



THE PRIME EXAMINATIONS 2023

PRIMARY SIX END OF TERM II INTEGRATED SCIENCE

Time allocated 2 hours 15 minutes



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WITH TESTS BY EXPERT TEACHERS
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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
"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
LEARNING GAMES, REVISION BOOKS, PLE ANALYSIS REPORTS AND MANY MORE.

Section A. (40 Marks)

1. Name any one product obtained from cattle.

2. How are clouds important in our environment?

3. Give any one reason why parents take their children for immunisation.

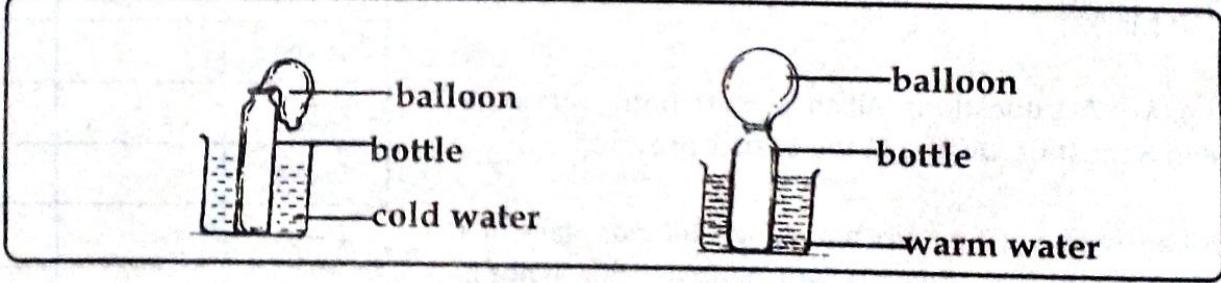
4. What is the main source of heat and light in our environment?

5. How are valves useful in the heart?

6. State any one effect of low temperature in the life of bacteria.

7. How are dust bins useful at school?

8. Name the property of air shown in the diagram below.



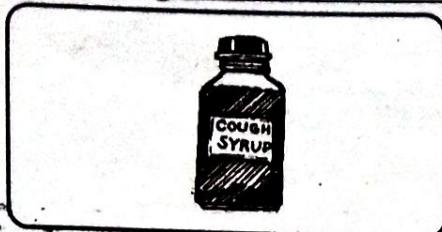
9. Why are minerals grouped under non-renewable resources?

10. Why does the government put quarantine in areas affected by Ebola?

11. Name the liquid component of soil.

12. Name the vector that spreads malaria to human beings.

Use the diagram below to answer question 14.



14. Name the type of essential drugs shown in above diagram.

15. Write down any one way of keeping our body clean.

16. State any one example of a mammal that reproduces by laying eggs.

17. Why is the trachea made of rings of cartilage?

18. How is heat from the sun useful to a crop farmer?

19. Which system of keeping poultry is commonly practiced by farmers in rural areas?

20. How is a coconut fruit adapted to its mode of dispersal?

21. Name one property of matter.

22. Why is blood first pumped to the lungs before the rest parts of the body?

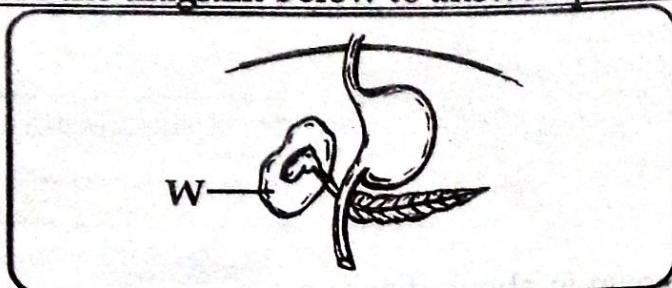
23. State any one way of managing rainy weather.

24. Give any one reason why farmers castrate male animals in a farm.

25. Name any one example of a flightless bird.

26. State any one way of saving petroleum as a non-renewable resource.

Use the diagram below to answer question 27.



