

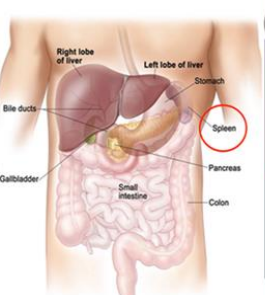
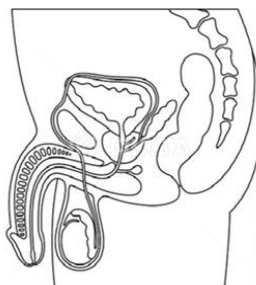
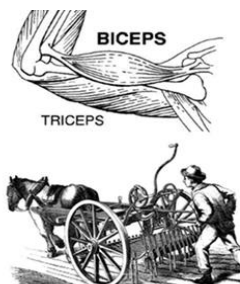


PACE - PREPARE A CHILD EXAMINATIONS BOARD

P.7 WAKE UP EXAMINATION SET

2025

INTEGRATED SCIENCE MARKING GUIDE



PACE
BEGINNING OF TERM ONE
EXAMS

2025 PACE Examinations Board 0754742152/0786616884

Nursery	at 900/=
P1-P3	at 1200/=
P4-P6	at 1500/=
P.7	at 2500/=

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SECTION A: 50 MARKS

1. Name any **one** group of crops.

❖ **Annual crops**

❖ **Perennial crops**

Reject; legumes, cereals, fruit crops, etc because they are types of crops.

2. State any **one** way in which community people can conserve wildlife.

❖ **Protecting wetlands(swamps)**

❖ **Gazetting forests**

❖ **Using hydroelectricity for cooking other than wood fuel**

❖ **Using biogas for cooking other than wood fuel**

❖ **Putting strict laws against deforestation**

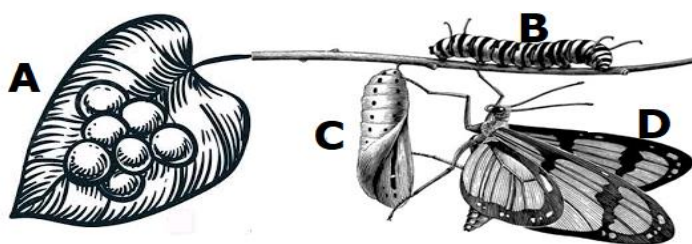
❖ **Putting strict laws against poaching**

❖ **Organizing education programs on the importance of wildlife**

❖ **Organizing educations programs on the effects of wildlife.**

3. Give any **one** component of seed structure.
 - ❖ **Seed testa**(coat)
 - ❖ **Radicle**
 - ❖ **Plumule**
 - ❖ **Endosperm**
 - ❖ **Cotyledon**
 - ❖ **Hilum scar**
4. Name any **one** agent of pollination.
 - ❖ **Insects (bees, moths, beetles, butterflies)**
 - ❖ **Birds (humming birds sunbirds)**
 - ❖ **Wind**
 - ❖ **Water**

The diagram below shows an organism in the classifications of lifecycle. Study and use it to answer questions **5** and **6**.



5. Name the organism shown in the diagram.
 - ❖ **Butterfly.**
6. State the type of life cycle to which the above organism belongs.
 - ❖ **Complete life cycle.**

Reason; One stage is totally different from the other in structure and appearance.
7. Mention any **one** way in which fish can be kept for a long time without going bad.
 - ❖ **By smoking**
 - ❖ **By sun drying**
 - ❖ **By freezing**
8. State any **one** living thing that causes rotting of cooked food.
 - ❖ **Bacteria**
 - ❖ **fungi.**
9. Name the metallic liquid used in thermometers to measure the human body temperature.
 - ❖ **Mercury.**
10. State any **one** effect of alcoholism to expectant mothers and their unborn babies.
 - ❖ **Premature births**
 - ❖ **Low birth weight**
 - ❖ **Still births**
11. How is the stomach important during the process of digestion?
 - ❖ **Churns food into (chyme)a semi-solid liquid.**
 - ❖ **Stomach walls produce gastric juice**
 - ❖ **Breaks down proteins**
 - ❖ **Stomach walls produce hydrochloric acid**
 - ❖ **Stores food for a short time**
 - ❖ **Stomach absorbs alcohol**

