



DIVINE EDUCATION CENTRE
SPECIAL PLE EXAMINATION ITEM $\frac{2}{6}$

2024

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

District ID No.

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Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections **A** and **B**. Section **A** has **40 questions** and **section B** has **15 questions**. This paper has **12 pages** printed altogether.
3. Answer **all** questions. All the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil will **NOT** be marked except drawings and diagram.
5. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to loss of marks.
6. Do not fill anything in the table indicated **"For examiners' use only"** and the boxes inside the question paper.

FOR EXAMINERS'		
USE ONLY		
Qn. No.	MARKS	EXR'S No.
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

SECTION A: 40 MARKS

Questions **1** to **40** carry one mark each

- 1- What part of an insect has the similar function as gills in fish?

- 2- Where does urine collect in the kidney after filtration?

- 3- Give any one activity that can be done by young farmers' club in schools.

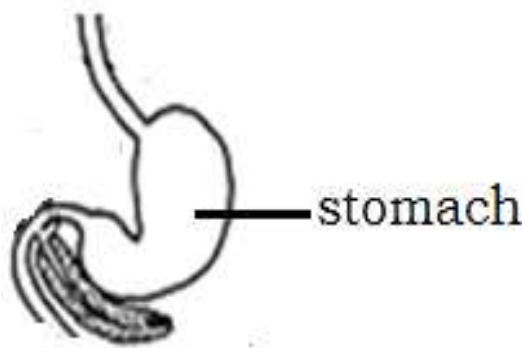
- 4- In which one way do floods lead to food insecurity?

- 5- Mention any one bacterial tick borne disease in cattle.

- 6- Suggest one way of controlling food poisoning among children at home.

- 7- State one element of PHC promoted by draining stagnant water in the compound.

Use the diagram below to answer questions 8 and 9



- 8- To which body system does the above organ belong?

9- Which enzyme in the above organ clots milk in babies

10- How is a handkerchief useful in promotion of personal hygiene?



11- How do doctors reset clinical thermometers?

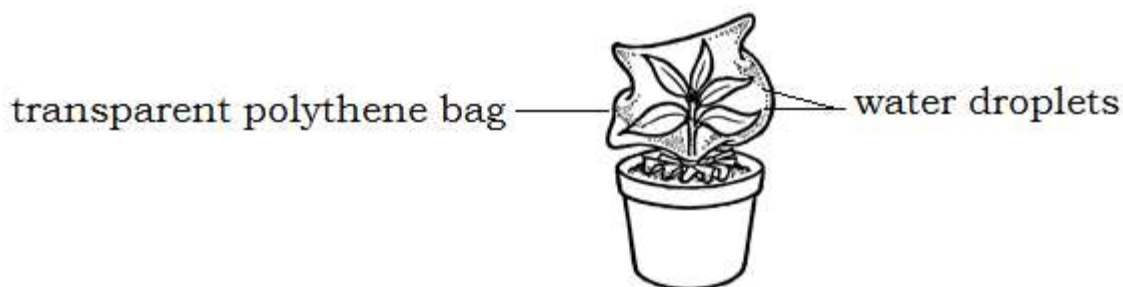
12- Why can't solid molecules move?

13- State one principle of reflections of light.

14- Give one change in the growth of a baby that is recorded on the child health card.

15- Why is it important to treat smoke from industries before releasing to the atmosphere?

The diagram below shows plant process. Use it to answer questions 16 and 17.



16- Identify the plant process illustrated in the diagram above?

17- By what process are water droplets formed inside the transparent polythene bag?

18- Name any one form of energy produced at a welding site.

19- Give any one vitamin deficiency disease.



20- In which one way do people use clay soil?

21- Name any one role of NEMA in the struggle to conserve the environment.

22- How does immunization boost one's immunity?

23- Apart from diarrhoea, name one other disease caused by poor sanitation.

24- What health concern is addressed by constructing boreholes?

25- State the arachnid that gives birth to live young ones.

26- In the space provided, draw a diagram to show that light travels in all directions from the source.



27- How is a baby crying able to produce sound?

28- Name any one viral disease spread by mosquitoes.

29- How is reproduction in bacteria similar to that of amoeba?

30- How do germs cause rotting?



31- What do we call a person who administers first aid?

32- How useful is the beak to a bird during incubation?

33- Why is it a good practice to switch off electric appliances when not in use?

34- Apart from killing germs, give any one other reason for ironing clothes.

35- How is a swamp similar to the kidneys in terms of their function?

The diagram below shows a teenage pregnant girl. Use it to answer questions 36 and 37



36.State any one problem faced by teenage pregnant girls.

37.In which one way can parents protect their girls from teenage pregnancy?

38.Name one container used in displacement method.

39- Give any one way of controlling weeds without using tools.

40- When single stroking a soft magnet material using the north pole of a bar magnet, name the pole formed at the end last stroked.



SECTION B: 60 MARKS

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

41- (a) How do snakes move?

