



THE **PRIME EXAMINATIONS** 2024

P.5 MID TERM I

INTEGRATED SCIENCE

Time allocated 2 hours 15 minutes



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READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has two sections: A and B. Section A has 40 questions (40 Marks) and Section B has 15 questions. (60 Marks)
2. Answer 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. Any work written in pencil will not be marked.
4. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
5. Do not fill anything in the table indicated
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QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

APPROVED:

[Signature]
Consultant

Integrated Science Department (PEC)

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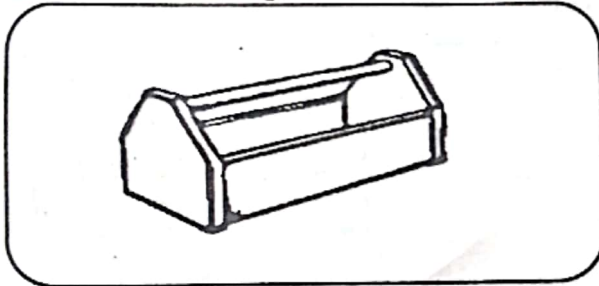
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Turn Over

Section A. (40 Marks)

1. Name any one type of bee found in the hive.
2. Give a reason for boiling drinking water.
3. Why are petals of some flowers brightly coloured?
4. Name any one edible product obtained from ducks.
5. State the role of water during seed germination.
- *6. Give the meaning of the **term mass**.

The diagram below shows an item found in a deep litter house. Study and use it to answer questions 7 and 8.



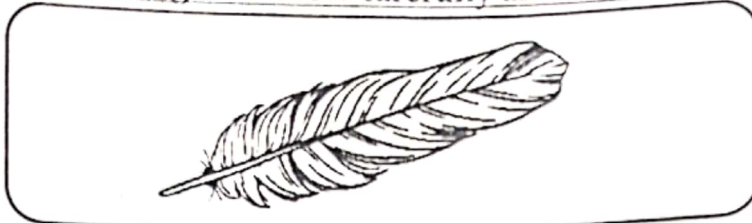
7. Identify the item shown in the diagram above.
8. State the use of the above item to a poultry farmer.
9. Name the best season for planting crops.
10. Name the food value got from eating honey.
11. How can tapeworm infestation be prevented among people?
12. Write the first step to follow when preparing ORS.
- *13. Give a reason why a piece of paper floats on water.

14. State the use of soap when promoting personal hygiene.

15. Why is the hutch of rabbits made of wire mesh?

16. Name the insect that commonly pollinates flowers at night.

Study the diagram below carefully and use it to answer questions 17 and 18.



17. Identify the type of feather shown in the diagram above.

18. How is the above feather important to birds?

19. State one way in which bees benefit from plants.

20. Name the component of air that takes the highest percentage in the atmosphere.

21. State any one advantage of mulching a garden.

22. Which type of soil is the best for growing crops?

23. How do hookworms enter into our body?

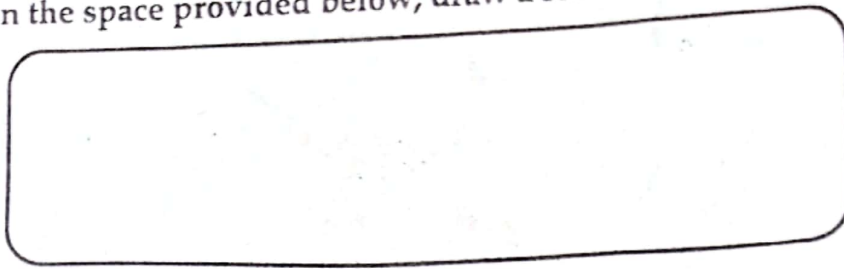
24. Apart from free range system, give one other system of keeping poultry.

25. Give any one way of preventing kwashiorkor among infants.

26. State one danger of poor disposal of human wastes.

27. Name the type of clouds that gives us rain.

28. In the space provided below, draw a leaf with a parallel leaf venation.



*29. Name any one example of a sinking object.

30. How do birds reproduce?

31. What do we call *the small stones found in the gizzard of poultry*?

32. Name the sense organ for sight.

33. How are local materials like sisal important in improving sports activities in schools?

34. Which vector is involved in the 4Fs germ path?

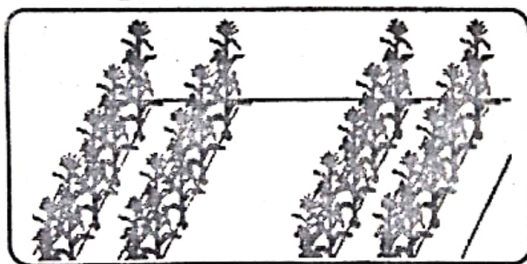
35. Mention the domestic animal used for security at home.

