

NABBUNGA FOUNTAIN OF EDUCATION DAY AND BOARDING PRIMARY SCHOOL, VILLA ROAD P/S, KASAANA JUNIOR SCHOOL, AND MASTER CARE PRIMARY SCHOOL

PRE-P.L.E JOINT EXAMINATION 2022

SUBJECT : INTEGRATED SCIENCE

DURATION : 2 HOURS 15 MINUTES

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Index No. :	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; height: 20px;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table>							<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; height: 20px;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table>			

Candidate's Name :

Candidate's Signature :

District Name :

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully:

1. This paper has **two** sections: **A** and **B**.
2. Section **A** has 40 questions (40 marks)
Section **B** has 15 questions (60 marks)
3. Answer all questions. All questions to both Sections **A** and **B** must be written in the spaces provided.
4. All answers must be written using a blue or black ball-point pen or fountain pen.
5. Unnecessary changes of work may lead to **loss** of marks. All diagrams must be drawn in pencil.
6. Any handwriting that cannot easily be read may lead to **loss of marks**.
7. Do **not** fill anything in the boxes indicated:
"For Examiners' Use Only"

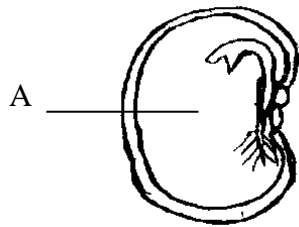
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Qn. No. EXRS' IN.	MARKS	
1 – 20		
21 – 30		
31 – 50		
51 – 53		
54 – 55		

SECTION A:

1. Name one natural block in the food path.

2. Which element of PHC is promoted by cutting fingernails short?

The diagram below is of a bean seed. Study it carefully and answer the questions that follow.



3. What is the role of part marked A during seed germination?

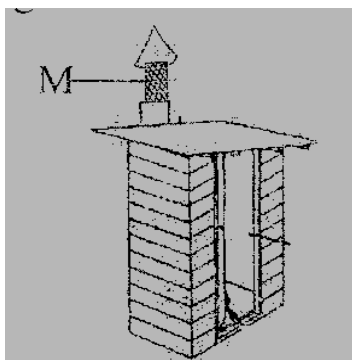
4. Name the component of blood which is destroyed by HIV/AIDs infection.

5. How is the use of electricity environmentally friendly?

6. A child was born with a gap between two incisor teeth.
What name is given to the gap?

7. Name one factor that may affect the pitch of sound produced by a guitar.

The diagram below shows a VIP latrine. Use it to answer the questions that



8. How does part marked M control diarrhoeal disease?
-
9. What is the danger of the larva stage of butterflies to crops?
-
10. Give one use of light from artificial sources.
-
11. How do trees reduce transpiration during a dry season?
-
12. State one role of mammalian skin.
-

The diagram below shows a stone being thrown using catapult. Use it to answer question 13.

13. What type of energy is possessed by the rubber band before the stone is released?
-

14. Why does a thermos flask have a tight stopper?

15. Name the part of the human body where synovial fluid is found.

16. Give one way a passion fruit benefits from a nearby mango tree.

17. State the type of energy stored by a dry cell.

18. Name the vector which transmits bilharzia disease.

19. What causes the bending of the light ray when it moves from one medium to another?

20. N.P.K is one the artificial fertilizers. What does K stand for?

21. What happens to a patient who gets under dose?

22. Name one problem farmers who are near forests face.

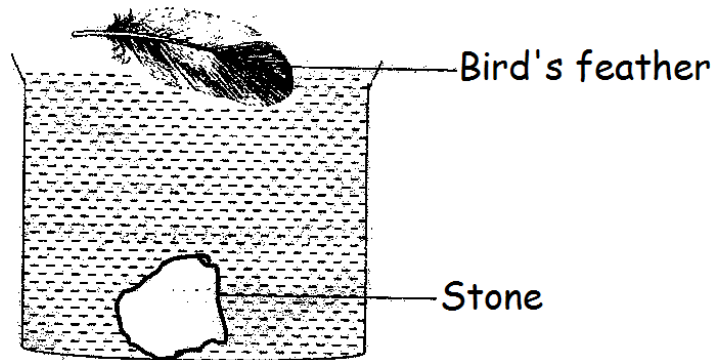
23. What is the role of a chalaza in bird's eggs?

24. Give one reason why sacks of beans in a store should be put on a raised stand.

25. Why is AIDs the most feared disease in our community?

The diagram below shows a bird's feather and a stone in a jug of water. Study and use them to answer question

26.



