



THE PRIME EXAMINATIONS 2024

P.7 BEGINNING OF TERM II

INTEGRATED SCIENCE

Time allowed 2 hours 15 minutes

INDEX NO:

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Candidate's Name:.....

Candidate's Signature:.....

School:

District ID No.:

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. The paper has 7 printed pages.
3. Answer all questions. All answers 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 ink. Any work written in pencil other than graphs and diagrams will not be marked.
5. Unnecessary changes in your work and handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in the table indicated "For Examiners' use only", and those boxes inside the question paper.

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)

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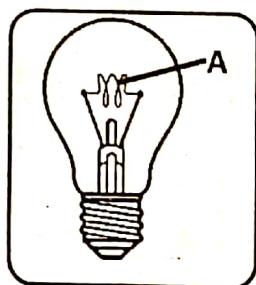
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Turn Over

Section A (40 Marks)

1. Name any one mineral salt that is needed in our bodies for strengthening bones.
2. Apart from alcohol, give one other example of a thermometric liquid.
3. How is *rusting* similar to *germination* in the way they occur?
4. Which piece of advice can you give to a woman whose child has taken rat poison?
5. Give any one way how proper chewing of food can be a good eating habit.

The diagram below shows an electric bulb. Study it carefully to answer questions 6 and 7.



6. Why is part labelled A from the diagram above coiled?
7. State the energy changes that occur in the above electric bulb when in use.
8. How does mulching help to preserve soil moisture?
9. Name the main product farmers get from merino sheep.
10. Give the functional difference between *cotyledons of maize* and *beans* during germination.

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11. Apart from toe pecking, give one other example of cannibalism in poultry.

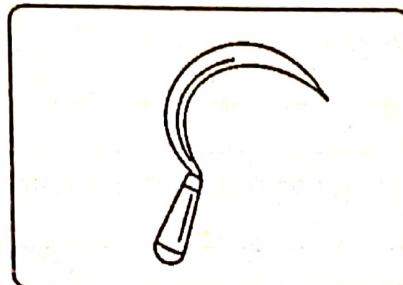
12. Give the use of the black lining found in solar dryers.

13. State any one way how proper disposal of rubbish prevents the spread of diarrhoeal disease in a home.

14. How can community members prevent drought in an area?

15. Mention one infectious disease that attacks the muscular - skeletal system.

The diagram below shows a garden tool. Study and use it to answer questions 16 and 17 correctly.



16. Name the garden tool shown in the diagram above.

17. How is the garden tool named in (16) above useful to cattle farmers?

18. Write any one example of a PIASCY message.

19. How are petals useful to a flower?

20. Why is it not advisable to put out petrol fire using water?

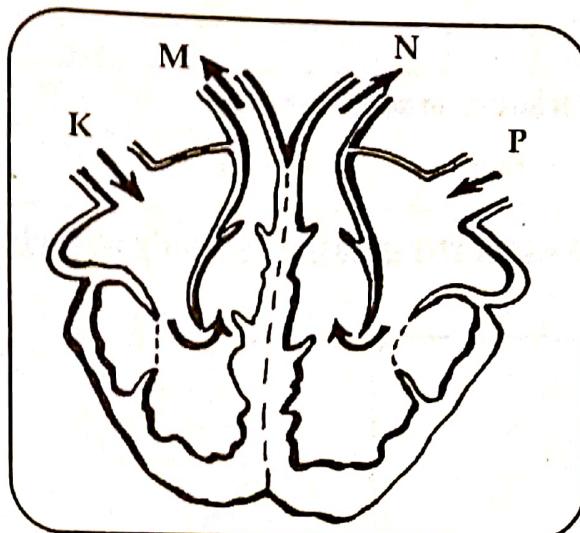
21. Write one example of wood fuel commonly used in homes.

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- WARNING: Not to be reproduced electronically!!**
22. State the importance of the liver during the process of digestion of fats.
23. Give any one method of making alcohol.
24. State one similarity between *birds* and *reptiles* in terms of reproduction.
25. Which part of the skeleton protects the brain?
26. State the property of air used when inflating a tyre.
27. Give one use of electricity at home.
28. Give one danger of swamp drainage to the environment.
29. Name the type of fracture that is very common among young children.
30. Why should one first wash hands with soap and clean water before making O.R.S?
31. In which way are banana crops propagated?
32. State the reason why a space is left in a bottle when packaging beverages.
33. Name any one bacterial disease that attacks cattle.
34. How does hookworm infestation cause anaemia?

42. (a) Mention any two examples of appliances that operate using electricity at home.
(i) _____ (ii) _____
(b) State two advantages of using electricity.
(i) _____
(ii) _____

43. The diagram below shows a human heart. Study it carefully and use it to answer the questions that follow.



(a) Identify the blood vessels marked K and P from the diagram above.

