



PUPIL'S COMPLETE INDEX NUMBER

Province	District	Sector	School	Level	Pupil	Year
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PUPIL'S FULL NAME

Surname:

Other Names:

COMPREHENSIVE TEST FOR P6 STUDENTS IN ALL ADEPR CHURCH SCHOOLS FOR ACADEMIC YEAR 2023/2024

P6 SCIENCE AND ELEMENTARY TECHNOLOGY

DURATION: 2 HOURS **/ 100 MARKS**

Instructions:

1. Do not open and write anything on this question paper until you are told to do so.
2. This paper consists **40** questions and **8** pages. Before starting check if they are complete.
3. Attempt **all** questions in this paper.
4. Answer the questions in the space provided in this question paper.
5. Show you working steps clearly, marks will be given for showing steps.
6. You are allowed to use a mathematical set.
7. You are **not** allowed to use a calculator.



ATTEMPT ALL 40 QUESTIONS (100 MARKS)

1. a) What is a simple machine? (1mark)

.....
.....

b) State any two types of simple machine (1mark)

.....
.....

2. a) Briefly explain the term living things (1mark)

.....
.....

b) Name two groups of living things. (1mark)

.....
.....

3. Give two ways of maintaining mechanics and blacksmith tools (1mark)

.....
.....

4. State whether the following statements are **true or **false**. (2marks)**

- a) E-mail can be used to send text messages only.....
- b) E-mail is the quickest means of communication.....
- c) The received E-mail is stored in the outbox
- d) In order to use E-mail, receiver even though cannot be having an account can get message.....

5. Name one material that can be used to make (1mark)

- a) Toys
- b) Socks

6. a) Explain the term galvanization. (1mark)

.....
.....

b) Why should metallic tools be galvanized? (1mark)

.....
.....

c) Which metal is mainly used to galvanize other metals? (1mark)

.....
.....

7. Write two roles of carbon dioxide gas (1mark)

.....
.....



8. A body has a mass of 95g and a volume of 5cm³. Calculate

a) The density of the body

.....
.....(1mark)

b) State whether it is floating or sinking (1mark)

.....
.....

9. Given the following objects (**sunglasses, wooden door and glass in a window**)

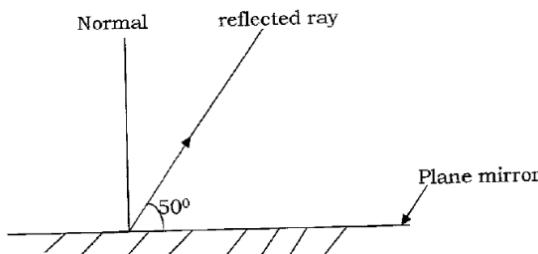
Which of them is;

a) Opaque? (1mark)

b) Transparent? (1mark)

c) Translucent? (1mark)

10. The diagram below shows a reflected ray of light and a plane mirror.



a) Draw an incident ray on the diagram above. (1mark)

b) What is the size of the angle of reflection? (1mark)

.....
.....

11. a) What is the role of search engines? (1mark)

.....
.....

b) Give any two examples of search engines (1mark)

.....
.....



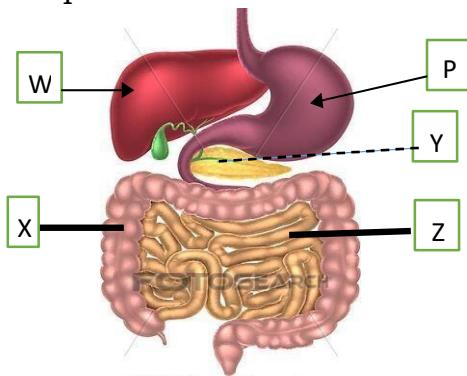
12. An earthworm is called an invertebrate because **(1mark)**

.....

13. Give any two functions of skeleton. **(1mark)**

.....

14. Study the diagram about the digestive system and answer the following questions.



a) Name the juice produced in: **(2marks)**

W

P

b) Identify parts labeled: **(2marks)**

Y

X

15. Give any one reason why air pollution is severe in cities like Pretoria.

..... **(1mark)**

16. a) Define the term 'recycling'

..... **(1mark)**

b) Name one material that can be recycled **(1mark)**

.....

17. Write two sources of artificial light **(1marks)**

.....

.....

18. Why is a moon not regarded as a natural source of light? **(1mark)**

.....

.....

19. Which form of energy is commonly used to: **(1marks)**

a) Make cars move?

.....

b) Enable human being to see?

.....



20. State any two properties of metals. **(1mark)**

.....
.....

21. Draw a simple electric circuit composed of two cells in series, a lamp and a switch and label each component. **(2 marks)**

22. a. How does fertilization differ from pollination? **(2marks)**

.....
.....
.....
.....

b. Where does fertilization take place in plants? **(1mark)**

.....

c) When fertilization has taken place, the ovules become.....and
the ovary develops into a **(1marks)**

23. Complete these sentences. **(1 marks)**

a) The area of a magnet where the magnetic force is the strongest is
called

b) An instrument which uses magnets to show directions is known as

.....

