

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 2016
Examination: Final Year Semester VII
Course Code: AEC703 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	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
2	What do fuel cells emit?
a	Oxygen
b	Hydrogen
c	Nitrogen
d	Water
3	Reserve capacity of battery is defined as:
a	The current which the battery can supply continuously for 30 seconds with minimum cell voltage 1.2 V
b	Lasting power of a battery on a small load

c	Rate of current for 20 minutes with a minimum cell voltage of 1.5 V
d	Time for which the battery can supply 25 A at 80 degree F with minimum cell voltage 1.75 V
4	The active materials on the negative and positive plates of a fully charged lead acid battery are
a	Lead and lead sulphate
b	Lead peroxide and lead
c	Lead sulphate and Lead peroxide
d	Lead and Lead Peroxide
5	The electrolyte used in Alkaline batteries is
a	Only H ₂ SO ₄
b	Dilute H ₂ SO ₄
c	KOH
d	Only water
6	The electrolyte in a fully charged battery will generally not freeze until the temperature drops to:
a	32 ° F
b	0°F
c	-20°F
d	-50°F
7	The slip rings and brushes carry current to the
a	Rotor windings
b	Stator windings
c	Field coil
d	Armature windings
8	Delta-type stators are used:
a	When high-voltage output is needed
b	When low-voltage output is needed
c	When high-current output is needed
d	When low-current output is needed
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	Bendix drive works on the principle of
a	Inertia
b	Magnetism
c	Induction
d	Alternating current
11	The solenoid assembly consists of
a	Pull in winding and hold in winding
b	Pull out winding and hold out winding
c	Rotating winding
d	Sliding winding
12	Idle speed control is used by some engine manufacturers to prevent engine _____ using engine management.
a	Stall
b	Vibration
c	Misfire
d	Noise
13	Which one of these becomes the hottest part in spark plug?
a	Metal shell
b	Ground electrode
c	Centre electrode
d	Insulator
14	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
15	What do we call the computer that controls distributorless ignition systems?

a	Master Timing Unit (MTU)
b	Engine Control Unit (ECU)
c	Mesa Controller (MC)
d	Plug Organizer (PO)
16	The resistance of a thermistor
a	varies inversely with temperature
b	varies directly with temperature
c	is always 100,000 ohms
d	varies directly with pressure
17	A potentiometer is
a	a variable-resistance circuit component
b	sometimes used to sense airflow
c	usable in a throttle angle sensor
d	used as resistor
18	The sensor located on the engine housing and is separated from the fly wheel by an air gap is
a	Crank shaft position sensor
b	Oxygen sensor
c	Knock sensor
d	Rain sensor
19	The main active component of most types of oxygen sensors is _____.
a	platinum electrodes
b	Piezzo element.
c	Zirconium dioxide (ZrO ₂).
d	nickel oxide thermistor
20	What is the advantage of sealed beam headlight?
a	Proper temperature control
b	Proper light intensity control
c	Dust & moisture protection for bulb
d	Safety from short circuit
21	What fuel gauge does?

a	Senses & indicates the fuel temperature
b	Senses & indicates the fuel level
c	Senses & indicates the fuel evaporated from fuel tank
d	Senses & indicates fuel quality
22	What is the significance of colour code?
a	It give value of the resistance
b	It gives dimensions of the wire
c	It gives voltage across the resistance
d	It gives the value of current passing through the wire
23	What should be the shape of the reflector used in the headlight?
a	Flat
b	Circular
c	Cubic
d	Parabolic
24	What are the sensors used in ABS?
a	Wheel speed sensor
b	MAP Sensor
c	Throttle sensor
d	Crank shaft position sensor
25	GNSS stands for
a	General Navigation Satellite System
b	General Navigation Satellite Service
c	Global Navigation Survey System
d	Global Navigation Satellite System