(i) K _____ (ii) P _____

(b) Give the function of blood vessel M in the human body.

(c) State one health practice that helps to maintain the above organ in a good working condition.

44. (a) Apart from carrots, mention two examples of root tubers.

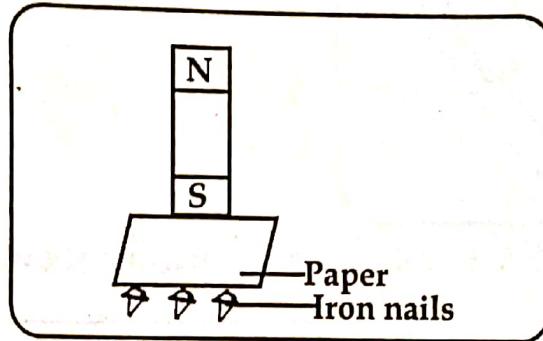
(i) _____ (ii) _____

(b) Which vitamin do we get from eating carrots?

(c) State one reason for washing carrots before eating when raw.

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35. State one method of controlling weeds in the garden.
36. Why is biogas digester sealed tightly when making biogas?
37. Apart from introducing fish in ponds, how else can we prevent the breeding of Mosquitoes.
38. Name the method of heat transfer in solid metals.

The diagram below shows a property of magnets. Study it carefully to answer questions 39 and 40.



39. Identify the property of magnets shown above.

40. State any one application of the above property of magnets.

Section B (60 Marks)

41. (a) Name the best type of soil used for the following purposes.

(i) Making glasses

(ii) Growing crops

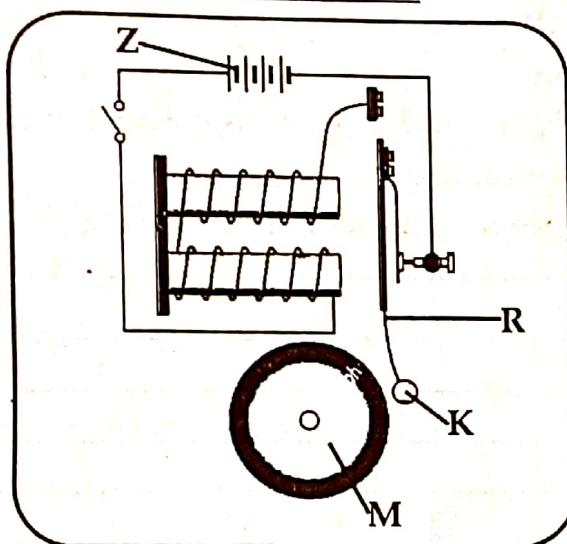
- (b) Give any two ways of improving soil fertility in the environment.

(i) _____
(ii) _____

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45. (a) Give any two causes of road traffic accidents.
(i) _____
(ii) _____
- (b) State any one reason for giving first aid to accident victims.

- (c) How is surgical spirit important in giving first aid to a victim with a cut on the skin?

46. The diagram below shows an electric bell. Study it carefully and use it to answer the questions that follow.



- (a) Identify the parts labelled M and Z above.

(i) M _____ (ii) Z _____

- (b) State the function of part K on an electric bell.
- _____

- (c) Which form of energy is produced by an electric bell in use?
- _____

47. (a) Give the meaning of the following physical processes;

(i) Evaporation.

(ii) Condensation

(b) Mention two factors that affect the rate of evaporation.

- (i) _____
(ii) _____

48. (a) Identify the disease spread by the following vectors.

- (i) Rabid dogs _____

- (ii) Infected female anopheles mosquito _____

(b) State the reason for carrying out the following health practices.

- (i) Slashing tall grass in the compound.

- (ii) Draining still water in the compound.

49. Match the items in A to those in B correctly as used in drugs.

(i) Drug abuse	Written information about how to use a particular drug.
(ii) Drug misuse	Relying on drugs for body functioning.
(iii) Drug Prescription	Harmful use of a drug.
(iv) Drug dependency	Improper administration of drugs.

(i) Drug abuse. _____

(ii) Drug misuse. _____

(iii) Drug Prescription _____

(iv) Drug dependency _____

50. (a) State one way how the following fungi are useful in industries.

(i) Yeast

(ii) Penicillium

(b) Give one danger of fungi in the environment.

(c) How do fungi reproduce?

51. (a) Write any two examples of long bones found in the lower limbs.

