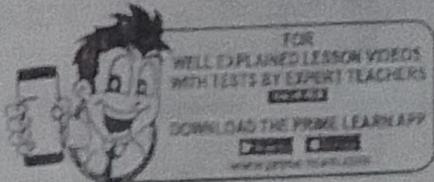


Prime THE PRIME EXAMINATIONS 2024

P.4 MID TERM III

INTEGRATED SCIENCE (Transitional Curriculum)

Time allocated 2 hours 15 minutes



Name:.....

Signature:.....

School:.....

District Name:.....

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 "FOR EXAMINERS' USE ONLY"

FOR EXAMINERS' USE ONLY		
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:

Consultant
Integrated Science Department (PEC)

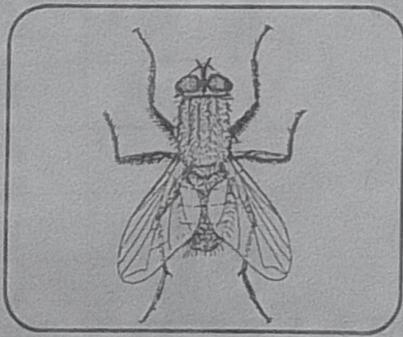
PUBLISHERS OF:-

THE PRIME SCHEMING FRAME WORKS, PUPIL'S WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES
GAMES, REVISION BOOKS, PLE ANALYSIS REPORTS AND MANY MORE.

Section A (40 Marks)

- WARNING: Not to be reproduced electronically!!!**
1. Which system of a flowering plant fixes it firmly into the soil?
 2. State any one effect of dysentery to people.
 3. Give one way how garden trowels are useful to crop farmers.
 4. Write down any one PIASCY message that you know.
 5. Give the importance of cementing the floor of a living house.
 6. Which food value is got from eating fish?
 7. State the use of a wind sock at a weather station.
 8. What do tapeworms feed on in the body of human beings?

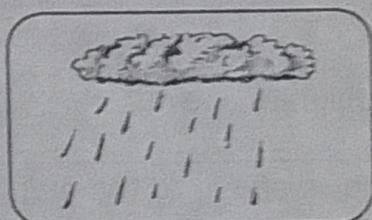
The diagram below shows an example of a vector. Study and use it to answer questions 9 and 10.



9. Name the vector shown in the diagram above.
10. Which disease is spread by the vector shown above to our eyes?
11. Give any one source of food in the environment.
12. Apart from keeping germs, mention any one danger of keeping finger nails long.
13. Write down one indicator of dirty teeth.

14. Give any one reason for administering first aid to a casualty.
-
15. Apart from air exerts pressure, give one other property of air.
-
16. Give any one characteristic of a wind pollinated flower.
-
17. Give one characteristic of clay soil that makes it suitable for pottery.
-
18. Name the deficiency disease caused due to lack of proteins in the diet.
-

The diagram below shows a weather change in the environment. Study and use it to answer questions 19 and 20.



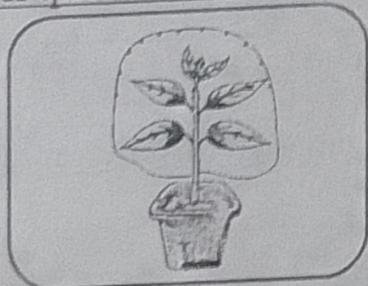
19. Name the element of weather shown in the diagram above.
-
20. State the importance of the weather change shown in the diagram above to a crop farmer.
-
21. Give any one quality of a good seed for planting.
-
22. Give one way of preventing bad smell in toilets.
-
23. Which body organ filters blood in the body?
-
24. Why is it necessary to wear clean under wears daily?
-
25. Give any one sign of malnutrition.
-
26. Give one practice that can be done to keep our teeth clean.
-

27. Mention one example of wood fuel in the environment.

28. Give the importance of chlorophyll in the process of photosynthesis.

29. State the use of a plate rack in a home.

The diagram below shows a process that takes place in plants. Study and use it to answer questions 30 and 31



30. Name the plant process shown in the diagram above.

31. Give one importance of the process shown above to the plants.

32. Write the sense organ for sight.

33. Mention any one component of a good home.

34. State one use of a wheel barrow to a crop farmer.

35. How useful are canine teeth to a dog?

36. Write the health habit carried out before mixing ORS.

37. Name any one protein product obtained from domestic animals.

38. Write down one condition that is necessary for germination.

39. Write down any one use of food in the body.

40. Name one example of a member in a nuclear family.

41. (a) What is a vector?

