



KAMPALA CAPITAL CITY AUTHORITY

DIRECTORATE OF EDUCATION AND SOCIAL SERVICES

PRIMARY SEVEN MOCK EXAMINATIONS 2022

INTEGRATED SCIENCE

TIME ALLOWED: 2 HOURS 15 MINUTES

INDEX NO.	EMIS No.	Personal No.

CANDIDATE'S NAME: MARKING GUIDE

CANDIDATE'S SIGNATURE:

EMIS No:

DIVISION NAME:

Read the following instructions carefully.

1. This paper is made up of two sections:
A and B
2. Section **A** has **40** questions (**40** marks)
3. Section **B** has **15** questions (**60** marks)
4. Answer ALL questions in both sections **A** and **B**
5. ALL answers **MUST** be written in Blue or Black
Ball - point pen or ink
6. Un-necessary alteration of work may lead to
loss of marks.
7. All diagrams **MUST** be drawn in pencils.
8. Any handwriting that cannot be easily read may
lead to loss of marks.
9. Do **not** fill any thing in the boxes shown

"For Examiner's use only".

FOR EXAMINERS' USE ONLY

QN. NO.	MARKS	SIGN
1 - 10		
11 - 20		
21 - 40		
41 - 45		
46 - 50		
51 - 55		
TOTAL		

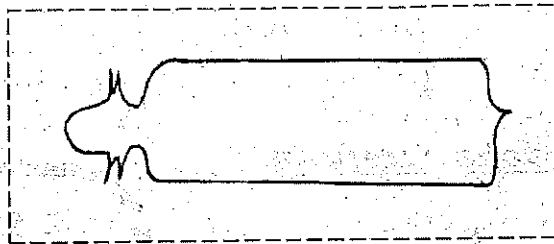
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TURN OVER

SECTION A

1. Give any **one** natural source of light.
lightning//sun//glow worm//fire flies//erupting volcano//
2. Why does clay soil retain more water than loam soil?
Clay soil has smaller air spaces than loam soil // compact soil particles // small particles
3. Name the group of mammals that has well developed incisor teeth.
gnawing mammals (Rodents)
4. Which immovable joints are found in the skull?
Suture

The diagram below shows a shape of a type of cattle. Use it to answer questions that follow.



5. Name the type of cattle with the body shape above.
beef cattle
6. Which main product do farmers get from the above named type of cattle?
beef//meat
7. Give any **one** example of a chemical change which does not require heat to take place.
rusting//pollution//decomposition // fermentation
8. State any **one** activity that one can do to promote personal hygiene.
bathing//brushing teeth//flossing teeth//washing clothes//combing hair
cutting fingernails//rinsing the mouth//shaving pubic hair
9. Name the energy resource obtained from fast flowing water.
HEP//hydro electricity//hydro electric power
10. Which disease is spread by ticks to human beings?
Lime disease//Relapsing fever//Typhus fever
11. State any **one** disadvantage of buying drugs from shops.
Drugs may be fake//expired//spoilt//not prescribed
12. How are the molar teeth suitable for their function?
Have cusps//ridges//rough broad surface for grinding/chewing
crushing food
13. Why is it not advisable to clean the ear using a sharp object?
Sharp objects can damage the ear drum
(Pierce)

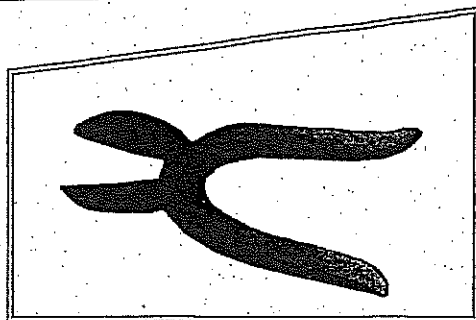
14. How do plants benefit from soil?

Plants get nutrients // water from soil // Plants get anchorage

15. Which deficiency disease causes swelling of the neck?

Goitre

The diagram below shows a garden tool. Study it and answer questions 16 and 17.