❖ **Stomach absorbs simple sugars**

❖ **Stomach absorbs common salts.**

12. State any **one** way in which teeth discolouration as a disorder can be prevented among P7 pupils.

❖ **Regular brushing of teeth**

❖ **Avoiding smoking**

❖ **Avoiding excessive alcoholism**

❖ **Regular dental flossing.**

13. Mention any **one** way in which air circulation in latrines can be improved.

❖ **Constructing latrines with a vent pipe**

❖ **Leaving pit hole open always.**

14. State any **one** function of a tourniquet in a first aid kit.

❖ **Used for controlling excessive (severe) bleeding from injuries.**

❖ **Used for occluding (obstruct/block) blood flow to a limb during surgical operations.**

Reject; for tying slightly above the bitten area in case of a snake bite.

15. Mention any **one** way in which burning as a chemical change is important in our daily life.

❖ **Helps in cooking food**

❖ **Helps in destroying breeding places such as rubbish for houseflies**

❖ **Burning of a candle helps in lighting houses**

❖ **Burning of coal helps to produce thermal electricity**

❖ **Burning of uranium helps to produce atomic (nuclear) electricity**

❖ **Burning of petroleum helps to run vehicles**

❖ **Burning of coal and natural gas helps to heat houses during winter**

❖ **Burning helps to reduce the volume of wastes in the environment**

❖ **Burning of coal and natural gas helps to extract minerals like iron and steel from their ores**

❖ **Burning helps in the process of distillation.**

16. State any **one** reason why one would prefer piggy to cattle keeping.

❖ **Pigs grow and mature faster than cattle.**

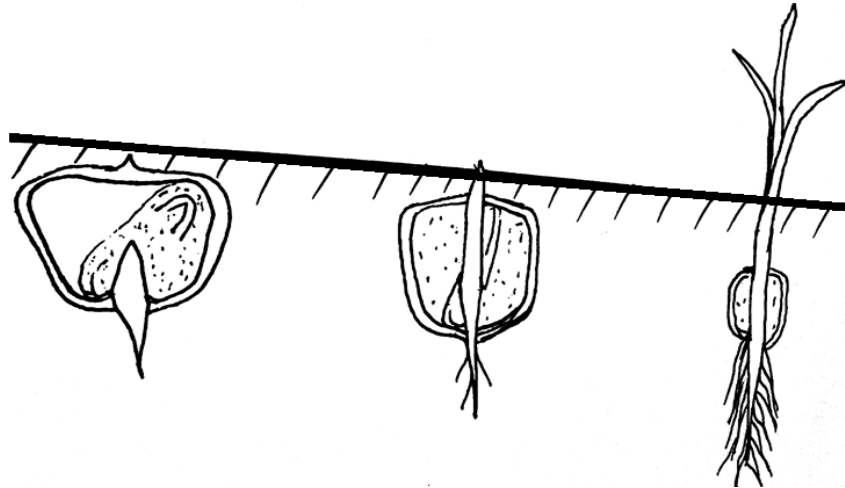
❖ **Pigs multiply faster than cattle**

❖ **Pigs take less space than cattle**

❖ **Pigs need less feeds than cattle**

❖ **Pigs need less care than cattle.**

The diagram below shows a crop commonly grown in the community. Study and use it to answer questions **17** and **18**.

