Assignment Week 03

1) What does a rectifier do?

- Changes direct current into alternating current.
- Changes alternating current into direct current.
- Reduces voltage.
- None of these

Accepted Answers:
Changes alternating current into direct current.

2) What type of instrument is used for measuring very high values of resistance?

- Megohmmeter.
- Shunt-type ohmmeter.
- Multimeter.
- None of these

Accepted Answers:
Megohmmeter.

3 Electric circuits are protected from overheating by means of

- thermocouples.
- shunts.
- fuses.
- None of these

Accepted Answers:
fuses.

4) A circuit breaker is installed in an aircraft electrical system primarily to protect the

- circuit and should be located as close to the source as possible.
- circuit and should be located as close to the unit as possible.
- electrical unit in the circuit and should be located as close to the source as possible.
- none of these

Accepted Answers:
circuit and should be located as close to the source as possible.

5) In the American Wire Gauge (AWG) system of numbers used to designate electrical wire sizes, the number assigned to a size is related to its

- combined resistance and current-carrying capacity.
- current-carrying capacity.
- cross-sectional area.
- None of these

Accepted Answers:
cross-sectional area.

6) What is the color and orientation of the position lights for navigation on civil airplanes?

- Left side - green, right side - red, rear aft - white.
- Left side - red, right side - green, rear aft - white
- Left side - white, right side - green, rear aft - red.
- none of these

Accepted Answers:
Left side - red, right side - green, rear aft - white

7) How should a voltmeter be connected?

- In series with the source.
- In parallel with the load.
- In series with the load.
- none of these

Accepted Answers:
In parallel with the load.

8) Which of the following is most likely to cause thermal runaway in a nickel-cadmium battery?

- A high internal resistance condition.
- Combination of high battery temperature and overcharging
- Constant current charging of the battery to more than 100 percent of its capacity.
- None of these

Accepted Answers:
Combination of high battery temperature and overcharging

9) What is the advantage of a circuit breaker when compared to a fuse?

- Never needs replacing.
- Always eliminates the need of a switch.
- Resettable and reusable.
- None of these

Accepted Answers:
Resettable and reusable.

10) An aircraft electrical circuit control relay is

- an electronically operated switch.
- a device which converts electrical energy to kinetic energy.
- any conductor which receives electrical energy and passes it on with little or no resistance.
- None of these

Accepted Answers:
an electronically operated switch.