



THE PRIME EXAMINATIONS 2024

P.7 MID TERM II

INTEGRATED SCIENCE

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Time allowed 2 hours 15 minutes

INDEX NO:

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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.

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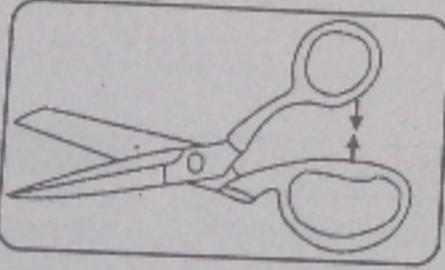
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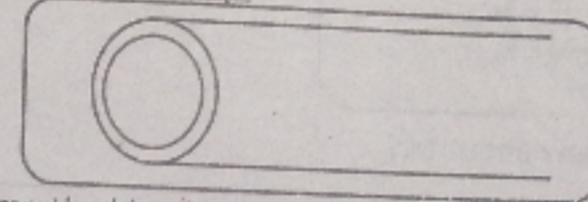
FOR EXAMINERS' USE ONLY		
QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

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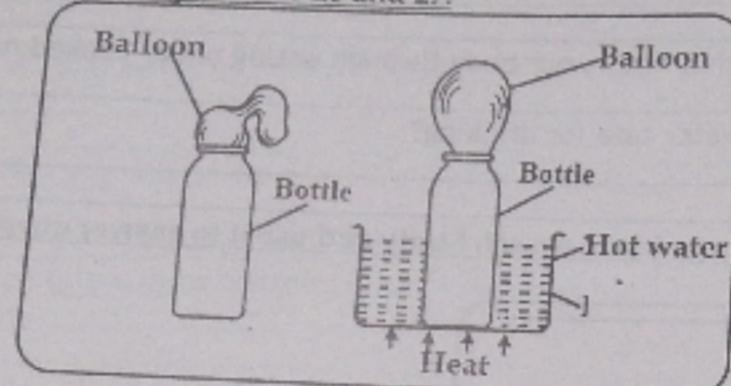
Consultant
Integrated Science Department (PEC)

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- Section A (40 Marks)**
- Name the disease vector that lays eggs in still water.
 - How do ball bearings reduce friction in machines?
 - In which one way is the process of excretion important to the body?
 - Mention one way of conserving plant resources in the environment.
 - Why does blood go to the kidneys before circulating to other parts of the body?
- The diagram below shows an example of a simple machine. Study and use it to answer questions 6 and 7.
- 
- To which class of levers would you classify the simple machine above?
 - Use an arrow and letter V to show the turning point of the above simple machine.
 - Give the reason why we exhale less percentage of oxygen than the one we breathe in.
 - Mention one indicator of poor personal hygiene.
 - How is the synovial fluid found in the joint similar to oil used in machines in terms of their function?
 - Give the reason why a freely suspended magnet rests in the North to South direction.
 - State the importance of wire mesh on a hutch.

- How are birds of prey adapted to their mode of feeding in the environment?
 - Name the type of worm that enters our body through eating under cooked meat.
 - How does boiling make water safe for drinking?
- The diagram below shows a blood vessel. Study and use it to answer questions 16 and 17 correctly.
- 
- Name the blood vessel shown above.
 - Which type of blood is transported by the blood vessel named in (16) above?
 - State one condition that may make a bulb fail to work when the switch is closed.
 - In which one way are magnets useful to doctors in performing their daily work?
 - Give one health benefit of drinking enough water after having a meal.
 - Why are triceps and biceps called voluntary muscles?
 - Give a functional difference between ventilators and windows on a living house.
 - Name the type of pollination carried out by bees in the environment.
 - Give the importance of a strip cup to cattle keepers.
 - Why are green stick fractures common in babies?

The experiment below was carried out by the pupils of P.5 class. Study and use it to answer questions 26 and 27.



26. What does the experiment above show about air?

27. Give the importance of heat in experiment above.

28. State the first aid for burns and scalds.

29. Give any one advantage of seed and fruit dispersal.

30. Name the body organ responsible for removing urea and uric acid in blood.

31. Give any one way of preventing the spread of ringworm infection.

32. Apart from Plymouth rock, mention one other breed of chicken kept for meat production.

33. Name the type of pulley used when hoisting a flag on a pole.

34. Give any one activity involved in water and environmental sanitation.

The diagram below shows a man caring for his crops in the garden. Study and use it to answer questions 35 and 36 correctly.



