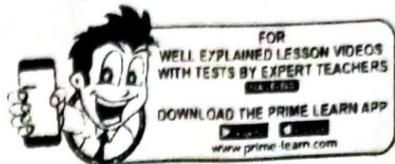


Prime THE PRIME EXAMINATIONS 2024
consult

P.6 END OF TERM II

INTEGRATED SCIENCE (New Curriculum)

Time allocated 2 hours 15 minutes



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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)

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Turn Over

Section A. (40 Marks)

1. Name the group of living things which uses chlorophyll and sunlight to make their own food.

2. Apart from machine milking, give one other type of milking in cattle keeping.

3. Give any one reason for proper boiling of cassava before eating.

4. How do cattle farmers obtain hybrids?

5. The diagram below is of a method of artificial vegetative propagation. Study and use it to answer question 5.



5. Which method of artificial vegetative propagation is shown in the diagram above?
6. Name the vector that spreads malaria to people.
7. What happens to the lungs during inhalation?
8. Why is the sun grouped among renewable resources?
9. Which element of PHC helps to control deficiency diseases?
10. Where does respiration take place in the body of human beings?
11. How is washing of hands before milking important to man?
12. Which element of weather favours crop growing?
13. How are rodents similar to scorpions in terms of reproduction?
14. Which immunizable disease has the same signs like AIDS?

The diagram below is of a human organ. Study and use it to answer questions 15 and 16 correctly.

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For more information about the study, please contact Dr. John Smith at (555) 123-4567 or via email at john.smith@researchinstitute.org.

52. (a) How are coniferous plants similar to flowering plants in terms of production?

(b) Mention two examples of coniferous plants.

(i) _____

(ii) _____

(c) How do algae reproduce?

53. (a) Identify the immunisable disease with the following signs.

(i) chronic cough, sweating at night and loss of body weight.

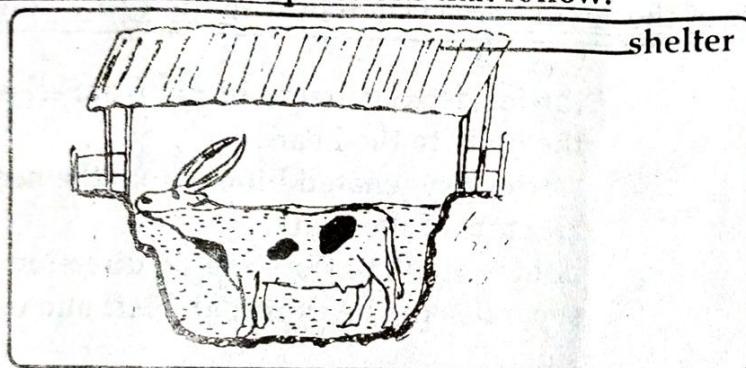
(ii) stiff muscles and muscle spasms when touched.

(b) Give any two roles of the community in promoting immunization.

(i) _____

(ii) _____

54. The diagram below shows a practice carried out in cattle management. Study and use it to answer questions that follow.



(a) Which cattle management practice is shown above?

(b) Why is the above structure made with a shelter?

(c) Name the chemicals used in the practice shown in the diagram above.

(d) Write down any one parasite prevented by using the above practice.

55. (a) Which type of teeth is used for;

(i) cutting food

(ii) tearing food

(b) Name two diseases which affect the teeth.

(i) _____ (ii) _____

THE PRIME P.6 INTEGRATED SCIENCE Nine TERM II MARKING GUIDE 2024

Section A (40 Marks)