*36. Why is displacement method used when finding the volume of an irregular object?

37. How is a spur useful to a bird?

38. Name the solvent used in making O.R.S.

The diagram below shows a method of planting crops. Study and use it to answer questions that follow



39. Which method of planting crops is shown above?

40. State any one advantage of planting crops using the method shown above.

Section B (60 Marks)

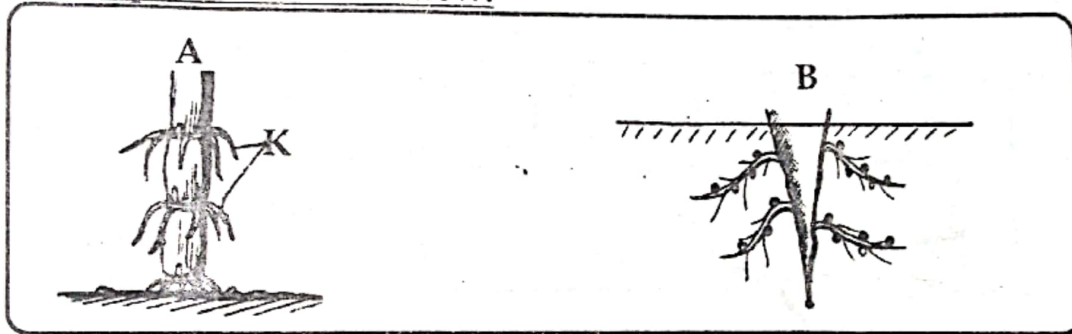
41. (a) What are *poultry vices*?

(b) Mention any two examples of poultry vices.
(i) _____
(ii) _____
(c) How does proper feeding of poultry help to control poultry vices?

42. (a) *A part from bees*, mention two other examples of social insects.
(i) _____ (ii) _____
(b) Why are bees regarded as social insects?

(c) How do crop farmers benefit from worker bees?

43. The diagram below shows two different root systems. Study and use it to answer questions that follow.



- (a) Identify the root system marked by the letters A and B above.
(i) A _____ (ii) B _____
(b) State the role of roots marked K on diagram A above.

(c) How does root system B help to maintain soil fertility?

4. (a) Give the role of the following types of teeth to man.
(i) **incisor teeth**

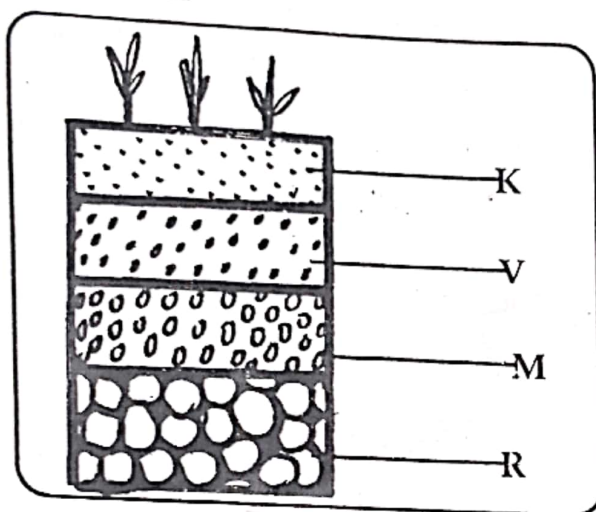
(ii) **canine teeth**

(b) State one practice that can be done to keep the teeth in a good working condition.

(c) What possible danger is likely to happen if the above practice mentioned in (b) is not observed?

45. Given materials like water, measuring cylinder, a thread, a stone and an overflow can, in four sentences, explain how you can determine the volume of the stone. (04 marks)

46. The diagram below is about soil. Study it carefully and use it to answer the questions that follow.



- (a) What does the above illustration represent?
- (b) Name the soil layers marked by the letters V and R.
- (i) V _____ (ii) R _____
- (c) Why is layer K considered to be the best for growing crops?
47. (a) Name the main source of water in the environment.
- (b) State two uses of water at home.
- (i) _____
- (ii) _____
- (c) How can drinking water be protected from contamination in a home?

48. The table below shows different types of chicken. Study it carefully to answer the questions that follow.

Type A	Type B	Type C
Ancona Minorca	Light Sussex	Rhodes Island red

- (a) Which of the above types of chicken is kept for the following purposes.
 (i) meat production _____
 (ii) egg production _____
 (b) Name the type of mash given to chicks below 8 weeks.

 (c) How can a farmer improve on the egg production on his poultry farm?

49. (a) Give two food sources of proteins.
 (i) _____ (ii) _____
 (b) Why would you advise P.5 pupils to feed on food stuffs rich in carbohydrates?

 (c) Name the deficiency disease got due to lack of proteins in a diet.