35. Name the crop growing practice carried out by the man in the diagram above.

36. How useful is the above practice to crops?

37. Give the reason for grooming our long fingernails short.

38. Name the method of making alcohol that involves the use of yeast.

39. State one way of keeping our kidneys in a good working condition.

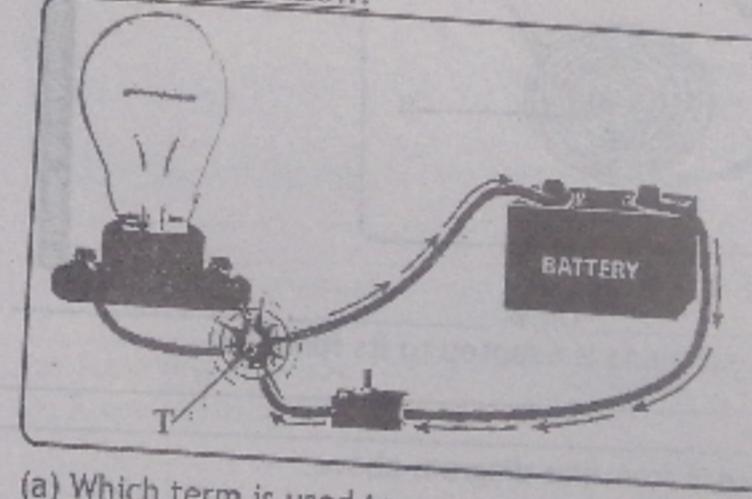
40. How does an inclined plane as a machine simplify work?

- Section B (60 Marks).**
41. (a) Give the meaning of the term food preservation.

 - (b) Mention any two traditional ways of preserving food at home.
(i) _____ (ii) _____

 - (c) Give one importance of preserving food at home.

42. The diagram below is about an electric circuit. Study and use it to answer questions that follow.



- (a) Which term is used to mean the condition that occurred in the part marked T in the diagram?

- (b) Give the main cause of the condition named in (a) above.

- (c) What happened to the bulb when the above condition occurred?

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- (d) Give one way of preventing the condition shown at T from happening in a circuit.
43. (a) Mention any two waste materials removed by the skin in the body.
 (i) _____ (ii) _____
 (b) State any two ways how the human skin can regulate the body temperature on hot days.
 (i) _____ (ii) _____
44. (a) How is a first box differ from first kit?
 (b) Give the reason for tying splints around the broken bone in the body.
 (c) State two signs of compound fracture.
 (i) _____ (ii) _____
45. The diagram below of a human ear. Study and use it to answer questions that follow.

 (a) Identify the parts marked A and B.
 (ii) A: _____ (ii) B: _____
 (b) Give any one way how the ear pinna is adapted to its function.
 (c) State the use of part marked B from the diagram above.
46. (a) Why are third class levers referred to as distance multipliers?
 (b) Give any one force that affects the mechanical advantage of machines.

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- (c) To which class of simple machines would you group the following:
 (i) A knife : _____
 (ii) Seesaw : _____
47. (a) Mention two examples of long bones found in the lower limbs of human beings.
 (i) _____ (ii) _____
 (b) Which disease of the skeleton is characterized by bow shaped legs?

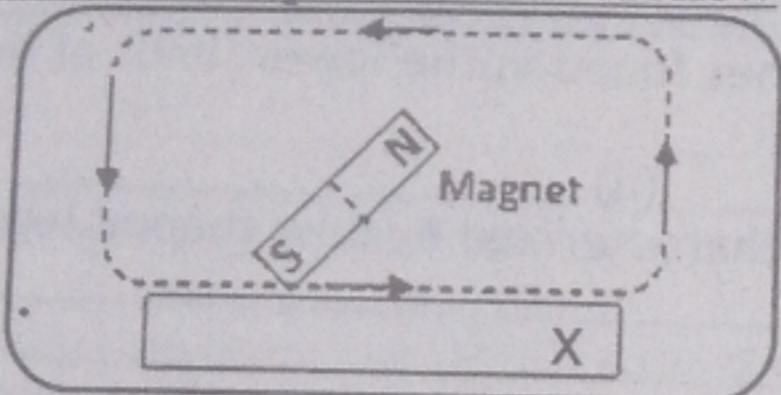
- (c) Name the best way of preventing the disease named in 47(b) above.