NO	Topic	Competence	Topic/Sub-Topic Curri Pg.	Lif-skills	Value	C	I
1.	■ Plants	Identifies living organisms that use chlorophyll to make their own food.	Classification of plants. P.76	Creative thinking	Concern	P.6	K
2	■ Hand milking	Mentions the methods of milking cows.	Cattle keeping P.79	Problem solving	Love	P.6	K
3	■ To make it soft/ to kill germs on cassava/ to make it easy for digestion.	Discusses the reasons for steaming cassava before eating.	Our food P.9	Decision making	Responsibility	P.4	A
4	■ By mating pure local breeds with an exotic breed.	Discuss the way of obtain crossbreeds in cattle.	Keeping cattle P.79	Self awareness	Acceptance	P.6	C
5	■ Layering	Identifies layering	Classification of plants P.76	Problem solving	Confidence	P.6	C
6	■ Infected anopheles mosquito.	Names the vector that spreads malaria.	The human body and health P.23	Creative thinking	Concern	P.1	K
7	■ The lungs and breathing.	Gives that happens to lungs when breathing in.	Respiratory system P.87	Problem solving	Responsibility	P.6	C
8	■ The sun can be replaced naturally after use.	States the reason why sun is a renewable resource.	Resources in the environment P.83	Decision making	Acceptance	P.6	C
9	■ Food and nutrition	Names the elements of PHC that controls deficiency diseases.	PHC P.56	Creative thinking	Making right choice.	P.5	K
10	■ Body cells	Names the body part where respiration take place.	Respiratory system P.87	Self awareness	Concern	P.6	K
11	■ Prevents contamination of the milk.	States the uses of washing hands before milking.	Keeping cattle P.79	Critical thinking	Making right decision.	P.6	A
12	■ Rainfall	Mention the element of weaker that favours planting.	Weather changes around us P.5	Self awareness	Acceptance	P.4	K
13	■ Both rodents and scorpions reproduce by giving birth to live young ones.	Compares rodents to scorpions in terms of reproduction.	Classification of animals P.59	Creative thinking	Concern	P.6	C
14	Tuberculosis	Names the disease with similar signs of AIDS.	Immunization P.33	Self esteem	Acceptance	P.5	K
15	■ To pump blood to all body parts.	Give the use of the heart.	Major body organs P.11	Self awareness	Care	P.4	A
16	■ Oxygenated blood		Decision making	Responsibility			
17	■ Mushrooms do not have chlorophyll while plants have chlorophyll.	States the reason why mushrooms are not plants.	Classification of plants P.76	Creative thinking	Concern	P.6	C
18	■ It kills germs on the thermometer.	Give the use of sterilizing the clinical thermometer.	Heat energy P.37	Problem solving	Care	P.5	A
-19	■ The cow becomes restless/ the cow mounts other cows/ it allows other animals to mount on it/ it urinates frequently/ the vulva swells and turns reddish/ whitish discharge from the vulva/ loss of appetite.	Gives signs of a cow on heat.	Keeping cattle P.79	Creative thinking	Love	P.6	C