27. How is part marked W important during digestion of food?

28. Name any one physical process involved in formation of rainfall.

29. What happens to the lungs during breathing in?

30. How are **ossicles** important in the ear during the process of hearing?

31. State any one way how people can protect themselves from covid -19 disease.

32. Write down any one method people use to prepare food for eating at home.

33. Name any one disease that affects both poultry and rabbits.

34. State any one effect of smoking to a pregnant woman.

35. How are palm leaves useful to people in our environment?

36. Name any one sign of mumps in human beings.

37. How is the hair useful on the human body?

38. State any one reason why a coin sinks in water.

39. What happens to the pollen grains as they land on the stigma?

40. Name any one exotic breed of rabbits.

Section B. (60 Marks)

41. (a) Mention any one natural source of sound.

(b) State any two uses of sound in our environment.

(i) _____

(ii) _____

(c) Name any one device that stores sound.

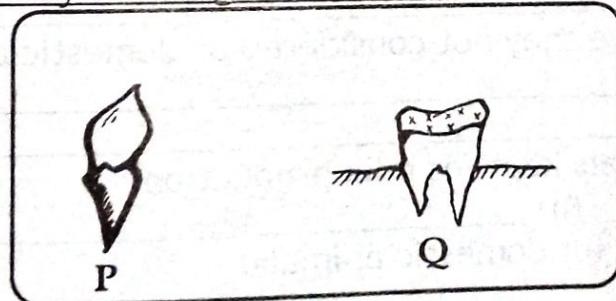
42. (a) Write down any two states of matter.

(i) _____ (ii) _____

(b) How is the convection process useful in our environment?

(c) How does heat travel through vacuum?

43. Study the diagram below and answer questions that follow.



(a) Name the type of teeth marked P and Q as shown in above diagram.

(i) P _____ (ii) Q _____

(b) How is the tooth marked P adapted to its function?

(c) State any one practice done by people to take care of the teeth.

44. (a) Write down any two methods of preserving food.

(i) _____

(ii) _____

(b) Give any one reason why people preserve food.

(c) How does sun drying preserve food?

45.

Match the following correctly.

A

- (i) Castration
- (ii) Fertilisation
- (iii) Calving
- (iv) Branding

B

- Giving birth in cows.
- Removal of male sex organs.
- Putting a mark on a cow's body
- Union of male and female gamates

- (i) Castration
- (ii) Fertilisation
- (iii) Calving
- (iv) Branding

46. (a) List down any two examples of chemical changes.

(i) _____ (ii) _____

(b) How are *chemical changes* similar to *biological changes*?

(c) Name any one chemical change that helps to improve on soil fertility.

47. (a) Some rats live in our homes. Why are they not considered as domestic animals?

(b) Write down any two domestic animals kept for milk production.

(i) _____ (ii) _____

(c) State any one way how people care for domestic animals.

48. (a) Name the part of the seed that develops into a root.

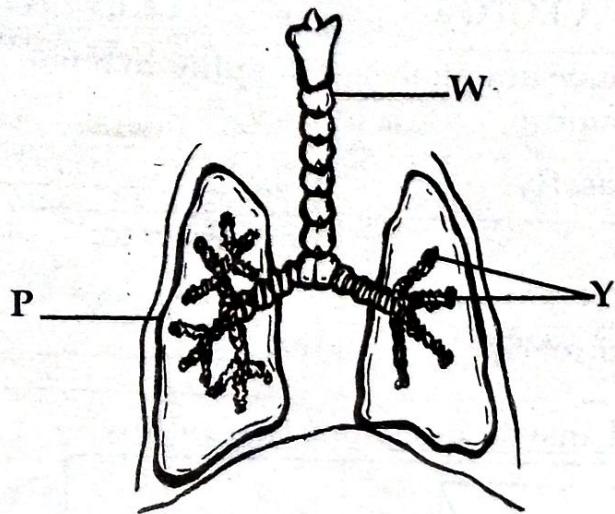
(b) State any two uses of roots to a plant.

(i) _____

(ii) _____

(c) Name any one plant with tap root system.

49. Study the diagram below and answer questions that follow.



(a) Name the parts labelled **W** and **P** in above diagram.

(i) **W** _____ (ii) **P** _____

(b) How is part **Y** useful in the diagram above?

(c) How are hairs found in the nose useful during inspiration?

50. (a) Give any two signs of poor feeding in children.

(i) _____

(ii) _____

(b) Name any one example of food stuffs rich in proteins.

(c) Give any one reason why people eat food.

51. (a) Name the part of the skeleton that protects the heart.

(b) Why are left chambers of the heart thicker walled than the right chambers?