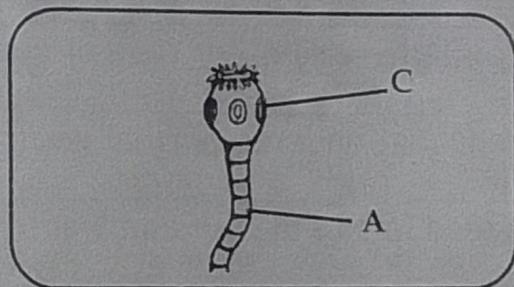
(b) Give any two ways how vectors spread germs.

(i) _____

(ii) _____

(c) How does draining of stagnant water help to control malaria in a home?

42. The diagram below shows a type of worm. Study and use it to answer the questions that follow.



(a) Name the part marked A on the diagram above.

(b) How useful is part C to the above worm?

(c) State any one way how the above type of worm enters into the body of humans.

(d) State one way of preventing ourselves from the type of worm shown above.

43. (a) Give any two examples of domestic birds.

(i) _____ (ii) _____

(b) Give two uses of domestic birds to man.

(i) _____

(ii) _____

44. The table below shows examples of vectors and diseases they spread. Match them correctly.

<u>Vector</u>	<u>Disease</u>
(i) Infected dog	river blindness
(ii) Female anopheles mosquito	sleeping sickness
(iii) Tsetse fly	rabies
(iv) Black fly	malaria
(i) Infected dog	
(ii) Female anopheles' mosquito	
(iii) Tsetse fly	
(iv) Black fly	

45. (a) Give two main causes of dehydration.

(i) _____
 (ii) _____

- (b) State any two signs of dehydration in people.

(i) _____
 (ii) _____

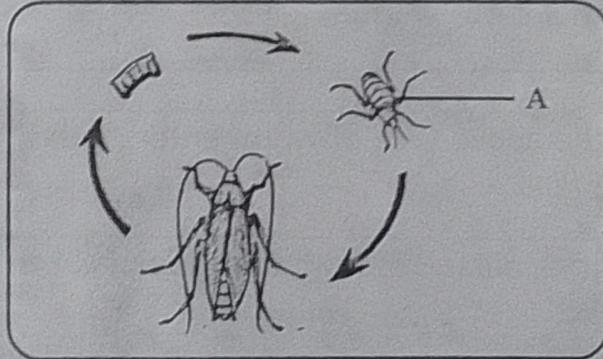
46. (a) Apart from epigeal germination, give one other type of germination.

- (b) Mention two examples of seeds that undergo epigeal germination.

(i) _____ (ii) _____

- (c) Which part of a germinating seed lets in oxygen and water?

47. The diagram below shows a life cycle of a vector. Study and use it to answer questions that follow



- (a) Name the vector with the life cycle shown above.

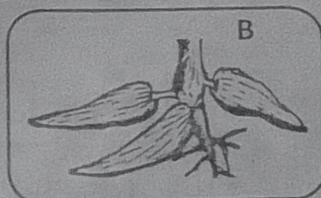
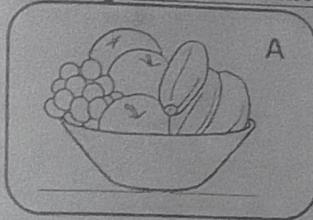
- (b) Name the stage marked A.

- (c) Give any two dangers caused by the above vector to humans.

(i) _____
 (ii) _____

52. (a) Mention two examples of items used for managing rainy weather.
(i) _____ (ii) _____
(b) Name the best season for;
(i) planting crops _____
(ii) harvesting crops _____
53. The diagram below shows a germ path. Study and use it to answer questions that follow.
-
- ```
graph LR; M[M] --> flies[flies]; flies --> food[food]; food --> C[C]
```
- (a) Name the parts marked M and C  
(i) M \_\_\_\_\_ (ii) C \_\_\_\_\_  
(b) Give one reason why we are advised to cover left over food properly.  
\_\_\_\_\_
- (c) Write down any one disease that is spread through the above germ path.  
\_\_\_\_\_
54. (a) What do we call dry materials used for covering top soil?  
\_\_\_\_\_  
(b) Mention two examples of the materials named in (a) above.  
(i) \_\_\_\_\_  
(ii) \_\_\_\_\_  
(c) Give one way how the materials named in (a) above become a disadvantage to a crop farmer.  
\_\_\_\_\_
55. (a) Give the meaning of the term air?  
\_\_\_\_\_
- (b) Which component of air is used for;  
(i) stopping fire.  
\_\_\_\_\_  
(ii) preserving food.  
\_\_\_\_\_
- (c) Give any one danger of strong wind to people.  
\_\_\_\_\_

48. (a) Give two examples of crafts items used at home.  
(i) \_\_\_\_\_ (ii) \_\_\_\_\_  
(b) Write down any two examples of materials used when making the above crafts.  
(i) \_\_\_\_\_ (ii) \_\_\_\_\_
49. The diagram below shows different types of food stuff. Study and use it to answer questions that follow.