26. Why did the stone settle at the bottom while the feather remain on top of the water?

27. Give one reason why a barber uses alcohol.

28. Which process in plants cannot take place without oxygen?

29. Why does a class use the displacement method during their study?

30. Why do plants require chlorophyll during photosynthesis?

The diagram below shows two metallic ball rings. Study them and answer questions 32 and 33.

a) Before heating

b) After heating

at room temperature

31. What does the experiment show about metals?

32. Why did the metallic ball in B fail to pass through the ring?

33. Name the substance which stops the action of hydrochloric acid on the chyme.

34. Which body organ can be affected by sharing of clothes?

35. Name the gas which increases around the tree when photosynthesis is taking place.

36. Where in the alimentary canal does absorption of alcohol take place?

37. Give one method a chameleon uses to get its prey.

38. Why should the cooking place be raised from the ground?

39. Which mineral deficiency leads to deformed bones in human beings?

40. Why does a 20 litre jerry can filled with water weigh less in water?

SECTION B:

41. **The diagram below is of an invertebrate in the mollusk group. Study it and use it to answer questions that follow.**

a) Name the part marked W.

i. W _____

ii. X _____

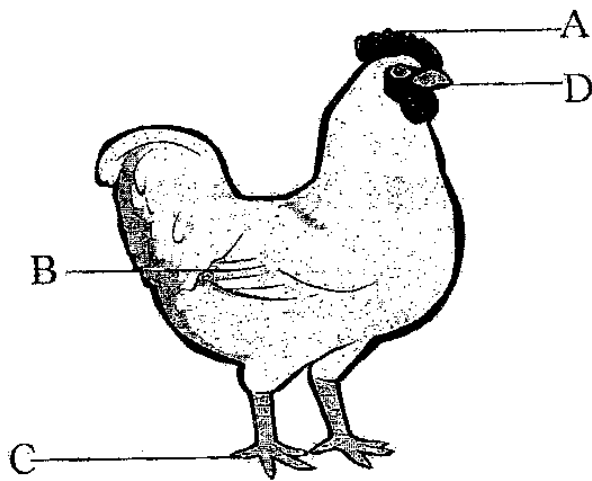
b) State the function of the substance marked X to the above mollusk during movement.

c) Mention the habitat for the above mollusk.

42.a) What is seed dispersal in plants?

- b) Apart from animals, name other two agents of seed dispersal.
- i) _____
- ii) _____
- c) State one characteristic of seeds dispersed by animals.
- _____

43. The diagram below is of a bird. Use it to answer the questions that follow.



- a) Name the parts marked A and C.
- A _____ C _____
- b) State the function of part marked D.
- _____
- c) Which letter shows the part used for flying?
- _____

- 44.a) State two dangers weeds cause to crops in a garden.
- i) _____
- ii) _____
- b) Name one material that can be used for mulching.
- _____

c) How do weeds affect the farmers economically?

45.a) Name two groups of vertebrates with streamlined bodies.

i) _____ ii) _____

b) Give the importance of streamlined ness of the body to any of the groups in (a) above.

c) Apart from streamlined ness, give one other similarity between vertebrates in (a) above.

46. a) Name two non – infectious diseases which affect the respiratory system.

i) _____

ii) _____

b) Why are diseases in (a) above said to be non-infectious?

c) State the best way of avoiding infectious diseases.

47. Match correctly.

Anaemia bacaterium

Ringworm virus

Rinderpest iron

Anthrax
 fungus

i. Anaemia _____

ii. Ringworm

iii. Rinderpest _____

iv. Anthrax _____

48. What is castration in the rearing of goats?

b) State one of the methods used in the castrating of goats.

c) Give two benefits of castrating animals.

i) _____

ii) _____

49.a) Name two crops that require staking.

i) _____

ii) _____

b) Give one reason which necessitates the above crops to be staked.

c) How does crop staking lead to good yield?

50.a) Name the organ that removes urine from the body.

b) To which body system does the organ named in (a) above belong?

c) Give the mineral which if taken in excess affects the organ in (a) above.

d) How is the urethra different from the ureter?

51.a) State one organism which reproduces by means of binary fission.

b) Which instrument is used in seeing the above stated organism in (a) above?

c) Mention one effect of the above organism to man.

d) Why do these organisms mostly stay in fluids?

52.a) What name is given to reflected sound?

b) How are echoes important to;

i) sailors

ii) bats

c) Mention one way in which echoes are reduced in music recording studios.

53.a) Name two diseases which affect the red blood cells.

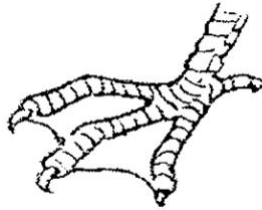
i) _____

ii) _____

- b) Apart from the red blood cell, state other one type of blood cell.

- c) Mention the blood cell whose proper functioning requires vitamin K.

54. **The diagram below is of a foot of a bird. Study it carefully and answer the questions that follow.**



- a) Name the habitat for the bird of this type of foot.

- b) Give two examples of birds with such a foot.

i) _____

ii) _____

- c) State one characteristic of the above group of birds.

- 55.a) State the way fungi differs from bacteria in their mode of reproduction.

- b) Give two examples of activities which cannot be carried out without fungi.

i) _____

ii) _____

- c) Why should rooms handling storage of cereals be subjected to a lot of heat in the control of damage by fungi?
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*****HARD WORK LEADS TO SUCCESS*****