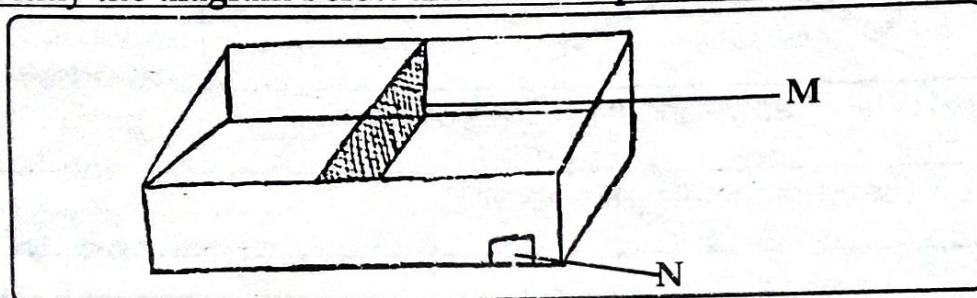
(c) How is the heart adapted to its function?

(d) What is the normal pulse rate in human beings?

52. Complete the table below correctly.

DISEASE	VECTOR	PREVENTION
(i) _____	Female anopheles mosquito	Sleeping in a net.
Dysentery	Housefly	(ii) _____
Bilharziasis	(iii) _____	Boiling water
Polio	Cockroach	(iv) _____

53. Study the diagram below and answer questions that follow.



(a) Name the part of a modern bee hive marked M and N shown above.

(i) M _____ (ii) N _____

(b) How is part marked M useful on above hive?

(c) Give any one advantage of keeping bees using above type of hive.

54. (a) A fish lives in water. Give any two ways how a fish is adapted to living in water.

(i) _____

(ii) _____

(b) What food value do we get from eating fish?

(c) How is a swim bladder useful to a fish?

55. (a) Write down any two elements of Primary Health Care.

(i) _____ (ii) _____

(b) Which element of Primary Health Care is promoted by feeding family members on a balanced diet.

(c) State any one principle of Primary Health Care.

THE PRIME P.6 INTEGRATED SCIENCE END OF TERM II MARKING GUIDE 2023.

No.	Answer	Section A (Short-answers)		Topic/Sub-topic Curriculum	Life skills	Value	P.M.
		Competence	Curriculum				
1.	▪ Meat/milk/hides/ hooves/ horns/ cow dung/ bones/ blood.	Names products from cattle.	Cattle keeping	Creative thinking	Concern	P.1	
2.	▪ Helps in formation of rain/ they make environment cool/ they protect the earth from strong sun rays.	Gives uses of clouds in our environment.	Weather changes	Problem solving	Love	P.4	
3.	▪ To prevent immunisable diseases/ to boost their children's immunity/ to prevent infant mortality rate.	Gives importance of immunisation	Immunisation	Decision making	Responsibility	P.5	
4.	▪ Sun.	Names the main source of heat and light in the environment.	Environment	Self awareness	Acceptance	P.1	
5.	▪ They prevent the back flow of blood.	States importance of valves in the heart.	Circulatory system.	Problem solving	Confidence	P.6	
6.	▪ Low temperature makes bacteria dormant.	Gives effects of low temperature on bacteria.	Bacteria and fungi.	Creative thinking	Concern	P.5	
7.	▪ For proper disposal of rubbish.	Mentions importance of dustbins at school.	Sanitation	Problem solving	Responsibility	P.4	
8.	▪ Air expands when heated.	States the properties of air.	Air and the sun	Decision making	Acceptance	P.3	
9.	▪ They can't be replaced naturally once used up.	Gives reasons why minerals are non-renewable resources.	Resources in environment.	Creative thinking	Making right choice	P.6	
10.	▪ To prevent the spread of Ebola in other areas.	States the importance of quarantine.	Ebola	Self awareness	Concern		
11.	▪ Water	Names the liquid component of soil.	Soil	Critical thinking	Making decision.	P.5	
12.	▪ Female anopheles mosquito.	States the vector that spreads malaria	Vectors and diseases.	Self awareness	Acceptance	P.4	
13.	▪ By cross breeding.	Gives ways of improving local breeds of goats.	Keeping goats, sheep and pigs.	Creative thinking	Concern	P.5	
14.	Laboratory manufactured drugs.	Gives types of essential drugs.	Alcohol, smoking and drugs.	Self esteem	Acceptance	P.6	
15.	▪ Bathing daily/ regular brushing of teeth/ cutting finger nails short/ trimming hair.	States ways of keeping our body clean.	Human body and health.	Self awareness	Care	P.2	
16.	▪ Duck billed platypus/ spinny ant eater.	Names mammals that lay eggs.	Classification of animals.	Decision making	Responsibility	P.6	
17.	▪ To keep it open all the time/ to prevent the trachea from collapsing inside.	Gives reasons why the trachea is made of ring of cartilage.	Respiratory system.	Creative thinking	Concern	P.6	
18.	▪ Helps a farmer to dry harvested crops.	Gives uses of sun to a crop farmer.	Air and the sun.	Problem solving	Care	P.1	
19.	▪ Free range system.	Names systems of poultry keeping.	Poultry keeping	Creative thinking	Love	P.1	
20.	▪ Have air spaces inside them which enables them to float on water/ they are light with water proof pericaps.	Mentions how coconuts are adapted to their mode of dispersal.	Classification of plants.	Critical thinking	Acceptance	P.1	
21.	▪ Matter occupies space/ matter has weight/ matter expands when heated/ matter contract when cooled.	States any one property of matter.	Matter and energy.	Decision making	Confidence	P.1	
22.	▪ To drop carbon dioxide and pick oxygen.	Gives reasons why blood is pumped to the lungs.	Circulatory system.	Coping with emotions	Appreciation	P.1	
23.	▪ Use of umbrellas/ use of gum boots/ use of rain coats.	Gives ways of managing rainy weather.	Weather	Decision making	Concern	P.1	
24.	▪ To make them easy to handle/ to prevent unnecessary mating/ to make them grow fat/ to prevent in breeding.	States reasons why farmers castrate animals.	Cattle keeping	Creative thinking	Appreciation	P.1	

