

MOTHELCARE PREPARATORY SCHOOLS

REVISION WORK TERM I - 2020

P.7 INTEGRATED SCIENCE

TIME ALLOWED: 2 HOURS 15 MINUTES

SET IV

Index No:

Random No.					Personal No.		

Candidate's Name

: MARKING GUIDE

Candidate's Signature

: SCIENCE SET IV

School Random No.

: Stream:

District ID

:

Read the following instructions carefully.

1. This paper is made up of two sections A and B.
2. Attempt **all** questions. All answers to both sections A and B must be written in the spaces provided.
3. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
4. Unnecessary alteration of work may lead to loss of marks.
5. Any handwriting that cannot be easily read may lead to loss of marks.
6. Do not fill any thing in the boxes indicated for Examiner's use only.

FOR OFFICIAL USE ONLY			
SECTION	EXRS MARKS	T/L MARKS	OFFICEL
A			
B			
TOTAL			

SECTION A (40 MARKS)

1. State one thing that a hen provides to its chicks.

• Food || water || protection

2. In which harmful way is a water snail similar to a housefly?

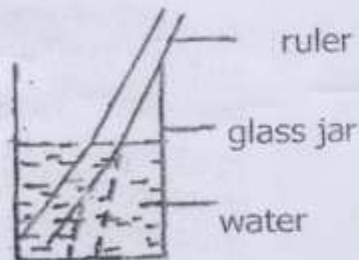
• Both are disease vectors || Both spread germs that cause diseases to people.

3. How can you keep your skeletal system in good working order?

• By doing regular physical exercises || By feeding on foods rich in calcium || observing good posture || going for checkup.

The diagram below shows a glass with water and a straight ruler in it.

Use it to answer question 4.



4. What causes the ruler to appear bent?

• Due to change of speed of light as it passes through different media.

5. Which part of a mushroom produces and stores spores?

• Gills

6. How can a family participate in the promotion of primary health care?

• By disposing human wastes properly || By constructing latrines || By taking children for immunisation || Bailing water for drinking.

7. Give one danger of draining wetlands.

• It leads to death of aquatic animals. || Its leads to drought || leads to floods

8. State the function of suckers and hooks to a tape worm || They are used for attachment. || Suckers and hooks attach a tape worm onto the walls of ileum.

The diagram shows an experiment done by P.7 students. Study it and answer questions 9.



9. Identify the property of magnets shown in the diagram.

• Magnetism is strongest at the poles.

10. How are humming birds adapted to their mode of feeding?

• They have long, slender and slightly curved beaks to suck nectar. They have long, slender and slightly curved beaks.

11. How is cerumen useful in the human ear?

• It traps dirt in the ear. Cerumen is a medical word which means ear wax.

12. How do people get infected with measles?

• Through contact with some one infected of measles.

13. Give one difference between the air we breathe in and the air we breathe out.

• The air we breathe in has more oxygen and the air we breathe out has more carbon dioxide.

14. Mention one thing that you can do to increase the brightness of the light of a bulb.

• By increasing the voltage in the circuit. By adding more dry cells in the circuit.

15. Why is the zero grazing system of keeping cattle suitable in urban areas?

• Zero grazing system does not require a large piece of land. It requires a small piece of land.

16. Mention one thing you can do to care for your cassava crops in the garden.

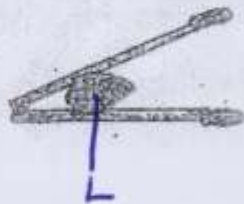
• By weeding them. By spraying them using pesticides.

17. Suggest one way saliva is useful during digestion?

• Saliva contains salivary amylase that digest cooked starch.

• Saliva softens food for easy swallowing.

The diagram shows a nutcracker. Study it and answer the questions which follow.



18. Show with an arrow letter L the position of the load.

• Second class levers. 2nd class levers.

19. In which class of levers is a nutcracker?

• Second class levers. 2nd class of levers.

20. How are air sacs (alveoli) adapted to their function of gaseous exchange?

• They are numerous. They are many in number.

21. Apart from meat production, why else do people keep goats?

• For milk production // For mohair //

22. The child's health card shows immunization information about a child. Mention any one piece of information recorded on a child's card

• Sex of the child // Date of birth // Parents names // order of birth .

23. Which component of the soil improves on its fertility?

• Humus .

24. Apart from baking of bread how else can yeast be useful?

• Fermentation of alcohol .