- (a) Which food values do we get from eating foods marked A and B from the diagram above?  
(i) A \_\_\_\_\_  
(ii) B \_\_\_\_\_  
(b) Why is food stuff B grouped among root crops?  
\_\_\_\_\_
- (c) Why is it advised to eat a balanced diet at home?  
\_\_\_\_\_

50. (a) What is an accident?  
\_\_\_\_\_

- (b) Give two causes of accidents at home.

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_

- (c) Why are we advised to dispose broken glasses in a proper way?  
\_\_\_\_\_

51. (a) Give the difference between solutes and solvents.  
\_\_\_\_\_

- (b) Write down the two solutes used when making salt sugar solution (SSS).

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_

- (c) Give reason why water is regarded as a universal solvent.  
\_\_\_\_\_

**THE PRIME P.4 INTEGRATED SCIENCE MID TERM III MARKING GUIDE 2024.**

| No  | Answer                                                                                                                              | Section A (40 Marks)                                                |                                                               |                         |              |       |
|-----|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------|-------------------------|--------------|-------|
|     |                                                                                                                                     | Competence                                                          | Topic/Sub-topic: Curr Pg.                                     | Life skills             | Values       | Class |
| 1.  | ▪ Root system                                                                                                                       | Mentions the system of flowering plants which fixes it in the soil. | Plant life. (P.01)                                            | Critical thinking       | Care         | P.4   |
| 2.  | ▪ Dysentery can lead to anaemia/death/dehydration.                                                                                  | Gives the effect of dysentery.                                      | Vectors and diseases. (P.19)                                  | Self-awareness          | Care         | P.4   |
| 3.  | ▪ Garden trowels are used for transplanting seedlings                                                                               | States the use of a garden trowel.                                  | Crop growing. (P. 03)                                         | Critical thinking       | Concern      | P.4   |
| 4.  | ▪ Abstain from sex/virginity is safe/ avoid gifts from strangers/ avoid lonely places/ say no to sex/ AIDS kills.                   | Mentions PIASCY messages.                                           | Health in our sub-county. (P.47)                              | Problem solving         | Care         | P.3   |
| 5.  | ▪ It helps to prevent breeding of vectors/ it enables easy cleaning of the house.                                                   | Gives the importance of cementing the floor.                        | Sanitation                                                    | Problem solving         | Care         | P.3   |
| 6.  | ▪ Proteins                                                                                                                          | Mentions the food value got from fish.                              | Our food. (P.09)                                              | Critical thinking       | Appreciation | P.4   |
| 7.  | ▪ A wind sock tells the strength and direction of wind                                                                              | Gives the use of a wind sock                                        | Our environment and weather in our sub-county.                | Critical observation    | Concern      | P.3   |
| 8.  | ▪ Digested food.                                                                                                                    | Mentions what tapeworms feed on                                     | Communicable intestinal diseases and worm infestation. (P.17) | Effective communication | Care         | P.4   |
| 9.  | ▪ Housefly.                                                                                                                         | Identifies a housefly.                                              | Vectors and diseases. (P.19)                                  | Critical observation    | Fluency      | P.4   |
| 10. | ▪ Trachoma.                                                                                                                         |                                                                     |                                                               |                         |              |       |
| 11. | ▪ Plants/ animals                                                                                                                   | Gives sources of food.                                              | Food and nutrition. (P.35)                                    | Critical thinking       | Appreciation | P.1   |
| 12. | ▪ They damage the body/ they cause injuries.                                                                                        | Gives dangers of long finger nails.                                 | Personal hygiene.                                             | Critical thinking       | Concern      | P.4   |
| 13. | ▪ Food particles on teeth/ yellowish colour of the teeth/bad smell.                                                                 | Writes indicators of dirty teeth.                                   | The teeth. (P.13)                                             | Critical thinking       | Concern      | P.4   |
| 14. | ▪ To save life/to prevent further/ to stop bleeding.                                                                                | States why we give first aid.                                       | Accidents and safety. (P.28)                                  | Problem solving         | Care         | P.1   |
| 15. | ▪ Air has weight/ air occupies space.                                                                                               | States properties of air.                                           | Our environment and weather in our sub-county. (P.22)         | Critical thinking       | Logic        | P.3   |
| 16. | ▪ It produces a lot of pollen grains/ has dull colours/has longer filaments than the style.                                         | Gives characteristics of wind pollinated flowers.                   | Plant life. (P.01)                                            | Critical thinking       | Concern      | P.4   |
| 17. | ▪ It is sticky/ it has fine particles.                                                                                              | Gives characteristics of clay soil                                  | Soil                                                          | Environmental awareness | Concern      | P.3   |
| 18. | ▪ Kwashiorkor.                                                                                                                      | Mentions the deficiency disease for proteins.                       | Our food. (P.09)                                              | Effective communication | Appreciation | P.4   |
| 19. | ▪ Rainfall.                                                                                                                         | Names the element of weather.                                       | Weather. (p.22)                                               | Critical observation    | Concern      | P.3   |
| 20. | ▪ It provides water to crops/ it cools the environment/ it enables farmers to plant crops.                                          | Gives the importance of rainy weather.                              | Weather                                                       | Critical thinking       | Appreciation | P.3   |
| 21. | ▪ They should be well dried/ they should not be damaged/ they should not be affected by pests and diseases/ they should be healthy. | Gives qualities of good seeds.                                      | Crop growing. (P.03)                                          | Critical thinking       | Care         | P.3   |
| 22. | ▪ By flushing after use/ washing them daily.                                                                                        | Gives ways of preventing bad smell in the toilet.                   | Sanitation                                                    | Self-awareness          | Appreciation | P.3   |
| 23. | ▪ Kidneys                                                                                                                           | Names the body organ that filters blood.                            | Major body organs. (P.11)                                     | Self-awareness          | Care         | P.3   |