48. The diagram below is about digestion of food, study the table below and complete it correctly.
- | Site | Digestive juice | Enzyme |
|-----------|-----------------|-------------------------------------|
| Mouth | Saliva | (a) _____ |
| (b) _____ | Gastric juice | Pepsin and Rennin |
| Pancreas | (c) _____ | Lipase, Trypsin, Pancreatic amylase |
| Liver | (d) _____ | No enzyme. |
49. (a) Give any two ways of preventing diseases without treatment at home.
 (i) _____ (ii) _____
 (b) Give any two activities done at home to keep the compound clean.
 (i) _____ (ii) _____
50. (a) Mention two forms of energy produced by burning wood.
 (i) _____ (ii) _____
 (b) Give one advantage of covering food while cooking.

- (c) How is the use of wood fuel affect the environment?
51. (a) State one way how the force of friction is useful to the following people.
 (i) A cook setting fire:
 (ii) A butcher:
 (b) Give any one way how a streamlined body is useful to a sunbird during flight.

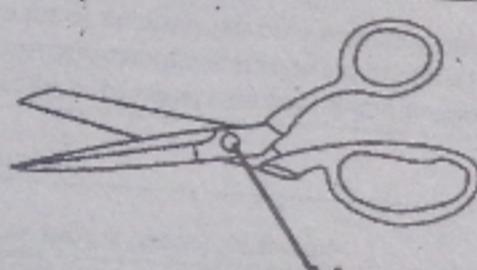
- (c) Why are tarmac roads constructed with rough surfaces?
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52. **The diagram below shows a method of making a temporary magnet. Study and use it to answer questions that follow.**



- (a) Name the method of making temporary magnets shown above.
(b) Which pole will X become after gaining magnetism?
(c) Apart from the method named in (a) above, mention one other method of making temporary magnets.
(d) How is a bar magnet important to a person using a six's thermometer?
53. (a) Write the term used to mean the following in bee keeping.
(i) *Selecting a suitable place to put bee hive.*
(ii) *Encouraging of bees to occupy an empty hive.*
(b) Give two uses of bees wax to man.
(i) _____
(ii) _____
54. (a) State any one way how prop roots are useful to a maize plant.
(b) Give any two uses of roots to people.
(i) _____
(ii) _____
(c) Name the food value got from eating soya beans.
55. (a) Apart from row planting, give one other method of planting crops.
(b) Give two advantages of row planting to a cassava farmer.
(i) _____
(ii) _____
(c) State any one reason why farmers are advised to carryout seed selection before planting.

THE PRIME P.7 INTEGRATED SCIENCE MID TERM II MARKING GUIDE 2024.

Section A (40 Marks)							
NO	Answer	Competence	Topic/Sub-topic/ Curr Pg.	Life skills	Values	Class	Level
1.	▪ Mosquitoes	Describes mosquitoes.	Disease vectors (P.37)	Environmental awareness	Logic	P.4	K
2	▪ By keeping moving parts of a machine separate.	Describes ways of reducing friction.	Simple machines and friction. (P.94)	Critical thinking	Logic	P.7	C
3	▪ It removes waste products(materials) from the body/ it removes toxic substances from the body.	Gives the importance of excretion to the body.	Excretory system (P.98)	Critical thinking	concern	P.7	C
4	▪ By afforestation/ by re-afforestation/ by using fuel saving stoves/ practicing of agroforestry.	States ways of conserving plants as a resource in the environment.	Energy resources in the environment. (P.90)	Problem solving, care	P.7	C	
5	▪ To be filtered.	States the reason why blood flows to the kidneys.	Excretory system. (P.98)	Effective communication	care	p.7	C
6	▪ First class levers.	Describes first class levers.	Simple machines and friction (P.94)	Critical thinking	logic	P.7	A
7							
8	▪ Most of it is used by the body during respiration	Gives the reason for exhaling less oxygen than the one we breathe in.	Respiratory system. (P.85)	Self-awareness	concern	P.6	C
9	▪ Bad body smell/tooth decay/ outbreak of skin diseases/ dirty clothes/ un combed hair.	States the dangers of poor personal hygiene.	Personal hygiene (P.25)	Critical thinking	Logic	P.4	K
10	▪ Both synovial fluid and oil are used to reduce friction.	States ways of reducing friction.	Musculoskeletal system. (P. 84)	Critical thinking	Logic	P.7	C
11	▪ The poles of a freely suspended magnet align with magnetic poles of the earth.	States the reason why a freely suspended magnet rests in the North-South direction	Electricity and magnetism. (P.86)	Critical thinking	logic	p.7	C
12	▪ Wire mesh is used for letting in and out air in the hutch.	States the use of wire mesh	Animal life. (P.22)	Problem solving	care	p.4	C
13	▪ They have strong sharp hooked beak for tearing their prey/ they have strong curved claws or talons for easy gripping/holding of their prey/ they have strong eye sight to spot their prey even at a distance.	States the adaptations of birds of prey.	Classification of animals. (P.73)	Problem solving	care	P.6	C
14	▪ Tapeworm	Identifies the worm that enter our body through eating under cooked meat.	Communicable diseases and worm infestation. (P.17)	Self-awareness	concern	P.4	K
15	▪ Boiling kills germs in water.	States ways of killing germs.	Sanitation (P.33)	Critical thinking	Logic	P.4	K
16	▪ Artery	Describes arteries	Circulatory system (P.80)	Critical thinking	Logic	P.6	A
17	▪ Oxygenated blood.	Mentions the kind of blood transported by arteries.					
18	▪ When the coiled filament has blown/ when short circuit has occurred/ when the bulb is not fixed properly.	Describes an electric bulb.	Electricity and magnetism (P.86)	Critical thinking	logic	P.7	C
19	▪ Magnets help doctors to remove magnetic foreign bodies from human eyes.	States importance of magnets.	Electricity and magnetism (P.88)	Problem solving	care	P.7	A
20	It prevents constipation/ it helps in food digestion.	Gives importance of water in the body.	Digestive system (P.53)	Problem solving	Care	P.5	C
21	▪ They work at our will.	Describes voluntary/skeletal muscles.	Musculoskeletal system (P.84)	Critical thinking	concern	P.7	K