25. Of what importance are ventilators on living house?

• Ventilators let out stale air // They let out warm air .

26. Name the blood vessels which transport blood from the heart to all parts of the body.

• Arteries .

27. How are maggots and bacteria found in pit latrines useful?

• They reduce the volume of faeces in the Pit latrine .

28. Identify the force which enables a bicycle to stop when the brakes are applied.

• Friction // Frictional force // Force of friction .

29. You heard the school bell at the end of the lesson, what sense organ did you use to detect the sound of the school bell?

• The ear .

30. Why is HIV/AIDS considered to be the most dangerous sexually transmitted disease?

• It has no cure .

The diagram shows the foot of a bird.



31. How is part marked Z important to the bird?

• For paddling water while swimming .

32. Give one example of a bird with such a foot.

• Duck // Swan // Pelican // Goose

33. Name the process by which liquids turn into gases (vapour).

• Evaporation.

34. Give one way of identifying a legume from other dicotyledonous crops.

• Legumes have root nodules.

35. Which part of the male reproduction organ is responsible for production of seminal fluid?

• Seminal Vesicles.

36. How does sun drying help in preservation of food?

• Heat from the sun dehydrates food // Heat from the sun drains moisture from the food.

37. In which state of matter does sound travel slowest?

• Gaseous state // Gas state.

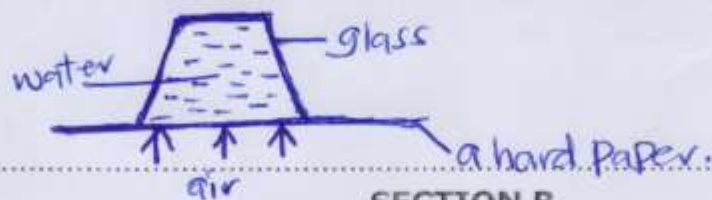
38. Give one characteristic of enzymes.

• They act on specific foods // They are destroyed by heat // They are proteins in nature.

39. What is the difference between the life cycle of a grasshopper and that of a mosquito?

• A grasshopper has an incomplete life cycle while a mosquito has a complete life cycle.

40. In the space below, draw a diagram to show that air exerts pressure.



SECTION B

41(a) What do we call the programme where older children teach young children good health habits?

• Child to child programme.

(b) State two good health habits you teach your young brother or sister,

i) • Washing hands before eating // Dental flossing

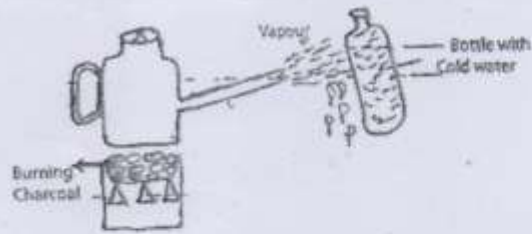
ii) • Brushing teeth // Combing hair // Washing clothes

(c) Write down one requirement for a pregnant woman.

• Feeding on a balanced diet // Enough rest

• Simple physical exercises // ante-natal care.

42. The diagram below is of an experiment performed in a class. Study it and answer questions that follow



(a) What natural process in the environment does this experiment show?

- Water cycle

(b) What does stove represent in the process?

- Sun

(c) What is the importance of cold water in the bottle?

- To condense evaporated water

(d) Give any one other process that takes place in the same way.

- Distillation // Rain formation

43(a) what is an energy resource?

- Is any component of environment that provides useful energy to man

(b) Give one example of;

(i) a non-living resource: Air // Soil // Rocks // Minerals // water

(ii) a living resource: Plants // animals

(c) How can air be used as an energy resource?

- For winnowing // Running windmills // Flying Kites

44(a) What is fever?

- Is a condition when the body temperature rises beyond the normal

(b) Suggest one way you can give First Aid to a person with fever.

- Tepid sponging // Cold compression

(c) Mention one condition which results into fever.

- Malaria // Sickness // illness

(d) How is the first degree burn different from the third degree burn?