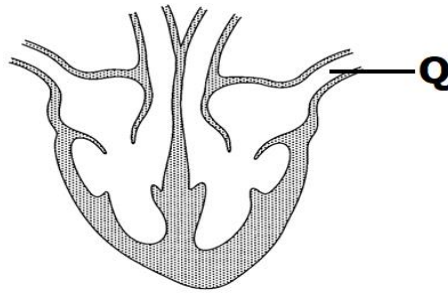


17. Name the type of germination shown in the diagram above.
 - ❖ **Hypogeal germination.**
18. Identify the group of flowering plants to which the above crop belongs.
 - ❖ **Monocots/Monocotyledonous plants.**
19. Mention any **one** method of harvesting honey from bee hives.
 - ❖ **Traditional methods**
 - ❖ **Modern methods.**
20. State any **one** living thing that is a component of soil.
 - ❖ **Fungi**
 - ❖ **Bacteria**

Reject; Earthworms because they are not universally present in every soil sample.
21. Apart from removing hiding places for crop pests, state any **one** other advantage of pruning crops.
 - ❖ **Reduces weight of the crops**
 - ❖ **Increases crop yields by allowing more light to reach fruiting branches.**
 - ❖ **Reduces the spread of crop diseases by removing diseased branches.**
 - ❖ **Makes harvesting easier by allowing easy access to fruits**
22. Mention any **one** way a school health committee can identify an immunized child in a home.
 - ❖ **By checking on Child Health Card (CHC)**
 - ❖ **By looking at an immunization scar on the right upper arm.**
23. Name any **one** traditional bee hive commonly used by bee keepers.
 - ❖ **Kigezi bee hive**
 - ❖ **Dug out log bee hive**
 - ❖ **Skep bee hive**
 - ❖ **Tin bee hive.**
24. State any **one** method of storing sound produced by David Iyalo singing.
 - ❖ **Mechanical (physical) method**
 - ❖ **Magnetic method**
 - ❖ **Electromagnetic method**

25. State any **one** poultry managemental practice carried out on a farm.
- ❖ **Debeaking**
 - ❖ **Feeding poultry**
 - ❖ **Housing poultry**
 - ❖ **Vaccinating poultry**
 - ❖ **Cleaning poultry houses**
 - ❖ **Incubating eggs**
 - ❖ **Brooding chicks**
 - ❖ **Egg collection.**
26. Name any **one** special organ used by insects for sensing sound vibrations.
- ❖ **Feelers/antennae**
27. State **one** activity done to show that air exerts pressure and occupies space.
- ❖ **Filling air in balloons**
 - ❖ **Inflating bicycle tyres**
 - ❖ **Inflating car tyres**
 - ❖ **Inflating balls**
 - ❖ **Inflating aeroplane tyres**
 - ❖ **Inflating motorcycle tyres**
28. State any **one** body change in adolescents that shows a grown up man.
- ❖ **Growth of hair under armpits**
 - ❖ **Development of beards**
 - ❖ **Growth of pubic hair**
 - ❖ **Sweat glands become more active**
29. Apart from soaking, write any other step in the process of washing clothes.
- ❖ **Sorting**
 - ❖ **Washing**
 - ❖ **Rinsing**
 - ❖ **Ironing**
 - ❖ **Wringing**
 - ❖ **Drying**
- Reject; soaking.
30. State any **one** way in which you can prevent poisoning by chemicals at home.
- ❖ **Keeping chemicals away from food**
 - ❖ **Keeping chemicals away from reach of children**
 - ❖ **Keeping chemicals away from drinking water**
 - ❖ **Keeping chemicals in their original containers for easy identification.**
 - ❖ **Keeping chemicals away from cooking utensils to prevent food contamination.**
 - ❖ **Wearing gloves, masks and eye glasses when handling chemicals.**
 - ❖ **Label all chemicals stored in different bottles.**
 - ❖ **Obey to instructions on chemicals**
31. Name the administration form of Pfizer vaccine among people.
- ❖ **Injection form.**

The diagram below shows a certain human body organ. Study and use it to answer questions **32** and **33**.