THE PRIME P.6 INTEGRATED SOURCE OF END-OF-TERM

	- Kiwi/ Emu/ ostrich/ penguins/ rhino.	Gives examples of flightless birds.	Classification of animals.	Critical thinking
26	▪ Walking short distances instead of driving, using public transport instead of personal cars, using petrol sparingly.	States ways of saving petroleum as a non - renewable resource.	Resources	Empathy
27	▪ Produces bile that has salts which break down fats into small droplets.	Gives importance of live during digestion.	Digestive system	Creative thinking
28	▪ Evaporation/ condensation.	Mentions physical process that help in formation of rainfall.	Changes in environment.	Self esteem
29	The lungs expand.	States what happens to lungs during breathing.	Circulatory system	Critical thinking
30	▪ They amplify sound vibrations/ they transmit sound vibrations from middle ear to inner ear.	Gives importance of ossicles in the ear.	Sound energy	Decision making
31	▪ Wearing masks/ regular washing of hands/ sanitizing the hands/ observing social distance/ avoid shaking of hands while greeting.	States ways of preventing covid - 19	Covid - 19	Self awareness
32	▪ Boiling/ frying/ steaming/ smoking/ mingling/ roasting.	Gives methods of preparing food at home.	Our food	Self esteem
33	▪ Pneumonia/ Coccidiosis.	Names diseases that affect both poultry and rabbits.	Poultry keeping	Creative thinking
34	▪ Causes still birth/ causes premature birth/ causes miscarriage/ causes under weight babies.	Gives effects of smoking to a pregnant woman.	Alcohol, smoking and drugs.	Self awareness
35	▪ Making mats/ hats/ bags.	States uses of palm leaves to people.	Basic technology	Creative thinking
36	▪ Swollen face/ sore throat/ swelling of salivary gland/ difficult to open the mouth.	Gives any one sign of mumps in human beings.	Mumps	Self awareness
37	▪ Keep the body warm/ protects the head from strong sunlight rays/ regulates body temperature.	State the importance of hair on human body.	Human body.	Critical thinking
38	▪ A coin is more dense than water/ a coin is denser than water.	Gives a reason why objects sink in water.	Measurements	Empathy
39	▪ They germinate and form pollen tubes.	States what happens to the pollen grains as they land on the stigma.	Classification of plants.	Decision making
40	▪ Chinchilla/ Rex/ Newzealand/ Californian/ Ear lop.	Names any example of exotic breeds of rabbits.	Animal life (rabbits)	Creative thinking

Section B (60 Marks)

