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

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

**SUBJECT: BASIC TECHNOLOGY CLASS: J. S. S. 2**

**SECTION A OBJECTIVES**

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

1. A regular polygon with seven sides is called \_\_\_\_\_\_\_\_\_\_\_.
2. Hexagon b) Heptagon c) Pentagon d) Decagon
3. Friction is the force which \_\_\_\_\_\_\_\_\_\_\_.
4. Opposes motion b) Causes movement c) Generates energy d) Increases motion
5. Which of these wood work machines make use of endless saw blade?
6. Band saw b) Surface planer c) Drill press d) Wood lathe
7. All the following can be used for cutting metal to size EXCEPT \_\_\_\_\_\_\_\_\_\_\_.
8. Chisel b) Power saw c) Drill d) Hacksaw
9. Machines used in cutting curves and straight lines on wood is called \_\_\_\_\_\_\_\_\_\_\_\_.
10. Thicknesser b) Band saw c) Lathe d) Circular saw
11. An 8-sided polygon is known as \_\_\_\_\_\_\_\_\_.
12. Decagon b) Nonagon c) Octagon d) Hexagon
13. Hacksaw is a tool used for cutting \_\_\_\_\_\_\_\_\_.
14. Wood b) Plastic c) Ceramic d) Metal
15. \_\_\_\_\_\_\_\_\_ is used for cutting arbitrary curves.
16. Chain saw b) Sander c) Jig saw d) Band saw
17. Holes can be produced in metals by these processes EXCEPT \_\_\_\_\_\_\_\_\_\_\_.
18. Punching b) Drilling c) Using brace d) Welding
19. The following are examples of quadrilateral EXCEPT
20. Rhombus b) Kite c) Hexagon d) Square
21. The area of a rectangle is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
22. ½ bh b) a2 c) ½ b d) w x h
23. \_\_\_\_\_\_\_\_ produces beautifully turned wooden articles from long pieces of wood.
24. Surface planer b) Thickness sander c) Band saw d) Wood lathe
25. \_\_\_\_\_\_\_\_\_ is an oily substance that makes surfaces smooth and slippery, thereby reducing friction.
26. Adhesive b) Abrasive c) Lubricant d) Oil
27. Friction opposes \_\_\_\_\_\_\_\_\_\_.
28. Motion b) Power c) Energy d) Nature
29. Which of the following is true of friction?
30. It support walking b) It is required for metal work operation c) It is required in the design of pulley system d) all of the above

**SECTION B SUB-OBJECTIVE**

**FILL IN THE GAPS**

1. \_\_\_\_\_\_\_\_\_\_\_\_ quadrilateral has equal length on all sides.
2. Portable power tools are \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Hacksaw is used to cut \_\_\_\_\_\_\_.
4. \_\_\_\_\_\_\_\_\_ causes wearing away of the soles of our shoes.
5. \_\_\_\_\_\_\_\_\_ saw is used to cut and shape light materials like plywood.

**SECTION C THEORY**

**ANSWER FOUR QUESTIONS ONLY QUESTIONS.**

1. a) Define Polygon.
2. Construct a regular Hexagon showing the steps.

2 a) What is Friction?

b) List types of friction.

c) List the causes of friction.

3 a) What is Quadrilateral?

b) List the types of quadrilateral.

c) Construct a regular quadrilateral.

1. State 2 uses of metals.
2. Differentiate the two types of metals.

4 List and draw the different types of polygon.

5 Explain the use of the following machines

a) Circular saw b) Drill press c) Electric sander d) Lathe

e) State 2 ways to care for machines.

6 a) State 3 advantages and 3 disadvantages of friction

b) State methods of reducing friction

c) State 3 effects of friction.

d) List the types of Lubricants.