Centrifugal
Option D:	d) Cylindrical
Q21.	Which of the following condition is true for uniform wear theory?
Option A:	a. $p = \text{constant}$
Option B:	b. $p/r = \text{constant}$
Option C:	c. $p.r = \text{constant}$
Option D:	$p-r = \text{constant}$
Q22.	The following is an automatic clutch which is controlled by engine speed
Option A:	Cone clutch
Option B:	Centrifugal clutch
Option C:	fluid clutch
Option D:	Disc clutch
Q23.	The smallest gear inside the differential casing are known as
Option A:	Side gear
Option B:	Pinion gears
Option C:	Ring gear
Option D:	Sun gears
Q24.	Central portion of propeller shaft is made from
Option A:	Steel tube
Option B:	Cast iron rod
Option C:	Gun metal shaft
Option D:	Steel shaft
Q25.	What is the need of the universal joint?
Option A:	To bend sideways
Option B:	To change inclination
Option C:	To change length
Option D:	To transfer torque at an angle