32. State the function of the above organ in the human body.
➤ **To pump blood to all body parts.**
33. Identify the pulmonary vein using letter **Q** on the diagram above.
34. Write down any **one** method of making compost manure.

❖ **Pit method**

❖ **Heap method**
35. Give any **one** way in which mulching is important in a coffee plantation.

❖ **Improves soil fertility**

❖ **Keeps moisture in the soil**

❖ **Controls soil erosion**

❖ **Controls weeds**
36. State any **one** method of finding the volume of regular objects.

❖ **Length x Width x Height**

❖ **Displacement method.**

The diagram below shows an item used to manage weather. Study and use it to answer questions **37** and **38**.



37. Name the item shown in the diagram above.
- ❖ **Umbrella**
38. State any **one** weather condition commonly managed by people using the above item.
- ❖ **Sunny weather** ❖ **Rainy weather**
39. Give any **one** characteristic of ticks that makes them suit for spreading relapsing fever.
- ❖ **They feed on blood**
- ❖ **Germs do not die in their abdomen,**
- ❖ **Ticks have sharp mouthparts (hypostome) for biting the skin**
40. State any **one** way in which rainfall promotes brick making.
- ❖ **It provides rainwater for mixing soil to make bricks.**

SECTION B: 60 MARKS

Questions **41** to **55** carry four marks each

41. (a) Write any **two** effects of smoking to a family.
- ❖ **Poverty**
 - ❖ **Child neglect**
 - ❖ **Spouse neglect**
 - ❖ **family neglect**
 - ❖ **Copying smoking habits by children**
 - ❖ **Increased risk of fire outbreaks.**
- Reject; causes lung cancer to family members, self neglect
- (b) State any **two** dangerous chemicals found in tobacco as a drug.
- ❖ **Nicotine**
 - ❖ **Tar**
 - ❖ **Carbon monoxide**
 - ❖ **Irritants**
 - ❖ **Carcinogen**
42. Bilharzia is very common among people in areas with poor sanitation.
- (a) Name the germ that causes bilharzia disease among people.
- **Bilharzia worm, bilharzia fluke, Schistosomes,**
- (b) Explain why bilharzia is common in areas with poor sanitation.
- **Poor sanitation contaminates water sources with bilharzia larvae that penetrate human skin and cause bilharzia.**
- **Poor sanitation promotes reproduction of fresh water snails that are bilharzia vectors.**
- (c) Give any **one** way in which bilharzia can be prevented.
- ❖ **Use molluscicides to kill all fresh water snails**
 - ❖ **Avoid swimming in contaminated water**
 - ❖ **Use safe water for drinking**
 - ❖ **Proper disposal of faeces other than water sources**
 - ❖ **Wear gum boots when walking in areas with contaminated water**
 - ❖ **Organizing education programs on the prevention of bilharzia**
 - ❖ **Avoid washing clothes using contaminated water.**
43. The Human body works in very many different ways for perfect efficiency.
- (a) Give any **two** ways in which the body works.
- ❖ **By using food and oxygen to get energy.**
 - ❖ **By removing waste products.**
 - ❖ **By inhaling oxygen and exhaling carbon dioxide.**
 - ❖ **By protecting internal organs from external damage.**
 - ❖ **By producing hormones that regulate bodily activities.**
 - ❖ **By providing structural support to internal organs.**
 - ❖ **By defending against germs and infections.**
 - ❖ **By breaking food in simple soluble substances that can be absorbed easily.**
 - ❖ **By carrying food and oxygen to different parts of the body.**

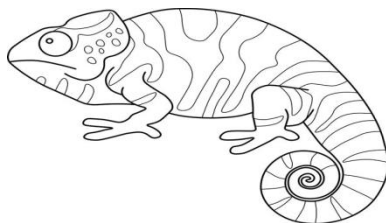
(b) Give the meaning of the term respiration.