22	* Ventilators let out warm air while windows let in fresh air	States the functional difference between ventilators and windows. Describes the types of pollination.	Heat energy. (P.33)	Creative thinking	logic	P.5	C
23	* Cross pollination.	Plant life (P.20)	Environmental awareness	logic	P.4	C	
24	* Strip cup is used for detecting mastitis in milk.	Cattle keeping (P.94)	Critical thinking	Logic	P.6	K	
25	* Babies have soft bones.	Musculoskeletal system. (P.84)	Critical thinking	Logic	P.7	C	
26	Gases expand when heated.	Heat energy (P.59)	Creative thinking	care	P.5	A	
27	* It heats the water to boil.	Gives the first aid for burns and scald.	Accidents and first. (P.92)	Problem solving	care	p.6	A
28	* Dipping/pouring clean cold water on the burnt part.	Describes the importance of fruit and seed dispersal.	Classification of plants. (P.75)	Critical thinking	Concern	p.6	A
29	* It prevents overcrowding/ enables plants to colonise new area/ enables farmers to get new species//minimizes the spread of diseases among overcrowded plants//it increases the chances of survival.	Importance of kidneys in the body.	Excretory system (P.99)	Environmental awareness	Logic	P.7	C
30	* Kidneys	States the ways of preventing ringworm.	Personal hygiene. (P.07)	Critical thinking	care	p.4	C
31	Avoid sharing clothes/ ironing clothes/ washing clothes	Mentions examples of broilers.	Keeping poultry and bees. (P.22)	Critical thinking	Concern	p.5	K
32	* Light Sussex/orpington/New Hampshire/Red Australorp.	Describes types of pulleys.	Simple machines and friction. (P.94)	Self-awareness	Concern	P.4	K
33	* Single fixed pulley	Discusses activities carried out in promoting water and sanitation	PHC. (P.48)	Problem solving	care	p.5	A
34	* Fencing water sources/draining stagnant water/proper disposal of rubbish//sweeping rubbish in a compound/ slashing tall grass in the compound/around water sources/proper use of latrines or toilets	Describes watering	Growing crops. (P.03)	Problem solving	care	p.4	A
35	* Watering crops	Gives the importance of grooming our finger nails short.	Personal hygiene. (P.26)	Problem solving	logic	P.4	C
36	* Helps the plant to get enough water/ prevents the plants/crops from drying/wilting.	Describes the methods of making alcohol.	Alcohol, drugs and smoking (P.85)	Critical thinking	Logic	P.4	C
37	* To destroy hiding places for germs.	Gives ways of keeping the kidneys in good working conditions.	Excretory system (P.99)	Creative thinking	concern	P.7	K
38	Fermentation.	Gives ways how an inclined plane simplify work.	Simple machines and friction (P.95)	Problem solving	Care	P.4	A
39	* Doing regular physical exercise/ avoid holding back urine for long time/drink boiled water/avoid taking a lot of salts/ avoid taking a lot of alcohol/ Eat on a balanced diet/ do not eat raw salt.	Discusses food preservation	Our food (P.27)	Critical thinking	Logic	P.4	K
40	* By reducing the effort required to move an object to climb from the lower level to the higher level.	Discusses short circuit.	Electricity and magnetism (P.86)	Creative thinking	Logic	P.7	A
41.	(a) Food preservation is the way of keeping food for long time without going bad. (b) salting/ smoking/sun drying/ refrigeration/ tinning/ canning. (c) To avoid wastage of food/ to prevent food from rotting.						
42	(a) Short circuit. (b) Due to contact of two or more bare/naked wires carrying electricity. (c) Bulb couldn't give out/produce light. (d) Avoid using uninsulated wires to conduct electricity.						