50. (a) What is meant by the term *personal hygiene*?

 (b) State two ways of promoting personal hygiene.
 (i) _____
 (ii) _____
 (c) Name any one disease spread to people due to poor personal hygiene.

51. Match the vectors to the diseases they spread.

A	B
(i) Fresh water snail	Rabies
(ii) Rabid dogs	Bilharziasis
(iii) Housefly	Polio
(iv) cockroach	cholera
(i) Fresh water snail	_____
(ii) Rabid dogs	_____
(iii) Housefly	_____
(iv) cockroach	_____

52. (a) Give any two characteristics of exotic breeds of chicken.

(i) _____

(ii) _____

(b) State two physical differences between a *hen* and a *cock*.

(i) _____

(ii) _____

53. (a) How are the following body organs important to people?

(i) Heart

(ii) Lungs

(b) State two ways in which you can care for your body organs.

(i) _____

(ii) _____

54. (a) In which units are the following measured;

(i) mass

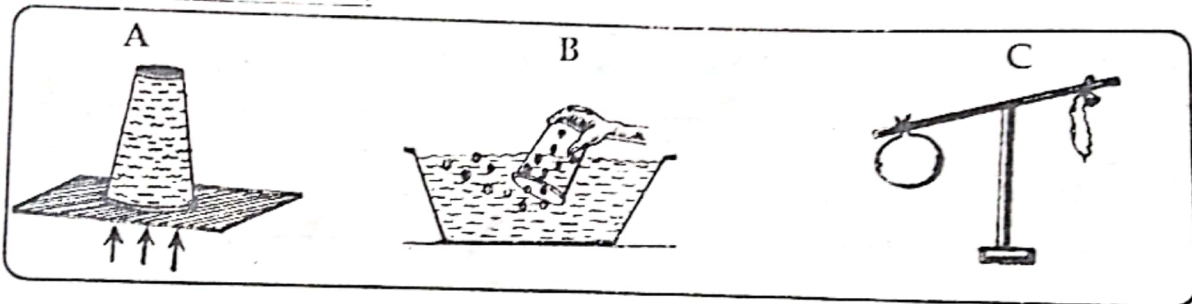
(ii) weight

(b) State two examples of objects that sink when put on water.

(i) _____

(ii) _____

55. The diagram below shows properties of air. Study and use it to answer the questions that follow.



(a) Identify the property of air represented by letters A and C.

(i) A _____

(ii) C _____


(b) Name the gas that plants use when making food.

(c) State the danger of wind to the environment.

THE PRIME P5 INTEGRATED SCIENCE MID-TERM EXAMINATION GUIDE 2024

Section A (40 Marks)

NC	Answer	Competence	Topic/Sub-Topic (Cur P.3)	Life Skills	Values	Class	Tag
1.	• worker bee	Describes honey bees.	Keeping poultry and bees P.29	Environmental awareness	Appreciation	P.5	K
2	• To kill germs in the water.	Gives the reason for boiling water.	Health in our sub-county/division. (P.47)	Problem solving	Care	P.3	C
3	• To attract pollinators.	Draws and labels the parts of a flower.	Plant life P.1	Critical thinking Self esteem	Logic Appreciation	P.4	C
4	• Meat// eggs.	Names any edible products obtained from ducks.	Keeping poultry and bees P.29	Self-esteem Self-awareness	Logic Concern	P.5	C
5	Water softens the seed coat/ water dissolves food for the embryo.	Describes the process of seed germination.	Plant life P.1	Creative reasoning Creative thinking	Concern Logic	P.4	C
6	• Mass is the quantity of matter a body contains.	Explains the relationship between mass, density and volume.	Measurements P.31	Problem solving	Care	P.5	K
7	• Feed trough	Identifies the equipment used in feeding poultry.	Keeping poultry and bees P.29	Environmental awareness Creative thinking	Appreciation Logic Care	P.5 P.5	A
8	• To prevent contamination of the feeds.	Mentions the crop growing practices done during wet season.	Plant life P.1	Self-awareness Problem solving	Care	P.4	K
9	• Wet season	Discusses the food sources of carbohydrates.	Our food	Self-awareness Problem solving	Appreciation Empathy	P.4	A
10	• Carbohydrates	Discusses the preventive measures for tapeworms.	Communicable diseases and worm infestation. (P.17)	Problem solving Critical thinking	Logic Responsibility	P.4	K
11	• By cooking food/meat properly before eating it.	Gives the first step to follow when making ORS.	Communicable diseases and worm infestation. (P.17)	Environmental awareness	Logic Care		C
12	Washing hands with soap and clean water	Describes the behaviour of objects on water.	Density P.31	Creative thinking Critical thinking	Logic Care	P.5	K
13	• A piece of paper has less density than water.	States the use of soap when promoting personal hygiene.	Personal hygiene. (P.07)	Problem solving	Appreciation		C
14	• Soap is used for killing germs on the body.	Gives reason why hutch of rabbits are made of wire mesh.	Animal life P.23	Creative thinking	Concern	P.4	K
15	To allow free air circulation.	Discusses the examples of insect pollinators.	Pollination P.2	Self esteem	Appreciation	P.5	A
16	• A moth	Draws and names different types of feathers.	Feathers P.29	Critical thinking Problem solving	Logic Concern	P.5	A
17	• A quill feather	Gives the importance of feathers to birds.	Feathers P.29	Critical thinking	Logic	P.5	C
18	• A quill feather is used for flight	Discusses the relationship between bees and plants.	Bees P.30	Self-awareness Problem solving	Care Love	P.5	C
19	• Bees get nectar from plants.	Names component of air with highest percentage.	Environment and weather in our sub-county/division. (P.22)	Critical thinking	Logic	P.4	C
20	• Nitrogen	Discusses the advantages of mulching.	Mulching P.4				
21	• To makes the soil fertile/ to control soil erosion/ to control weeds in the garden.						