(b) How is the reproduction in snakes different from that of frogs?

(c) Give any two reasons why animals like snakes move from one place to another.

(i) _____

(ii) _____

42- (a) Mention any two weather instruments which are not kept in a Stevenson screen.

(i) _____

(ii) _____

(b) Why is a Stevenson screen made of bright colours?

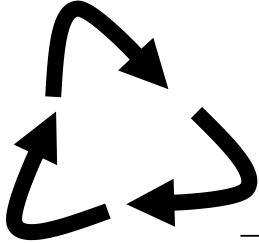
(c) How is wind useful during winnowing?

43- (a) State any two examples of renewable resources.

(i) _____

(ii) _____

(b) Identify this symbol as used in the conservation of the environment



(c) Mention one way the above practice helps to conserve the environment.



44- A family constructed their living house in a swamp.

(a) State any two problems this family is likely to face.

(i) _____

(ii) _____

(b) Why is a damp proof material put at the top of the foundation of a living house?

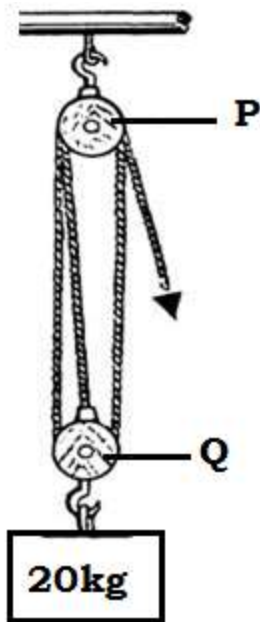
(c) Apart from house construction, name any one other human activity that degrade swamps.

45- Match the diseases to their vaccines.

- | | |
|--------------------|--------------------------------|
| (a) Diarrhoea | BCG vaccine |
| (b) Whooping cough | Pneumococcal conjugate vaccine |
| (c) Tuberculosis | DPT vaccine |
| (d) Pneumonia | measles vaccine |
| | rotavirus vaccine |

- (a) Diarrhoea _____
- (b) Whooping cough _____
- (c) Tuberculosis _____
- (d) Pneumonia _____

46- The diagram below shows a pulley system. Use it to answer questions that follow.



- a) Identify the pulley system drawn.
- _____
- b) State two ways in which the above pulley simplifies work.
- (i) _____
- _____
- (ii) _____
- _____

c) Give one advantage of using pulley system Q over P.



47- (a) What is germination?

(b) Suggest any two conditions needed for germination to take place.

(i) _____

(ii) _____

(c) How is micropyle useful to a bean seed during germination?

48- Study the information below and complete it correctly.

The body works by taking in food and _____ to produce
_____ for the body which helps the body to carry out different
activities. Digested food is transported to different body parts by
_____ and some metabolic wastes are produced. These
include carbon dioxide and _____

49- (a) Why is sugar included in making ORS?

(b) Give any two examples of solutes used in the making of ORS.

(i) _____

(ii) _____

(c) Why is water regarded as a universal solvent?



50- Dr. Opio advised Mr. Kapere to feed his 2 year old baby on a lot of milk., fish, beans and groundnuts.

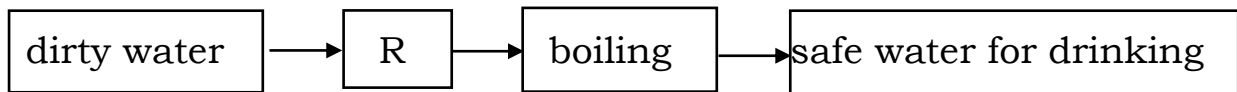
(a) Which unhealthy condition did the baby have?

(b) Give any one sign of the above unhealthy condition.

(c) Which food value did the baby obtain from the above food stuffs?

(d) Name the component of a balanced diet which is not absorbed by the body.

51- Study the illustration below to answer questions that follow.



(a) Name any one process that can be involved in R.

(b) Why is water at R not safe for drinking?

(c) State the importance of boiling water.

(d) Why does the amount of water reduce after boiling?

52- (a) How does too much noise around the hive dangerous to bees?

(b) State the type of bees that develop from unfertilized eggs.

(c) How are flowering plants useful to bees?

(d) How do bees protect themselves?



53- (a) Name any two types of pollination in flowering plants.

(i) _____

(ii) _____

(b) State the use of the following parts during pollination.

(i) anthers

(ii) stigma

54- (a) Why is there no problem hugging with a person who is infected with HIV / AIDS in your community?

(b) Why are married couples advised to go for treatment of HIV / AIDS together?

(c) In which one way can school going children protect themselves from HIV / AIDS?

(d) What component of blood is destroyed by HIV?

55- (a) Name any one exotic breed of rabbits kept in Uganda.

(b) Give any one rabbit disease that does not attack poultry.

(c) In which two ways can rabbits be prevented from digging burrows in the hutch?

(i) _____

(ii) _____

END