16. Name the garden tool above.

Secateurs // pruner // pruning shears

17. How does the above garden tool reduce the rate of transpiration in plants?

It reduces excess leaves and branches

18. Give any **one** way of conserving plants in the environment.

Afforestation // rural electrification // use of charcoal saving stoves

19. Name any **one** arthropod that gives birth to its young ones alive.

Scorpion

20. How does the burning of rubbish control the spread of diarrhoeal diseases?

It destroys the breeding places for vectors

21. Which childhood immunisable disease is prevented by injection at 6 weeks, 10 weeks and 14 weeks?

Hepatitis B // Haemophilus influenzae type B

Diphtheria // Pertussis // Tetanus // Polio/poliomyelitis

22. State the importance of air sacs in the lungs.

Allows gaseous exchange

23. How is a cotton seed adapted to dispersal by wind?

It has a tuft of hair // hairy structures // small and light

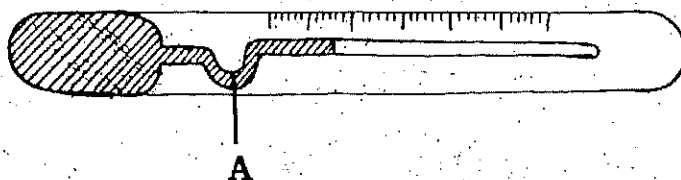
24. State any **one** similarity in function between the vena cava and the pulmonary vein.

Both carry blood towards the heart

25. Give any **one** way in which drinking clean boiled water is important to the body.

It controls the spread of water borne / diarrhoeal disease

The diagram below shows a medical instrument. Study it and use it to answer questions 26 and 27.



26. Name the medical tool shown above.

Clinical thermometer / Doctor's thermometer

27. Why does the nurse shake the medical tool above before using it on a patient?

To push mercury back to the bulb / To reset it

28. In which kind of weather do farmers carry out winnowing?

Windy weather

29. How can the effects of contraction and expansion be controlled when installing electricity in an area?

Leaving them loosely fixed

30. Give any **one** reason why a casualty should be put in a recovery position?

For quick recovery / Prevent further injuries / Save life

31. Apart from removing poisonous materials from the body, give any other importance of excretion.

To regulate the water / salt / sugar level / To balance water levels / blood balance sugar levels

32. State any **one** reason why a mushroom is not regarded as a plant.

It has no chlorophyll / It does not make its own food

33. Give any **one** reason why a seed may fail to germinate when provided with all necessary conditions.

Due to cracks / Pests / diseases / too old seeds

34. Why do objects weigh less in water?

Due to upthrust force

35. Give any **one** way in which the poles of an electro magnet can be determined.

Using the right hand grip rule / Direction of flow of current

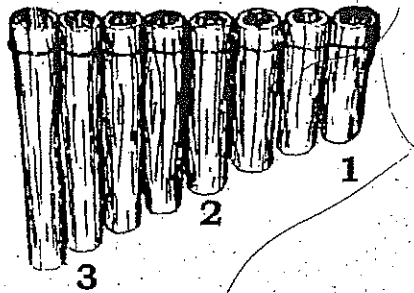
36. Which disease affects both rabbits and poultry?

Coccidiosis / Pneumonia

37. Give any **one** example of a plant propagated by grafting. Avocado
Orange // Mango // Lemon // Tangerine // Apple // Grape
38. State any **one** way in which a spiny ant eater differs from all other mammals.
A spiny ant eater lays eggs while all other mammals give birth to the young ones
39. In which way are PLASCY messages important to school going children? Controls
Prevents school drop out // Prevents contraction of STDs // early
40. Apart from candling, name other practice carried out on a poultry farm. Pregnance
Debeaking // Vaccination // Treating // Culling // Isolation
Feeding // Brooding // In Cubation

SECTION B

41. a) Name the reptile that protects itself by changing its body colour.
Chameleon
- b) In which **two** ways are crocodiles and alligators similar to a duck billed platypus in terms of their reproduction?
 i) both lay eggs
 ii) both undergo internal fertilization
- c) Apart from having mammary glands, give any other **one** reason why a bat is called a mammal.
It has fur
42. **The diagram below shows a musical instrument, study it carefully to answer questions that follow.**



- a) To which group of musical instruments does the above instrument belong?
Wind musical instruments // Aerophones
- b) Amongst pipes 1, 2 and 3, name the pipe that will produce the highest pitch of sound.
Pipe 1 // 1

c) Give a reason for your answer in 42(b) above.

It is the shortest || It is short ||

d) How does the above shown musical instrument produce sound?