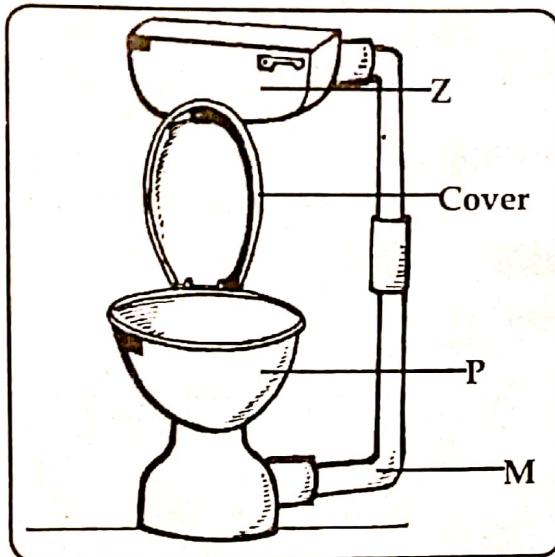
(i) _____ (ii) _____

(b) Which movable joint is found in the following body parts;

(i) Neck _____

(ii) Knee _____

52. The diagram below shows a type of toilet. Use it to answer questions that follow.



(a) Name the parts marked Z and M.

(i) Z _____ (ii) M _____

(b) State the use of part Z on the above type of toilet.

(c) Use an arrow and letter R to show the part where the user sits when using the above toilet.

53. (a) Write down any two breeds of goats kept for milk production.

(i) _____

(ii) _____

(b) Give one way how goat farmers can increase milk production in a lactating nanny.

(c) State any one reason why some farmers prefer rearing goats to cattle.

54. (a) Give a reason why a tadpole dies shortly after being removed from water.

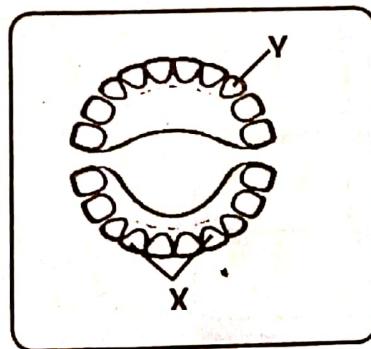
(b) How are fish similar to tadpoles in terms of breathing?

(c) Give any two uses of fish to man.

(i) _____

(ii) _____

55. The diagram below shows dentition of a human being. Study and use it to answer questions that follow



(a) Name the set of teeth shown in the diagram above.

(b) Identify the type of teeth labelled with letter X above.

(c) State the use of tooth Y from the diagram above.

(d) Give any one way of caring for the teeth.

24	▪ Both birds and reptiles undergo internal reproduction/ both birds and reptiles reproduce by laying eggs.	Discusses the characteristics of birds and reptiles.
25	▪ The skull/ cranium.	Discusses the roles of the skeleton
26	Air exerts pressure.	Experiments various properties of air.
27	▪ Electricity is used in cooking/ ironing/ running electrical appliances.	Discusses the uses of electricity at home.
28	Swamp drainage leads to death of aquatic animals/ drought.	Analyses the effects of swamp drainage.
29	▪ Green stick fracture.	Describes fractures.
30	▪ To prevent contamination of ORS.	Demonstrates making ORS
31	By use of suckers.	Discusses how plants are propagated.
32	▪ To allow expansion of the substance inside when frozen.	Experiments the effects of heat gain.
33	▪ Tuberculosis/ pneumonia/ coccidiosis/ East coast fever/ Nagana.	Discusses how to control different cattle diseases.
34	▪ Hook worms feed on blood in the host leading to anaemia.	Mentions dangers of worms in the body.
35	▪ By digging/ by uprooting/ mulching/ crop rotation/ slashing spraying using herbicides.	Discusses ways of controlling weeds in the garden.
36	▪ To prevent entry of oxygen.	Experiments the production of biogas.
37	▪ By draining stagnant water/ by clearing tall bush around our homes/ by oiling stagnant water.	Discusses practices done to control mosquitoes.
38	Conduction.	Describes heat transfer.
39	▪ Magnetism can pass through non - magnetic substances.	Demonstrates the properties of magnets.
40	▪ It is used in resetting a six's thermometer/ it is used in separating mixtures/ it is used by doctor to remove iron bits from the body.	

Section B (60)

41.	(a) (i) making glasses - sand soil (ii) growing crops - loam soil (b) By mulching/ manuring/ crop rotation	Describes different uses of soil and ways of making soil fertile.
42	(a) Electric kettle/ flat iron/ television/ electric cooker/ blender (b) It is quick/ does not pollute air.	Discusses appliances that use electricity at home.
43	(a) (i) K - Vena cava (ii) P - Pulmonary vein. (b) Blood vessel M transports deoxygenated blood to the lungs. (c) Doing regular physical exercise/ feeding on a balanced diet.	Draws the structure of a human heart.
44	(a) cassava/ sweet potatoes/ turnips/ beetroot/ white yams. (b) Vitamin A. (c) To remove germs.	Identifies root tubers.
45	(a) Speeding/ overloading/ bad roads/ driving when drunk. (b) To save life/ stop bleeding/ reduce pain. (c) For cleaning wounds.	Discusses the causes of road accidents.
46	(a) (i) M - Gong (ii) Z - Dry cells (b) Part K hits the gong to produce sound. (c) Sound energy.	Draws and labels the parts of an electric bell.