22	▪ Loam soil
23	▪ Through walking bare footed.
24	▪ Cage system/ fold system/ deep litter system
25	▪ Eating food rich in proteins// eating food rich in a balanced diet.
26	Leads to easy spread of diarrheal diseases/ bad smell in the environment.
27	Nimbus clouds
28	
29	▪ Stone/Brick
30	▪ by laying eggs.
31	▪ grit
32	Eyes
33	▪ Sisal can be used for making ropes and balls that can be use as play materials.
34	▪ housefly.
35	▪ dog
36	▪ iregular objects do not have well defined shape.
37	▪ A spur is used for protection.
38	▪ Water
39	▪ Row planting
40	▪ It eases harvesting/ spraying/ weeding// pruning// mulching.
41.	(a) Poultry vices are bad habits among domestic birds. (b) Egg eating/ cannibalism/ feather pecking/ toe,pecking. (c) It keeps birds satisfied// prevents hunger in birds that prevents them from practicing poultry vice.
42	(a) termites/ grasshoppers (b) Bees live together/ bees work together (c) Bees get nectar from farmers' crops.
43	(a) (i) A – Fibrous root system (ii) B – Tap root (b) Roots marked K provide extra support to the plant. (c) root B has root nodules that contain nitrogen fixing bacteria which fix nitrogen in the soil.

44	<p>(a) (i) incisor teeth – for biting/ cutting food. (ii) canine teeth – for tearing food. (b) Brushing the teeth/ dental flossing/ rinsing the mouth (c) Bad mouth smell/ tooth decay.</p>
45	<p>- Pour water in an overflow can up to the spout level. - Tie a thread on the stone. - Gently lower the stone in water using the thread. - The amount of water displaced into the measuring cylinder will be equal to the volume of the stone.</p>
46	<p>(a) soil profile (b) (i) V – sub soil (ii) R – bedrock (c) Layer K has a lot of humus that supports plant growth.</p>
47	<p>(a) Rain (b) Water is used for cooking/ washing/ bathing/ mopping (c) covering// keeping in clean containers.</p>
48	<p>(a) (i) meat production – Type B (ii) egg production – Type A (b) chick mash. (c) By feeding birds on foods rich in calcium/ by feeding birds properly.</p>
49	<p>(a) meat/ eggs/ milk/ beans (b) To get enough energy. (c) Kwashiorkor</p>
50	<p>(a) Personal hygiene means the general cleanliness of the body and the things we use. (b) By bathing/ by brushing the teeth/ by cutting fingernails short etc. (c) ringworm infection// scabies// dhobi itch.</p>
51	<p>(i) Fresh water snail - Bilharziasis (ii) Rabid dogs – Rabies (iii) Housefly – Cholera (iv) Cockroach – Polio</p>
52	<p>(a) Exotic breeds of chicken are less resistant to diseases/ exotic breeds of chicken produce a lot of eggs/ exotic breeds of chicken are less resistant to harsh weather conditions. (b) a hen has a small spur while a cock has a big spur// a hen has a small comb while a cock has a big spur// a hen is small in size while a cock is big in size.</p>
53	<p>(a) (i) Heart – It pumps blood around the body. (ii) Lungs – It is used for gaseous exchange in the body of humans. (b) By feeding on a balanced diet/ by doing regular physical exercises/ by bathing regularly etc.</p>
54	<p>(a) (i) mass - grams/ kilograms. (ii) weight - newtons (b) coins/ stones// bricks// mercury// sand// keys.</p>
55	<p>(a) (i) A – Air exerts pressure (ii) C – Air has weight (b) carbon dioxide (c) Wind destroys crops/ wind destroys property.</p>