|    |                                                                                                                                                                                                                                                                   |                                                                                                                          |                                                                               | Topic                        | P.A               |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------|-------------------|
| 44 | (i) Infected dogs<br>(ii) Female anopheline mosquito<br>(iii) Tsetse fly<br>(iv) Black fly                                                                                                                                                                        | rabies<br>malaria<br>- sleeping sickness<br>- river blindness                                                            | Matches vectors and diseases.                                                 | Vectors and diseases. (P.19) | Critical thinking |
| 45 | (a) Vomiting/ diarrhoea/ severe diarrhoea.<br>(c) sunken eyes/dry mouth/lips/ contenance/ little or no urine<br>is passed out.                                                                                                                                    | States the causes of dehydration.                                                                                        | Communicable/intestinal diseases and worm infestation. (P.17)                 | Effective communication      | Appreciation P.4  |
| 46 | (a) hypogea germination<br>(b) beans/g. nuts/mangoes/lemon/soya.<br>(c) microspore                                                                                                                                                                                | Describes germination                                                                                                    | Growing crops. (P.03)                                                         | Critical thinking            | Concern P.4       |
| 47 | (a) cockroach<br>(b) nymph                                                                                                                                                                                                                                        | States the dangers caused by cockroaches.                                                                                | Vectors and diseases. (P.19)                                                  | Problem solving              | Concern P.4       |
| 48 | (a) mat/basket/trap/stove<br>(b) clay soil/sisal/banana fibres.                                                                                                                                                                                                   | States the importance of crafts at home.                                                                                 | Gives examples of crafts. Basic technology in our division/sub-county. (P.51) | Environmental awareness      | Appreciation P.3  |
| 49 | (a) A - Vitamins      B - carbohydrates.<br>(b) it stores the food in the roots.<br>(c) to prevent malnutrition/deficiency diseases.                                                                                                                              | Describes the importance of a balanced diet.                                                                             | Our food. (P.09)                                                              | Effective communication      | Care P.4          |
| 50 | (c) An accident is a sudden happening that may cause harm or death to the body.<br>(b) unnecessary running/ improper storage of drugs/climbing trees.<br>(c) To prevent accidents.                                                                                | Mentions examples of dangerous objects in the environment.<br>States the dangers of leaving such object in the compound. | Our environment                                                               | Environment awareness        | Concern P.3       |
| 51 | (a) Solutes are substances that dissolve in a solvent while solvents are substances which dissolve solutes.<br>(b) sugar/salt<br>(c) water dissolves almost all solutes.                                                                                          | Describes solutes and solvents.                                                                                          | Communicable diseases and warm infestation. (P.17)                            | Critical thinking            | Concern P.4       |
| 52 | (a) rain coats/gumboots/sweaters/umbrellas.<br>(b) rainy season/wet<br>(ii) dry season.                                                                                                                                                                           | Gives materials used when managing rainy weather.                                                                        | Our environment and weather in our division/sub-county. (P.22)                | Environmental awareness      | Concern P.3       |
| 53 | (a) M - Faeces      C - Fingers.                                                                                                                                                                                                                                  | Describes a 4fs germ path                                                                                                | Vectors and diseases. (P.19)                                                  | Critical thinking            | Observation P.4   |
| 54 | (b) To prevent contamination / To prevent flies from contaminating it.<br>(c) diarrhoea/dysentery/cholera/typhoid.                                                                                                                                                | Describes mulches.                                                                                                       | Growing crops. (P.03)                                                         | Critical thinking            | Care P.4          |
| 55 | (a) mulches.<br>(b) dry grass/banana leaves/coffee husks.<br>(c) some harbour pests// dry mulches can easily catch fire.<br>(a) Air is a mixture of different gases in the atmosphere.<br>(b) i) carbon dioxide<br>(c) strong wind destroys crops/ breaks houses. | Writes down the components of air. Names the components of air used in breathing.                                        | Our environment and weather in our sub-county/ division. (P.22)               | Environmental awareness      | logic P.3         |