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Section A (40 M)

NO	Answer	Competence
1.	▪ Calcium/ phosphorus.	Describes ways of caring for bones.
2	▪ Mercury.	Draws clinical thermometer and labels the parts.
3	▪ Both rusting and germination need oxygen to occur/both rusting and germination need water to occur.	Describes chemical and biological changes.
4	▪ To give the poison victim plenty of water to dilute the poison.	Gives the first aid for rat poison.
5	▪ Proper chewing of food prevents indigestion/ constipation.	States the reason for proper chewing of food.
6	▪ To increase electrical resistance.	Gives the reason why the filament of the bulb is coiled.
7	▪ Electrical energy changes to heat then light energy.	States the energy changes that take place in a working electric bulb.
8	▪ The mulches reduce evaporation of water from the soil.	Describes mulching as a crop growing practice.
9	▪ Wool/ mutton(meat)	Names products farmers get from merino sheep.
10	▪ The cotyledon of the maize grain supplies dissolved food to the embryo while cotyledons of a bean seed store food for the embryo.	Gives functional difference between cotyledon of the maize grain and the cotyledon of the bean seed.
11	▪ Feather pecking/ vent pecking/ skin pecking.	Mentions examples of cannibalism.
12	▪ It absorbs heat from the sun used for drying food items.	States the use of a black lining of a solar dryer.
13	▪ Proper disposal of rubbish keeps away vectors that spread germs which cause diseases.	States the importance of proper disposal of rubbish.
14	▪ By planting trees/ afforestation/ reafforestation.	Gives ways how community prevent drought in an area.
15	▪ Polio/ Leprosy/ Arthritis.	Discusses diseases of the muscular-skeletal system.
16	▪ Sickle.	Identifies a sickle.
17	▪ A sickle is used for harvesting cereals/cutting grass.	
18	▪ Virginity is healthy/ AIDS has no cure/ do not accept gifts from strangers.	States PIASCY messages.
19	▪ Petals attract pollinators.	Discusses the roles of each part of a flower.
20	Petrol floats on water and burning continues,	Describes floating objects.
21	▪ Charcoal/ sand dust/ firewood/ wood shavings.	Mentions examples of wood fuels.
22	▪ The liver produces bile juice that breaks down fats/ the liver produces bile juice that emulsifies fats.	Describes the process of digestion.
23	▪ Fermentation/ distillation.	Discusses the methods of making alcohol.

47	(a) (i) Evaporation is the process by which liquids/water changes to gases/vapour. (ii) Condensation is the process by which gases/vapour changes to liquids/water. (b) heat/wind/ temperature.	Describes evaporation and condensation.
48	(a)(i) Rabid dogs - rabies (ii) infected female anopheles mosquito - malaria. (b) (i) slashing tall grass in the compound - to remove/ destroy hiding places for mosquitoes. (ii) draining still water in the compound - to remove/destroy breeding places for mosquitoes.	Discusses the measures undertaken to vector diseases.
49	(i) Drug abuse - Harmful use of drugs. (ii) Drug misuse - Improper administration of drugs. (iii) Drug prescription - Written information about how to use a particular drug. (iv) Drug dependency - Relying on drugs for body functioning.	Discusses the terms used in drugs.
50	(a) (i) Yeast is used in making alcohol. (ii) Penicillium is used in making drugs/antibiotics/ medicine. (b) Some fungi cause diseases/ cause food contamination. (c) By use of spores.	Describes the uses and dangers of fungi.
51	(a) femur/tibia/fibula. (b) (i) Neck - pivot joint. (ii) Knee - hinge joint	Mentions long bones in lower limbs.
52	(a) (i) Z - water tank (ii) M - Septic pipe. (b) Part Z stores water used for flushing the wastes in toilet after use. (c)	Discusses the parts of a toilet.
53	(a) Toggenburg/Saanen goats/ Alpine goats. (b) By proper feeding of lactating goats/ giving the lactating goat plenty of water to drink. (c) Goats are easier to feed than cattle/ goats breed faster than cattle.	Discusses the practices involved in goat keeping.
54	(a) Due to lack of dissolved oxygen on land/gills can't trap dry oxygen on land. (b) Both fish and tadpoles use gills for breathing. (c) Fish is eaten as food by man/ fish is sold to get income.	Discusses the similarity between fish and tadpoles in terms of breathing.
55	(a) Milk teeth. (b) incisor/ incisor teeth. (c) Tooth Y is used for tearing food. (d) Brushing teeth after every meal/ eating food rich in a balanced diet/ avoid biting bad things.	