Through vibration of the air when blown

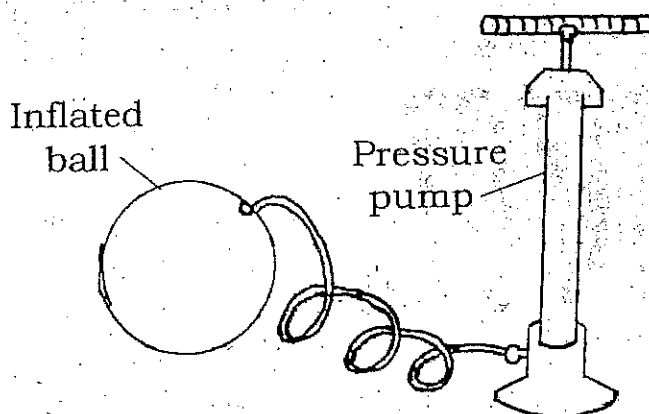
43. In the table below Part A shows tools found in a first aid box and Part B has their functions.

PART A	PART B
Sling	for sterilizing medical tools
Surgical spirit	holds the fracture arm
Bandage	keeps the broken bone in position
Splints	tying splints around a fracture

Use the tools in Part A of the table to match their uses in Part B.

- a) Sling holds the fracture arm
 b) Surgical spirit for sterilizing medical tools
 c) Bandage tying splints around a fracture
 d) Splints keeps the broken

44. The diagram below shows a property of air. Study it and answer the questions that follow.



- a) Which property of air is shown in the above diagram?
 Air can be compressed || Air exerts pressure || Air occupies space
 b) Give a reason why the ball increases in size as air is being pumped in it.
 Air occupies space in the ball
 c) How does air move from one place to another?
 Through convection || Convection current

d) State any **one** way in which air is related to wind.

Both contain gases

45. a) State any **one** way in which the following vectors spread diseases.

i) Cockroach by contaminating food by using its hairy body

ii) Itchmite by biting

b) How does pouring of oil on stagnant water control disease vectors?

It suffocates the mosquito into larva. It cuts off (blocks) oxygen supply

c) In which way do diseases spread by vectors affect one's health?

They weaken immunity. They destroy white blood cells

46. a) Give any **one** example of an exotic breed of pigs. Middle white

Landrace, Saddleback, Poland, China, large black

b) State the reason why a pig sty should be constructed with a slanting

floor.

for easy cleaning. To enable urine flow out easily

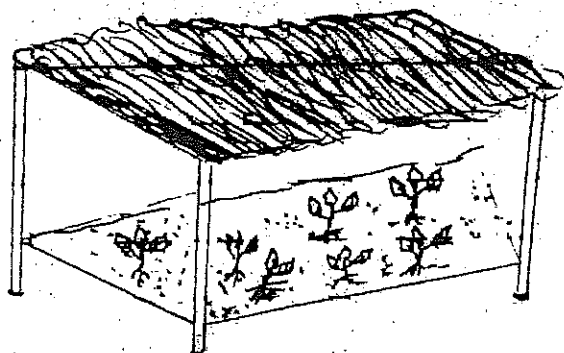
c) State any **two** reasons why farmers would prefer rearing pigs to cattle.

i) Pigs are cheaper than cattle

ii) Pigs have a shorter gestation period than cattle

47. **The diagram below is of a nursery bed. Study it and use it to**

answer the questions that follow.



a) Give a reason why farmers put part **Y** on a nursery bed?

To protect seedlings from harsh weather conditions

b) How do we call the removal of part **Y** from the nursery bed?

Hardening off

c) State any **two** reasons why some plants are grown in a nursery bed before transplanting.

i) for proper seedling selection

ii) to give a farmer to prepare the main garden

48. a) Name any **one** permanent method of family planning in females.

Tubal ligation

b) State any **one** reason why the above mentioned method is said to be permanent.

..... It can not be reversed

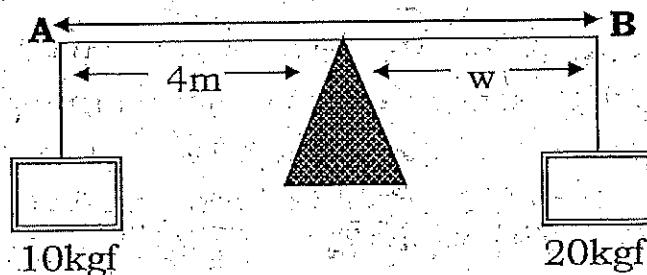
c) How are the testes different from the epididymis in terms of their function?

..... Testes produce sperms while Epididymis store sperms

d) In which **one** way can a primary seven pupil avoid contraction of HIV/AIDS?

