

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: Final Year Semester VIII	
Course Code: AEC801 and Course Name: Autotronics	
Time: 1hour	Max. Marks: 50

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

Sr.No	Questions
1	The electrode used in battery must be
a	A semiconductor
b	An insulator
c	A good conductor of electricity
d	A bad conductor of electricity
2	A current produced in chemical cell is due to movement of
a	Positive and Negative Ions
b	Negative Ions only
c	Positive Ions only
d	Positive whole charges
3	In lead acid battery the water and electrolyte are mixed in ratio of
a	01:02
b	02:01
c	01:03
d	03:01
4	Fuel cells generate electricity by

a	Combustion
b	Fusion
c	Electrochemical reaction
d	Organic reaction
5	What do fuel cells emit?
a	Oxygen
b	Hydrogen
c	Nitrogen
d	Water
6	The amount of electricity a fuel cell system produces can be boosted by
a	Adding Oxygen
b	Adding Hydrogen
c	Adding cells
d	Adding Protons
7	The main purpose of battery in automobiles is to
a	Act as a reservoir or stabilizer of electricity
b	Supply electricity to the vehicle's electrical system at all times while the engine is running
c	Supply electricity to the alternator
d	Supply a large amount of power to turn the starter motor when the engine is being started
8	Which type of stator winding produces higher AC generator output at low speeds?
a	Wye
b	delta
c	trio
d	series
9	The device that prevents the engine from turning the armature of the starter motor is the
a	Overrunning clutch
b	Flywheel
c	Pole shoe
d	Pinion gear

10	What is the purpose of commutator
a	To prevent the field windings from contacting the armature.
b	To maintain constant electrical contact with the field windings.
c	To reverse current flow through the armature.
d	To maintain constant voltage
11	Integrated Starter and Alternator helps to
a	Increase the fuel efficiency
b	Increase the cooling efficiency
c	Increases the emission efficiency
d	Increases the braking efficiency
12	In integrated starter motor the electric motor is located at
a	Side of the engine
b	Side of the transmission
c	Side of the battery
d	In between the engine and the transmission
13	Which of these is not a torque term associated with starter motor
a	Engine Breakaway Torque
b	Engine Resisting Torque
c	Motor locked Torque
d	Cooling motor Torque
14	Dynamo is also known as
a	Direct current generator
b	Direct coil generator
c	Direct commutator
d	Direct voltage generator
15	The amount of voltage to initially get the spark to jump the spark plug gap is called the
a	Available voltage
b	Required voltage
c	Induced voltage
d	Varying voltage
16	The magnetic field collapses inside the ignition coil because of interruption of current to the

a	Primary winding
b	Secondary winding
c	Ignition control module
d	Electronic control module
17	Which of these is not a major component in distributor-less ignition system?
a	Ignition control unit-
b	Electronic control unit
c	Crankshaft position sensor
d	Reluctor
18	Piezo-resistivity is
a	a property of certain semiconductors in which resistivity varies with strain.
b	a resistance property of insulators
c	metal bonding pads
d	an Italian resistor
19	An optical crankshaft position sensor
a	senses crankshaft angular position
b	operates by alternately passing or stopping a beam of light from a source to an optical detector
c	operates in a pulsed mode
d	a line of constant magnetic flux
20	Electric windows uses
a	Solenoid actuators
b	Motorized Actuators
c	Rotary idle actuator
d	Thermal actuators
21	What is the use of automatic on-off headlamp control?
a	To turn on the headlamps when it gets dark enough to require light for driving
b	To on-off the headlight by driver
c	To on-off side lamp
d	To on-off the headlamp according to speed of vehicle
22	What should be the colour of tail light?
a	White
b	Amber

c	Blue
d	Red
23	If groups of wire are wrapped with electrical tape or flexible conduit, it is called as
a	Wire bunch
b	Circuit protector
c	Connection
d	Wiring harness
24	GNSS stands for
a	General Navigation Satellite System
b	General Navigation Satellite Service
c	Global Navigation Survey System
d	Global Navigation Satellite System
25	Telematics is defined as
a	Telephonic Automation
b	Telecommunications and Informatics,
c	Instrumentation
d	Data Recorder