43	(a) water/salt/urea/lactic acid. (b) Through sweating// vasodilation.						
44	(a) First aid box is the tool where first aid equipment/tools are kept while first aid kit are items used when giving first aid. (b) To keep the broken bone in the right position. (c) Bleeding around the injured part/ swelling around the injured part/ failure to move the injured part. B - Cochlea	Discusses how the skin regulates body temperature. Discusses the parts of the human ear.	Excretory system. (P.99) Accidents poisoning and first aid. (P.21)	Self-awareness Environmental awareness	Care logic	p.7 P.4	C C
45	(a) (i) A - Auditory canal (b) The ear pinna is made up of cartilage that keeps it upright. (c) Part B converts sound vibrations into impulses/nerve messages.	Describes the human ear	Sound energy. (P. 76)	Problem solving	Concern	P.6	A
46	(a) The load in third class levers moves through a shorter distance (b) Friction force// gravitational force. (c) i) wedges ii) levers.	Describes levers	Simple machines and friction. (P.95)	Critical thinking	logic	p.7	C
47	(a) femur bone/ fibula/ tibia (b) rickets. (c) Eating a balanced diet/ eating food rich in vitamin D	Mentions examples long bones.	Musculoskeletal system (P.84)	Creative thinking	Logic	P.6	K
48	(a) salivary amylase (b) Stomach (c) pancreatic juice (d) bile juice	Identifies digestion juice	Digestive system. (P.28)	Critical thinking	logic	P.5	C
49	(a) Proper disposal of human wastes/ draining stagnant water/ sleeping under a treated mosquito net/ washing hands before eating food/ serving food in clean containers/ brushing teeth every after a meal. (b) Sweeping rubbish in the compound/ burning rubbish in the compound/ draining stagnant water in the compound/ slashing tall grass in the compound.	Discusses ways of preventing the outbreak of diseases without treatment.	Sanitation (P.33)	Problem solving	Care	P.4	C
50	(a) Heat energy/ light energy (b) To preserve heat to conserve wood fuel. (c) It pollutes the environment/ it leads to deforestation.	Discusses wood fuel as an energy resource.	Energy resources in the environment (P.90)	Critical thinking	Appreciation	P.7	C
51	(a) (i) A cook setting fire - friction enables a cook to light fire/ friction enables a cook to light match stick on the match box. (ii) A butcher - friction helps a butcher to sharpen his tools for cutting meat/beef. (b) Streamlined body helps a sunbird to overcome friction in air. (c) To increase friction to prevent sliding.	Discusses uses of friction in our daily life.	Simple machine and friction. (P.96)	Critical thinking	Appreciation	P.7	C
52	(a) stroking method. (b) North pole. (c) Induction method/ electrical method. (d) A bar magnet is used for resetting the six's thermometer.	Describes methods of making temporary magnets	Electricity and magnetism. (P.86)	Critical thinking	Logic	P.7	A
53	(a) (i) siting a bee hive (ii) stocking a bee hive. (b) Bee wax is used to make candle wax/ bees wax is used to make cosmetics/ bee wax is used to make shoe polish/ bee wax is used to flour polish.	Discusses ways of caring for bees.	Keeping poultry and bees. (P.47)	Problem solving	Care	P.5	C
54	(a) Prop roots are to provide extra support to a maize plant.	Describes roots	Plant life. (P. 01)	Environmental awareness	Appreciation	p.4	C

	(b) Some storage roots are eaten as food/ some roots are used as herbal medicine// some roots are used as firewood/ some roots are sold to get income. (c) proteins.						
55	(a) broadcasting method. (b) Row planting eases weeding/ eases harvesting/ eases spraying. (c) To prevent time wastage/ land wastage/ seed dormancy.	Describes row planting	Growing crops. (P. 03)	Critical thinking	concern	P.4	C