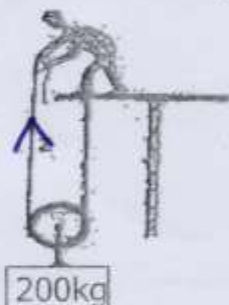
- In first degree burn, the skin is slightly burnt while in third degree burn, the skin is deeply burnt

45. Match the type of joint to the part of the human body where each names.

<u>Type</u>	<u>Part</u>
Hinge joint	wrist
Gliding joint	shoulder
Pivot joint	neck vertebra
Ball and socket joint	elbow

- (a) Hinge joint: Elbow
 (b) Gliding joint: Wrist
 (c) Pivot joint: Neck vertebrae
 (d) Ball and socket joint: Shoulder

46. Study the diagram below and answer questions that follow



- a) Name the type of pulley shown in the diagram.
 - Single movable pulley.
 b) How does the pulley shown make work easy?
 - It reduces the effort applied to lift the load.
 c) Put arrows on the strings to show the direction of the effort.

(d) If the mechanical advantage of machine above is 2, calculate the effort required to move the load.

$$M.A = \frac{L}{E}$$

$$2 = \frac{200\text{kg}}{E}$$

$$E \times 2 = 200\text{kg} \times 1$$

$$\frac{1}{2} E = \frac{200}{2}$$

$$E = 100\text{kg}$$

47(a) Write down any two types of poultry.

- (i) Broilers || Dual purpose
 (ii) Layers

(b) State two disadvantages of keeping local breeds of poultry.

- (i) They lay few eggs || They take long to mature.
 (ii) They lay tiny eggs || They are small in size.

48(a) List two things you can do to promote personal hygiene.

- (i) By brushing teeth regularly || By washing clothes || ironing
 (ii) By combing hair || cutting finger nails regularly.

(b) Mention two things that you can do to live a healthy life style.

- (i) Doing regular physical exercises || Observing proper personal hygiene.
 (ii) By eating/feeding on a balanced diet.

49(a) What is the greatest natural source of heat and light?

- Sun.

(b) Give two effects of heat on matter.

- (i) - It makes matter change state. // It makes matter expand.
(ii) - It increases temperature of matter.

c) Lavender made a fire and she sat 1m away from the fire on a stool. By what process did she receive the heat?

- By radiation process.

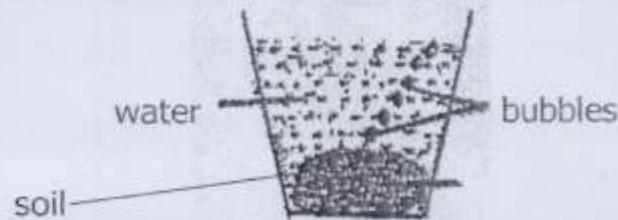
50(a) Apart from weathering, state one other process by which soil is formed.

- Decomposition of organic matter.

(b) Which component of soil forms the greatest percentage of it?

- Mineral salts.

(c) What does the experiment in the diagram prove about soil?



- Soil contains air. // Air is contained in soil.

How does mulching improve on soil fertility?

- Mulches rot and form humus.

51(a) What is a balanced diet?

- Is a meal that contains all food values in its right amount.

(b) Identify the cause of each of the following deficiency disease.

(i) Scurvy: - Lack of vitamin C.

(ii) anaemia: - Lack of iron.

(c) Why should the elderly be fed on food rich in proteins?

- To repair their worn out body tissues.

52(a) Mention two examples of chemical changes.

(i) - Burning // Digestion

(ii) - Rusting // Respiration.

(b) Write down two differences between chemical changes and physical changes.

(i) Chemical changes are irreversible while physical changes are reversible.

(ii) - Chemical changes form new substances while physical changes do not form new substances.

53(a) which scientific term is used to describe the process by which harmful waste products are removed from the body?

- Excretion.

(b) Mention the body organ which removes each of the following waste products.

(i) Sweat:

- Skin

(ii) Bile pigments:

- Liver

(iii) carbon dioxide and water vapour:

- Lungs.

54. The diagram below shows a common vertebrate. Study it and answer the questions below.



a) In which group of vertebrates is it found?

- Reptiles.

b) Identify one other vertebrate in the group with the one shown above.

- Crocodile // Tortoises // chameleon // Lizard // Alligators

c) Name the part labeled V? Terrapins // turtles etc.

- Fang.

d) How are the structures labeled (V) above useful to the vertebrate?

- For injecting poison in its prey.

55. (a) What is drug abuse? use

- Drug abuse is the use of drugs in the way that its harmful to the body.

(b) Give any one way how people abuse drugs.

- By sharing drugs.

(c) Why is it important to take drug following doctor's prescriptions?

patients take a right dosage // prevents a patient from taking overdose // prevents patients from taking under dose

(d) Give any one example of an essential drug.

Curamol // paracetamol // Hedex // Action // Aspirin.

9

END

GOOD LUCK