❖ **Respiration is the oxidation of food with oxygen to produce energy in the body cells.**

(c) Mention the body organ that contains air sacs for exchange of gases

❖ **Lungs**

44. The diagram below shows an animal. Study and use it to answer the questions that follow.



(a) To which group of vertebrates does the above animal belong?

❖ **Reptiles**

(b) Give any **one** way in which the above animal protects itself.

❖ **By changing colours/ camouflaging.**

(c) Give any **two** characteristics of the group of vertebrates you have named in 44 (a) above.

❖ **They have scales**

❖ **They undergo internal fertilization**

❖ **They undergo moulting**

❖ **They move by slithering** (crawling)

❖ **They reproduce by laying eggs.**

reject they have a backbone,

45. (a) Write down any **two** reasons why people eat food

❖ **To give us energy**

❖ **To enable us grow**

❖ **To protect our body from deficiency diseases**

❖ **To repair worn out tissues**

❖ **To replace worn out cells**

Reject it is a habit, for hospitality, to be happy, to cure hunger.

Reason they are social reasons and not scientific reasons.

(b) State the cause of marasmus among children.

❖ **Lack of all food values in the body.**

Reject; lack of carbohydrates in the body

(c) Why is it important for people to eat food rich in proteins?

❖ **To enable us grow** (to build the body)

❖ **To protect our body from kwashiorkor** (deficiency diseases)

❖ **To repair worn out tissues**

❖ **To replace worn out cells.**

46. (a) Give any **two** forms of energy.

- ❖ **Mechanical energy**
- ❖ **Heat energy**
- ❖ **Light energy**
- ❖ **Magnetic energy**
- ❖ **Electrical energy**

- ❖ **nuclear energy**
- ❖ **chemical energy**
- ❖ **thermal energy**
- ❖ **sound energy**

reject potential and kinetic energy.

(b) State any **two** characteristics of forms of energy.

- ❖ **They make work possible** (enable people to do work)
- ❖ **They can be changed to other forms of energy.**

47. (a) Give any **two** examples of harmful materials on the soil.

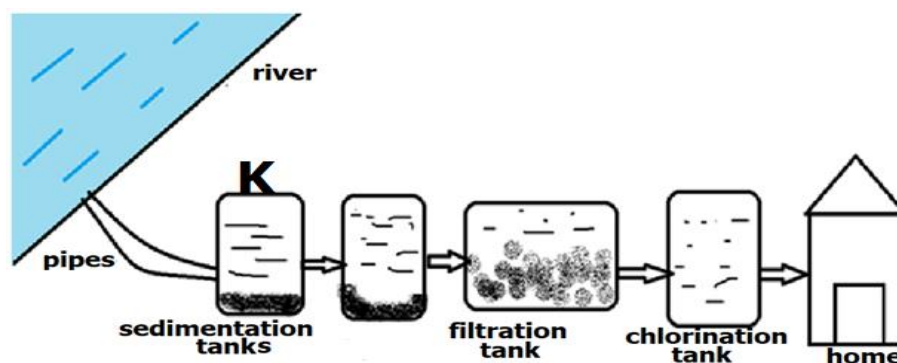
- ❖ **Agrochemicals**
- ❖ **Polythene bags**
- ❖ **Metals**
- ❖ **Used oil**
- ❖ **Rubber**

- ❖ **Plastics**
- ❖ **Pesticides**
- ❖ **Insecticides**
- ❖ **Herbicides**

(b) State any **two** effects of harmful materials on the soil.

- ❖ **They destroy soil aeration**
- ❖ **They reduce soil fertility**
- ❖ **They kill important soil organisms that improve soil fertility**
- ❖ **They prevent water and air from entering into the soil.**

48. The diagram below shows steps in preparing clean water. Study and use it to answer the questions that follow.



(a) Use letter **K** to mark the tank where decantation takes place.