..... Avoid sharing sharp skin piercing objects with anyone
 Abstaining from sex ~~and~~ use screening blood before transfusion

49. **The diagram below is of a lever. Study it and answer the questions that follow.**



a) To which class of levers does the one above belong?

..... First class levers

b) Calculate the distance from point A to B.

$$L_F \times L_A = E_F \times E_B$$

$$10 \times 4 = 20 \times w$$

$$40 = 20w$$

$$\frac{40}{20} = \frac{20w}{20}$$

$$2 = w$$

$$\frac{A \text{ to } B}{4m + 2m}$$

$$= 6m$$

50. a) Give the meaning of the term "anti social behaviours".

..... Behaviours that are not acceptable in the society

b) State any **two** effects of antisocial behaviours to an individual.

i) Leads to self neglect head to death / imprisonment

ii) Leads to brain damage school drop out / Early pregnancy

Leads to liver damage Early marriage

- c) As a primary seven pupil, give **one** way of controlling antisocial behaviours.

Join sports club

51. a) What is **reflection**?

Avoid bad peer groups / proper parental guidance / this is a rule and a way the bouncing off light rays when they strike a shiny surface

- b) State the law of reflection.

The angle of incidence is equal to the angle of reflection. The incident ray, the normal and the reflected ray at the point of incidence

- c) Which type of reflection occurs on a rough shiny surface?

Irregular (diffuse) reflection

- d) Apart from the above named type of reflection, name any other type of reflection.

Regular reflection

52. a) Give any **two** examples of a drupe.

Walnuts // oil palm / olive / plane
Mango // Peaches // ii) Avocado // Coconut / Coffee

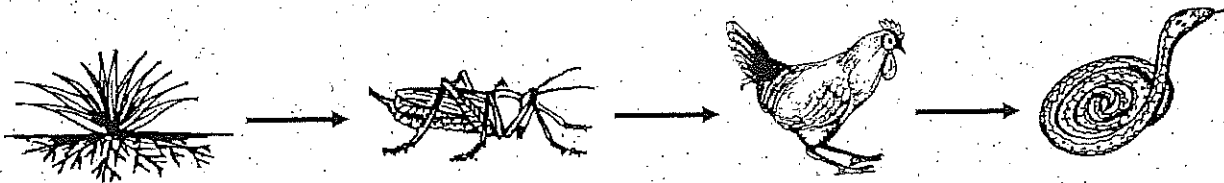
- b) How is a drupe different from a berry?

a drupe has one seed while a berry has many seeds.

- c) Which mode of dispersal does a drupe undergo?

Animal dispersal.

53. **The diagram below is of a food chain. Study it and answer the questions that follow.**



- a) Name the following in the above food chain.

i) Producer Grass (plant)

ii) Tertiary consumer Snake

- b) What would happen to the cock if grasshoppers were removed from the above food chain?

the cock would starve.

- c) Which form of energy enables grass to make its own food?

Sunlight

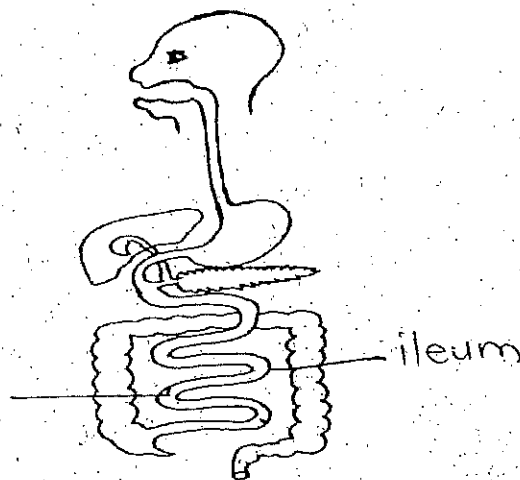
54. a) Name the part of a ventilated Pit Latrine that;

i) Traps flies the screen

ii) Allows in air the squat hole

- b) What is the recommended distance from;
- i) a water source 30 m / 30 metres
- ii) kitchen 10 m / 10 metres

55. The diagram below is of a digestive system. Use it to answer questions that follow.



a) Name any **two** parts of the alimentary canal.

i) Gullet / stomach ii) Duodenum / ileum

b) Using an arrow, on the above diagram show the part where absorption of food takes place.

c) Which process enables the movement of food in the above system of the body to take place?

Peristalsis

Approved by
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Academic Manager Science

GOOD LUCK