24. a) In human beings, what are the names of: **(3 marks)**

i) Male sex cells:

ii) Female sex cells:

b) The process by which an ovary releases an ovum after 28 days is
known as



25. Identify asexual reproduction methods for;

- a) Bananas: **(1mark)**
- b) Cassava: **(1mark)**
- c) Avocado: **(1mark)**

26. a) What does HIV stand for?

..... **(1marks)**

b) Outline the best way of avoiding sexually transmitted infections for P6 learners.

..... **(1marks)**

27. a) What is waste management? **(1marks)**

.....

b) With examples, give the difference between **bio-degradable wastes** and **non-biodegradable wastes**. **(2marks)**

i) Biodegradable

.....
.....

ii) Non-degradable

.....
.....

c) The golden rule of waste management is 3Rs. What does it stand for? **(3marks)**

i) ii) iii)

28. Give three examples of greenhouse gases **(3marks)**

.....

29. What do the following terms refer to as used in scratch? **(2 marks)**

a) Sprite:

.....
.....

b) Animation

.....
.....

30. a) Name two natural resources in the environment that enable green plants to make their own food. **(2 marks)**

.....
.....



b) What is the name of the process in (a) above? (1mark)

.....
.....

c) What gas is given off during this process ? (1mark)

.....
.....

31. Describe the characteristics of a solid in the term of mass and volume (1marks)

.....
.....

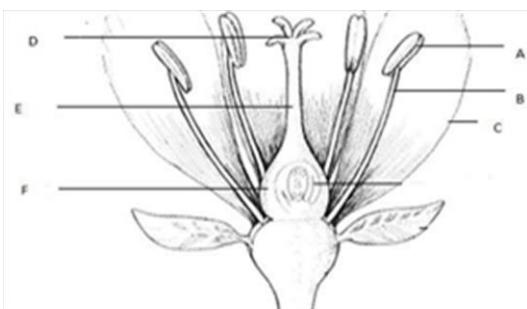
32. a) State any one material you use in the classroom to support your learning process (1 mark)

.....
.....

b) How do you take care of your learning materials? (1mark)

.....
.....

33. The diagram below is of a flower use it to answer the following questions



a. Name the part labeled by letter; (3mark)

A.....

B.....

C.....

D.....

E.....

F.....

b. What is the function of having parts labeled (3marks)

A.....

B.....

C.....

34. Match the following parts of the ear to their functions (4 marks)

Part of ear

- a) Cochlea
- b) Pinna
- c) Auditory nerve
- d) Auditory canal

function

- i) it carries message to the brain
- ii) it directs sound to the eardrum
- iii) it collects sound waves from the ear
- iv) it is the hearing organ of the ear.

35. Identify any two secondary sexual characteristics develop during puberty in boys and in girls. (2 marks)

a) In boys:

.....
.....

b) In girls:



36. Using an arrow join the following using the shortcut key with their uses **(5mark)**

- | | |
|-------------|----------|
| a) Ctrl + y | 1. Redo |
| b) Ctrl + z | 2. Undo |
| c) Ctrl + v | 3. Cut |
| d) Ctrl + x | 4. Paste |
| e) Ctrl + c | 5. Copy |

37. Where in the digestive system do the following take place? **(2marks)**

- a) Absorption of food nutrients:
b) Absorption of water:

38. a) What is family planning? **(1mark)**

.....
.....

c) Mention any two methods of avoiding unwanted pregnancy **(2marks)**

.....
.....

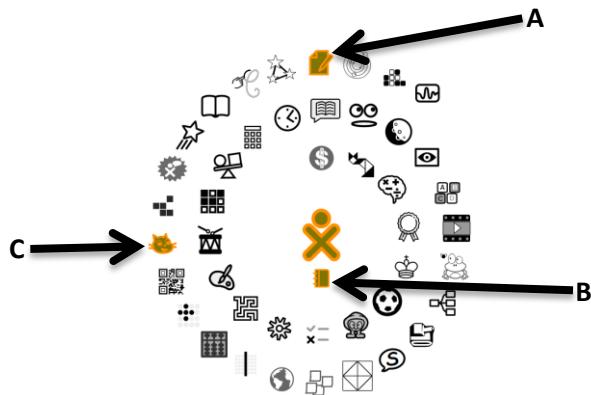
39. a) Name the three types of blood vessels in human circulatory system. **(3mark)**

.....
.....

b) How would you ensure that your blood is functioning properly? **(2mark)**

.....
.....

40. Study the diagram below and answer the questions that follows; **(5mark)**



a. Which Interface is shown on the figure?

.....

b. Name the icons labeled with letter

i. A

ii. B

iii. C

c. What is the role of icon labeled by the letter B?

.....

WE WISH YOU SUCCESS IN PRIMARY LEAVING EXAMINATIONS!!