(b) Identify the process that carries out the following activities;

(i) Killing germs in water

Chlorination

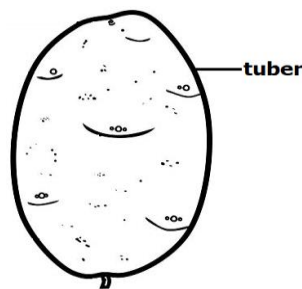
(ii) Removing dirt and impurities in water.

Filtration

(iii) Allowing solid particles to settle at the bottom

Sedimentation

49. The diagram below shows a certain tuber. Study and use it to answer the questions that follow.



- (a) Name the common tuber shown in the diagram.
- ❖ **Irish potato**
- (b) Give **two** characteristics that make the above tuber to be a stem tuber.
- ❖ **It has nodes**
 - ❖ **It has scale leaves**
 - ❖ **It has eye buds (axillary buds)**
- (c) How is the above tuber propagated?
- ❖ **By planting stem tuber/By means of stem tuber.**
50. (a) Name the type of resource to which the following resources belong;
- (i) Wind: **Renewable resource.**
 - (ii) Petroleum: **Nonrenewable resource.**
- (b) State any **two** ways of conserving plants in the environment.
- ❖ **Putting strict laws against deforestation**
 - ❖ **Cutting one and planting three trees.**
 - ❖ **Carrying out afforestation and re-afforestation**
 - ❖ **Organizing education programs on the importance of plants in the environment.**
51. (a) What is meant by the term seed dispersal?
- ❖ **Seed dispersal is the process by which seeds are spread away from the parent plant to other new areas Or**
 - ❖ **Scattering of seeds from the parent plant to other new areas.**
- (b) Write down any **two** importance of seed dispersal in the environment.
- ❖ **Helps plants to colonize new areas**
 - ❖ **Helps to prevent overcrowding of plants in an area.**
 - ❖ **Helps to reduce competition between plants in an area.**
 - ❖ **Helps to increase chances of cross pollination in plants.**
- (c) State any **one** agent of seed dispersal.
- ❖ **Water**
 - ❖ **Animals**
 - ❖ **Wind**

52. (a) Name any **two** farm practices that harm cattle.

❖ **Castration**

❖ **Dehorning**

❖ **tail bobbing**

❖ **branding**

❖ **ear notching**

❖ **ear tagging**

Reject beating animals

(b) State any **two** cattle pests that can be controlled by spraying acaricides.

❖ **Ticks**

❖ **Tsetse flies**

❖ **Lice**

❖ **Ked flies**

Reject liver flukes, tape worms

53. (a) Give the meaning of the term air.

❖ **Air is the mixture (combination) of gases**

(b) You are provided with the following materials; two identical balloons and a scale balance.

Describe an experiment to show that air has weight. *(03 marks)*

❖ **Inflate one balloon to a reasonable size and leave the other balloon deflated.**

❖ **Weigh both balloons by placing them on the scale balance and record the reading.**

❖ **The inflated balloon will weigh more than the deflated balloon, showing that air has weight.**

54. The table below shows latrines, toilets and what they are. Study and fill in the missing spaces provided.

latrines and toilets	what it is
flush toilet	A toilet that uses water and connected to a septic tank
Conventional latrine	A latrine without ventilation and flushing mechanisms
enviro loo	A waterless latrine that decomposes human wastes from toilets
potty	A container young children use for defecation and urination
ECOSAN	An ecological latrine that separates and recycles human wastes

55. (a) Write down any **two** examples of exotic breeds of pigs kept by Ugandan farmers.

❖ **Poland China pigs**

❖ **Large white pigs**

❖ **Middle white pigs**

❖ **Landrace pigs**

❖ **Duroc pigs.**

- ❖ **To make boar produce improved quality meat**
- ❖ **To make boars calm**
- ❖ **To make boars easier to handle**
- ❖ **To prevent unwanted breeding** (inbreeding) **on a farm.**

Reject it makes boars grow faster.

- ❖ **Helps to provide oxygen to pigs for respiration.**
- ❖ **Helps to provide pigs with food.**

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