

Science and Elementary
Technology
PSET
09/07/2024
09: 00 AM - 11: 00 AM



Pupil's complete index number

Province/ City	District	Sector	School	Level	Pupil	Year
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Pupil's names

Surname:.....

Other names:.....

NB: PUPIL'S INDEX NUMBER AND NAMES
MUST BE WRITTEN AS THEY APPEAR ON THE
REGISTRATION FORM

PRIMARY LEAVING NATIONAL EXAMINATIONS, 2023-2024
SCIENCE AND ELEMENTARY TECHNOLOGY

Duration: Two hours

Marks:

Instructions to candidates:

- 1) Do not open this question paper until you are told to do so.
- 2) This paper has **one section**.
- 3) All questions are compulsory and must be answered as instructed.
- 4) Read each question carefully before answering it.
- 5) Answer the questions in the space provided in this question paper.
- 6) You must use **a blue or black** pen and a pencil for drawing.

Attempt ALL questions.

- 1) Name any two agricultural cutting tools. **(2 marks)**

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- 2) Give any two advantages of using simple machines in our daily life. **(2 marks)**

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- 3) Explain two reasons why agricultural tools should be kept in a dry place.

(2 marks)

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- 4) Match the following tools with their uses:

(2 marks)

Tools

- a) Clamp
- b) Anvil
- c) File
- d) Bellows

Uses

- i) blow air into fire
- ii) sharpening edge of metals
- iii) hold metal while being cut
- iv) Where red hot metals are bent and shaped.

- 5) Classify the following masonry tools according to their usage:

(3 marks)

Spade, Plumb line, trowel, spirit level, steel float, mortar mixer

Usage	Tools
Smoothing tools	
Leveling tools	
Mixing tools	

- 6) Name any one material that is used to make toys and learning objects. **(1 mark)**

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7) Mention any two materials used while making a mat. (2 marks)

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8) State whether the following statements are **True** or **False**. (2 marks)

a) You can make a toy watch from a manila paper

b) One can maintain a doll by keeping it in a wet place.

9) As a learner who has been taught the importance of utility objects made of clay soil, suggest two benefits of such materials to people. (2 marks)

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10) Select the best answer: (1 mark)
Solid water (ice) changes into liquid by:

- a) wind
- b) heat
- c) cold
- d) rain

11) Complete each of the following sentences with an appropriate word from those given in the brackets.

(3 marks)

i) The air is a mixture of(liquids, gases)

ii) The main greenhouse gas is.....(oxygen, carbon dioxide)

iii) Air pollution may cause(tuberculosis, diabetes)

12) State whether the following statements are **True** or **False**. (2 marks)

a) Polio is a water bone disease.

b) Rain is the main source of water.

13) Why is water considered to be very important in our daily life?
Give two reasons.

(2 marks)

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14) Match the following Gases with their uses:

(2 marks)

Gas	Use
Argon	Combustion
Carbon dioxide	Making fertilizers
Oxygen	Cooling process
Nitrogen	Lights bulb

15) Select components of soil from the following:

(2 marks)

air, leaves, humus, manure, water

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16) Give two examples of recyclable wastes.

(2 marks)

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17) Complete the table below with types of waste and their examples.

(2 marks)

Types of waste	Example
.....	Maize remains
Electronic waste
.....	Broken bricks, sheet remains
Biomedical waste

18) Farmers are encouraged to make terraces and plant trees in order: (1 mark)

a) to make the country beautiful.

b) to develop an area.

c) to reduce carbon dioxide.

d) to prevent soil erosion.

19) State whether each of the following statements is **True** or **False**. (2 marks)

a) A search engine is a software system where learners can search any kind of information.

b) You can search for information without internet connection.

20) Explain the two advantages of using e-mail in real life. (2 marks)

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21) Match the following parts of XO Laptop with their use. (2 marks)

Part	Use
a) Camera	i) For displaying work.
b) Keyboard	ii) For switching on the computer.
c) Screen	iii) For taking pictures and videos.
d) Power button	iv) For typing letters and numbers.

22) Mention any two uses of a mobile phone. (2 marks)

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23) What are the steps followed in creating a folder? (2 marks)

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24) ICT contributes a lot to individual life as well as community lives.
Give any two positive contributions. (2 marks)

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25) Suggest one reason why farmers should feed well their chickens? (1 mark)

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26) Mention any two reasons why we keep cattle in our country. (2 marks)

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27) The Ministry of Health advises people to feed on at least one egg per week in order to fight against nutritional deficiency diseases.

Do you agree with this statement or not? Justify your answer.

(3 marks)




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28) Identify the class of each of the animals in the table below.

(3 marks)

Tilapia	Toad	Bat
		
.....

29) Give two examples of domestic animals which are vertebrates.

(2 marks)

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30) Our Government administered the plantation of trees in all areas of Rwanda.

Support this policy by giving two reasons.

(2 marks)

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31) Match the following elements:

(2 marks)

Parts	Function
Stamen	Female part of flower
Ovary	Produces ovules
Pedicel	Male part of flower
Carpel / pistil	Attaches flower to the branch

- 32) State any two uses of leaves to animals? (2 marks)
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.....
- 33) Choose the best answer. (2 marks)
After fertilization, the ovary develops into.....(seeds, fruits)
Asexual reproduction doesn't involve.....(ovary, gametes)
- 34) State any two importance of blood in the human body. (2 marks)
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- 35) Identify any two consequences of smoking. (2 marks)
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.....
- 36) How do we call a special stage in human growth/development at which the first ejaculation occurs? (1 mark)
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- 37) State whether the following statements are **True** or **False**. (2 marks)
i) The virus causing AIDS can be transmitted through sexual intercourse.....
ii) Mosquitoes transmit the virus that causes HIV/AIDS.....
- 38) Apart from tasting, mention other two functions of the tongue. (2 marks)
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.....
- 39) Complete the following sentences: (2 marks)
a) The longest bone of the human body is
b) The place where two bones meet is called a

40) Match the following elements with their functions. (3 marks)

Type of muscles

Function

- | | |
|------------------------|--------------------------|
| a) Voluntary muscles | i) Automatic movements |
| b) Cardiac muscles | ii) Controlled movements |
| c) Involuntary muscles | iii) Heart beats |

41) How is family planning useful to our country? (2 marks)

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42) Complete the sentences below with the correct words. (2 marks)

- a) The sacs that keep air are called.....
- b) The poison gas found in tobacco is.....

43) Establish the differences between white blood cells and red blood cells. (2 marks)

White blood cells	Red blood cells

44) Match the types of teeth with their functions. (2 marks)

Teeth

Functions

- | | |
|---------------|-------------------|
| a) Canines | i) Cutting food |
| b) Molars | ii) Chewing food |
| c) Incisors | iii) Tearing food |
| d) Pre-molars | iv) Grinding food |

45) Draw two magnets which prove that two opposite sides attract each other. (2 marks)

46) How does electricity help in the conservation of the environment? (2 marks)

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47) Match the following tools with their uses: (2 marks)

Tools	Use
a) Tester	i) cuts and holds wires
b) Rubber gloves	ii) prevents electric shock
c) Pliers	iii) checks the flow of electricity
d) Screw driver	iv) drives screws

48) Identify the states of matter from the following list: ice, liquid, water vapors, solid, stone, smoke, gas, juice. (3 marks)

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49) Mention any two sources of renewable energy. (2 marks)

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50) Describe any one property of light shown by the image of your face in a plane mirror. (1 mark)

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