|     |                                                                         |                                                              |                                                                    |                         |                |   |
|-----|-------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------|-------------------------|----------------|---|
| 24  | To avoid germs.                                                         | Gives the importance of washing clean under wear.            | Personal hygiene. (P.07)                                           | Critical thinking       | Care           | P |
| 25  | Stunted growth/poor health/pot belly/body weakness/loss of body weight. | Gives signs and symptoms of poor feeding.                    | Our food. (P.09)                                                   | Creative thinking       | Responsibility | P |
| 26  | Brushing teeth/lossing teeth.                                           | Wrists down practices that are done to keep our teeth clean. | The teeth. (P.13)                                                  | Effective communication | Care           | P |
| 27  | Freewood/charcoal/ saw dust.                                            | Mention examples of wood fuel.                               | Energy in our division/sub-county.                                 | Critical thinking       | Concern        | P |
| 28  | To trap sunlight.                                                       | Gives the importance of chlorophyll during photosynthesis.   | Plant life. (P.01)                                                 | Environmental awareness | Appreciation   | P |
| 29  | For putting on washed utensils to dry.                                  | States the importance of a plate rack.                       | Sanitation. (P.15)                                                 | Problem solving         | Care           | P |
| 30  | To cool plants                                                          | Identifies the process in the diagram.                       | Plant life. (P.01)                                                 | Environmental awareness | Fluency        | P |
| 31  | Transpiration                                                           | Gives the sense organ for sight.                             | Human body. (P.21)                                                 | Self-awareness          | Fluency        | P |
| 32  | An eye.                                                                 | States the importance of a good sanitation.                  | Sanitation. (P.15)                                                 | Responsibility          | Concern        | P |
| 33  | Clean compound/presence of latrine/rubbish pit/bathroom.                | States components of a good sanitation.                      | Plant in our division/sub-county.                                  | Responsibility          | Fluency        | P |
| 34  | For transporting manure/harvested crops.                                | States the importance of a wheel barrow.                     | Plants in our division/sub-county.                                 | Responsibility          | Care           | P |
| 35  | They are used for tearing meat.                                         | Gives the importance of canine teeth.                        | The teeth. (P.13)                                                  | Critical thinking       | Love           | P |
| 36  | Washing of hands.                                                       | States the health habit carried out before mixing O.R.S.     | Communityisable diseases and worm problem solving.                 | Care                    | P              |   |
| 37  | Eggs/meat/milk.                                                         | Mention animal sources of proteins.                          | Our food. (P.09)                                                   | Critical thinking       | Care           | P |
| 38  | Oxygen/moisture/warmth.                                                 | Gives the conditions necessary for plant life. (P.01)        | Effective communication                                            | Fluency                 | P              |   |
| 39  | It builds the body/it provides energy/it keeps the body warm.           | Gives the use of food in the body.                           | Food and nutrition (P.35)                                          | Critical thinking       | Care           | P |
| 40  | Mother/father/ children                                                 | Names examples of members in a family.                       | FAMILY relationship                                                | Effective communication | Fluency        | P |
| 41. | (a) A vector is an organism that spreads diseases.                      | Defines vectors                                              | Vectors and diseases. (P.19)                                       | Effective communication | Fluency        | P |
| 42  | (b) By biting/ sucking/using hairy body.                                | States the function of part marked C                         | Communicationable intestinal diseases and worm infestation. (P.17) | Critical observation    | Concern        | P |
| 43  | (c) It destroys or removes breeding places for mosquitoes.              | Discusses the uses of domestic birds.                        | Animals in our division/sub-county. (P.24)                         | Effective communication | Appreciation   | P |

**Section B (60 Marks)**