

|  |  |
| --- | --- |
| **ANGELWINGS COMPREHENSIVE COLLEGE, MAROKO, PW, KUBWA, ABUJA** | |
| **THIRD TERM MIDTERM EXAMINATION 2024/2025 ACADEMIC SESSION** | |
| **SUBJECT: Basic Science and Technology** | **CLASS: YEAR ONE** |

1. A simple machine is best described as a tool that \_ (a) makes work easier (b) complicates tasks (c) is easily broken

2. Among the options, which one exemplifies a simple machine? (a) Car (b) Bicycle (c) Scissors

3. The primary function of scissors is to \_ (a) push objects (b) cut materials (c) pull items

4. Simple machines are utilized to (a) increase difficulty (b) simplify tasks (c) consume time unnecessarily

5. A significant advantage of employing a lever is that it (a) is prone to breaking (b) amplifies effort (c) aids in lifting substantial weights

6. A wheelbarrow facilitates work by (a) increasing weight (b) transporting heavy materials (c) being fragile

7. Which material is frequently employed in the construction of simple machines? (a) Paper (b) Wood (c) Fabric

8. Metals are frequently chosen for simple machine construction due to their (a) softness (b) strength and durability (c) considerable weight

9. For crafting a broom, what kind of material would be appropriate? (a) Rubber (b) Raffia (c) Paper

10. A cutlass assists us by (a) impeding object movement (b) simplifying the clearing or cutting of items (c) being susceptible to damage

11. The primary benefit of utilizing a wheel and axle is that it (a) increases object weight (b) complicates object movement (c) simplifies object displacement

12. Simple machines hold significance because they (a) are intricate devices (b) facilitate tasks (c) are exclusively for grown-ups

13. Which simple machine is commonly employed for severing objects? (a) Lever (b) Pulley (c) Cutlass (d) Screw

14. A screw simplifies work by (a) adding weight to objects (b) securing components together (c) being fragile

15. What material would be fitting for constructing a catapult? (a) Paper (b) Wood (c) Rubber

16. In everyday life, why do we employ simple machines? (a) To complicate chores (b) To streamline tasks (c) To squander time

17. What advantage does using a broom offer? (a) It increases the weight of items (b) It hinders object movement (c) It facilitates the movement of debris

18. Which simple machine assists in raising heavy items? (a) Lever (b) Pulley (c) Both a and b

19. Simple machines are constructed to be robust primarily so they can (a) be fragile (b) endure repeated usage (c) serve a single purpose

20. The significance of simple machines in our daily existence is that they (a) complicate tasks (b) simplify labor (c) are exclusively for mature individuals

Section B

1. Name three common types of simple machines.\_\_\_\_\_\_\_\_\_

2. Explain how a wedge functions to split objects.\_\_\_\_\_\_\_\_\_

3. What is the primary difference between a simple machine and a complex machine?\_\_\_\_\_\_\_\_\_

4. Provide an example of a simple machine used in your home and describe its function.\_\_\_\_\_\_\_\_\_

Section C

1. Discuss the historical significance of simple machines in human development and technological advancement.

2. Analyze how different simple machines can be combined to form more complex tools, providing examples.

3. Evaluate the role of simple machines in modern industrial and everyday applications, highlighting their continued relevance.