**PATFIN HIGH SCHOOL, AKESAN, LAGOS STATE**

**THIRD TERM EXAMINATION [2018/2019]**

**SUBJECT: BASIC TECHNOLOGY CLASS: J. S. S. 1**

**SECTION A OBJECTIVES**

**Instruction: answer all questions in this section. DURATION: 1 hour 30 mins**

1. In electric circuit, the flow of current is controlled by \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Diodes b) Capacitor c) Resistor d) Circuit board
3. Workshop safety rules says: Do not use \_\_\_\_\_\_\_\_\_\_\_\_tools.
4. Faulty b) Good c) Light d) Fine
5. \_\_\_\_\_\_\_\_\_\_\_\_\_ identifies a drawing.
6. Title block b) Vertical lines c) Cold block d) Pencil
7. Which of the following is NOT a woodwork tool?
8. Hammer b) Punches c) Saw d) Screw drivers
9. To restore a knocked car engine, the necessary maintenance required is \_\_\_\_\_\_\_\_\_.
10. Corrective b) Predictive c) Preventive d) Regular
11. Predictive maintenance involves \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
12. Dismantling of an equipment b) Changing of a damaged equipment c) Testing equipment with an instrument for possible future breakdown d) Changing a fuse of an equipment
13. A straight line is the shortest distance between \_\_\_\_\_\_\_\_\_\_\_\_ points.
14. 4 b) 3 c) 5 d) 2
15. \_\_\_\_\_\_\_\_\_\_\_\_\_ is used to draw circles and arcs.
16. Divider b) T-square c) Compass d) Protractor
17. The following can be used to carry out maintenance EXCEPT \_\_\_\_\_\_\_\_\_\_\_\_\_.
18. brush b) Electric motor c) Computer d) Screw driver
19. What is the power consumed by an electric iron which has a resistance of 5omhs and current of 4amp?
20. 80 watts b) 60 watts c) 40 watts d) 20 watts
21. The tool used for checking the squareness of edges is \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
22. Try square b) Vernier calliper c) Steel rule d) Outside calliper
23. Maintenance activities involve all these EXCECT
24. Oiling b) Washing c) Dusting d) Buying new tools
25. Preventive maintenance includes the following E XCEPT
26. Lubricants b) Inspection c) Repair d) Cleaning
27. Which of the following is NOT a metalwork marking out tool ?
28. Scriber b) Inside-calliper c) Dot punch d) Divider
29. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is measured in Amps.
30. Power b) Current c) Voltage d) Resistance
31. The type of hammer used by blacksmith is called \_\_\_\_\_\_\_\_\_\_\_\_ hammer.
32. Ball peen b) Cross peen c) Blocking head d) Claw
33. The following are driving tools EXCEPT \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
34. Hammer b) Screwdriver c) Allen key d) Hack saw
35. Which of the following is not used for marking and testing right angles surface?
36. Central square b) Try-square c) Sliding bevel d) Steel rule
37. The formula for finding voltage in an electrical circuit is \_\_\_\_\_\_\_\_\_\_\_\_\_.
38. V= I x R b) V= I/R c) V= R/I d) V= R + I
39. Which of these symbols represents an Inductor?
40. b) c) d)
41. Atom contains electron, proton and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
42. Boron b) Carbon c) Oxygen d) Neutron
43. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is used to cool the engines of cars when in motion.
44. Oil b) Water c) Paint d) Grease
45. \_\_\_\_\_\_\_\_\_\_\_ consist of molecules and atoms.
46. Electron b) Matter c) Charges d)Neuron
47. \_\_\_\_\_\_\_\_\_\_\_\_ is used to measure the current in a circuit.
48. Ammeter b) Wattmeter c) Ohmmeter d) Voltmeter
49. Which of the following is an electrical appliance?
50. Lamp b) Switch c) Lamp holder d) Blender

**SECTION B SUB-OBJECTIVE**

**FILL IN THE GAPS**

1. Electrical energy is measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. A platform on which workers perform their woodwork operation is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. What is the electrical instrument used in measuring voltage, current and resistance?
4. Holding tools are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. \_\_\_\_\_\_\_\_\_\_\_ maintenance is done to examine the likelihood of a breakdown.

**SECTION C THEORY**

**ANSWER NUMBER THREE AND ANY OTHER TWO**

1. a) Define Maintenance.
2. List and define the types of maintenance.

2 a) List three measuring instruments and state their uses

b) List four types of hammer

c) List the two types of screw drivers

d) List two types of saw.

1. a) Find the electrical energy in a circuit with 120w consumed at 5seconds.
2. Calculate the power consumed by an electric kettle connected to a 240volts power supply with 5amps.
3. What is the resistance of an appliance connected to 240volts supply with a current of 5amps?
4. State Ohm’s law.

4 a) List 4 Electrical Appliances.

b) List 4 Electrical Accessories.

c) Define Electric Current

d) List and explain the types of Electric Current.

5 a) List 5 components of an Electric circuit and show their symbols

b) Define Electric Circuit.

c) List the two types of Electric Circuit.