


SECTION A

Instruction: Choose the correct option from the list of questions with options lettered a – d

Duration: 2 hours

1. A current of 10A passes through a conductor for 10s. Calculate the charge flowing through the conductor (a) 100.0C (b) 10.0C (c) 1.0C (d) 0.1C
2. The symbol  represents (a) resistor (b) capacitor (c) diode (d) current
3. Three 3.0 Ohm resistors are connected in parallel. What is the equivalent resistance? (a) 9.0 Ohm (b) 3.0 Ohm (c) 1.0 Ohm (d) 0.33 Ohm (e) 6.0 Ohm
4. A car fuse marked 15A operates normally on a 12V battery. Calculate the resistance of the fuse wire (a) 0.8Ω (b) 1.3Ω (c) 3.0Ω (d) 27.0Ω
5. A lamp is rated 240V 60W. Calculate the resistance of its filament (a) 240Ω (b) 360Ω (c) 960Ω (d) 1440Ω
6. A fully charged 6V accumulator can give a current of 2A for 1800 minutes. Calculate the energy given out during its discharge (a) $1.2 \times 10^3 \text{J}$ (b) $1.3 \times 10^3 \text{J}$ (c) $0.5 \times 10^3 \text{J}$ (d) $2.5 \times 10^3 \text{J}$
7. A lamp 100W, 250V is lit for 5hours. If it operates normally and 1kWh of electrical energy costs 2naira, what is the cost of lighting the lamp? (a) 1naira (b) 2 naira (c) 5 naira (d) 10 naira
8. An electric blender converts electrical energy to (a) heat energy (b) light energy (c) mechanical energy (d) sound energy
9. _____ is used to detect faults in electric circuit (a) fuses tester (b) continuity tester (c) circuit tester (d) safety tester
10. A wire of length 5m and cross sectional area $4.0 \times 10^{-6} \text{m}^2$ has a resistance of 10Ω. Calculate its conductivity (a) $1.25 \times 10^7 \Omega^{-1} \text{m}^{-1}$ (b) $2.50 \times 10^7 \Omega^{-1} \text{m}^{-1}$ (c) $5.00 \times 10^7 \Omega^{-1} \text{m}^{-1}$ (d) $8.00 \times 10^7 \Omega^{-1} \text{m}^{-1}$
11. Hooke's law states that (a) $F \propto A$ (b) $F \propto e$ (c) $E \propto F$ (d) $E \propto A$
12. Young modulus is the ratio of _____ to _____ provided the load does not exceed the (a) strain, stress, breaking point (b) stress, strain, elastic limit (c) strain, stress, yield point (d) stress, strain, stress limit
13. The spiral spring of a spring balance is 25.0cm long when 5N hangs on it and 30.0cm when the weight is 10N. What is the length of the spring if the weight is 3N assuming Hooke's law is obeyed? (a) 15.0cm (b) 17.0cm (c) 20.0cm (d) 23.0cm
14. A spring is stretched 40mm by a force of 15N, what is the work done by the force? (a) 3J (b) 0.6J (c) 0.3J (d) 9J
15. A spring of force constant 1500Nm^{-1} is acted upon by a constant force of 75N. Calculate the potential energy stored in the spring (a) 1.9J (b) 3.2J (c) 3.8J (d) 5.0J
16. A spring 20cm long is stretched to 25cm by a load of 50N. What will be its length when stretched by 100N assuming that the elastic limit is not reached? (a) 30cm (b) 10cm (c) 35cm (d) 40cm
17. The rise or fall of a liquid in a narrow tube is due to (a) the friction between the walls of the tube and the liquid (b) the viscosity of the liquid (c) the osmotic pressure of the liquid (d) the surface tension of the liquid
18. The action of water rising up in the stem of a plant is due to (a) surface tension (b) osmosis (c) transpiration (d) capillarity
19. The nucleus of an atom consists of (a) proton and electron (b) neutron and electron (c) proton and neutron (d) none of the above

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