		Mentions plant fibres.	Resources in the environment p.83	Critical thinking	Acceptance	P	K
		Describes the characteristics of sand soil.	Our environment in our sub-county/ division p.18	Decision making	Confidence	P-3	K
21	• Sand soil		Differentiates between a breed and a type of cattle.	Keeping cattle p.79	Coping with emotions	Appreciation	P-2 C
22	• A breed of cattle is a class of cattle with similar characteristics while a type of cattle is a class of cattle kept for a specific purpose.		States how we can vary the pitch of a bow harp.	Sound energy p.51	Decision making	Concern	P-5 C
23	• By tightening or loosening the strings using the tuning pegs.		Gives the meaning of personal hygiene	Personal hygiene p.7	Creative thinking	Appreciation	P-4 C
24	• Personal hygiene is the general cleanliness of our bodies and the things we use.						
25	• Mulches reduce the speed of fast flowing water in the garden.		Discusses the importance of mulching land.	Growing crops p.44	Critical thinking	Love	P-5 A
26	• Tethering grazing.			Keeping cattle p.79	Empathy	Making decision	P-5 A
27	• Tethering is cheap to a farmer/ animals do not move long distances/ no fencing is required/ it requires a small piece of land / it controls disputes among neighbours/ the animal is able to choose the best pasture/ animals do not get a stray/ animals do not require much attention.				Creative thinking	Concern	A
28	• To prevent deficiency diseases/ to enable the baby get iron/ to supplement on breast milk/ to enable the baby to get more nutrients for proper body growth.		Gives the reason for weaning babies at 6 months.	Food and nutrition p.33	Self esteem	Making decision	P-5 C
29	Proper chewing of food/ avoid eating while talking/ avoid moving while eating.		States ways of preventing choking.	Respiratory system p.87	Critical thinking	Confidence	P-5 A
30	• Name of the drug/ the dosage/ the disease it cures/ time of taking the drug.		Identifies the information found on prescribed drugs.	Alcohol/ smoking and drugs in society p.71	Decision making	Love	P-5 K
31	• To maintain soil fertility/ to fix nitrogen in form of nitrates in sand soil.		States the reason for including legumes in crop rotation.	Growing crops p.3	Self awareness	Care	P-4 A
32	• Mastitis		Names the disease that affects the udder of cattle.	Keeping cattle p.79	Self esteem	Responsibility	P-6 K
33	• To reduce viscosity (friction) while swimming in water.		Gives the reason why scales of the fish are arranged while facing backward.	Classification of animals p.59	Creative thinking	Concern	P-5 C
34	• The soil is used as the habitat for white ants.		States the use of soil to white ants.	Animals in our sub-county/ division p.25	Self awareness	Concern	P-3 C
35	• They let out water.		States the use of heat transfer by conduction and convection.	Heat energy p.40	Creative thinking	Confidence	P-5 A
36	• By conduction				Self awareness	Care	
37	• Pulmonary vein		Names the blood vessel that carries blood from the lungs to the heart.	Circulatory system p.67	Critical thinking	Making decision	P-5 K
38	• Both pine and soya beans are propagated by means of seeds.		Compares pine and soya beans in terms of propagation.	Classification of plants p.76	Empathy	Acceptance	P-6 C
39	• Evaporation/ condensation/ transpiration		Identifies physical processes involved in a water cycle.	Environment and weather in our sub-county p.22	Decision making	Concern	P-3 K
40	• A pit latrine is used for defecation and urination/ it is used by man for proper disposal of urine and faeces.		Gives the use of a pit latrine in a school.	Sanitation p.15	Creative thinking	Love	P-4 C

		Description B (Good Marks)	Describes respiration	Respiratory system	Self awareness	Responsibility	P.6	C
42.	(a) Respiration is the process by which the body uses food and oxygen to produce energy. (b) (i) Cilia traps dust/ filters air. (ii) The mucus warms and moistens air. (c) Carbon dioxide	Gives the duties of work bees in the hive.	Keeping poultry and bees	Critical thinking	Concern	P.5	C	
42.	(a) Pollen basket (b) A worker bee cleans the hive/ protects the hive by stinging the enemies/ collects nectar, water and pollen/ feeds the queen bee on royal jelly/ makes honey. (c) The small holes are used to allow in and out the worker bees as they prepare honey.							
43.	(a) D – By wind (b) They are light to float on water/ they have air spaces inside to enable the seed to float on water/ they are less dense than water/ they have hard seed coats to prevent entry of water.	Identifies different mechanism of dispersal.	Classification of plants P.76	Self awareness	Concern	P.5	A	
44.	(a) (i) sickle (ii) Axe/ An axe (b) Keeping them in cool and dry conditions/ painting metallic tools/ oiling some parts of the tools/ using them purposefully.	States ways of caring for garden tools.	Growing crops P.3	Problem solving	Fluency	P.4	K	
45.	(a) Feeding records/ Health records/ production records/ sales and expenses records/ breeding records/ labour records/ field operations/ marketing/ inventory records/ accounts records. (b) They help farmers to get loans/ they help farmers to know whether he/she is making profits or losses/ they help farmers to know the history of the farm/ they help farmers to plan and budget for the farm.	Discusses the importance of keeping cattle farm records.	Keeping cattle P.79	Critical thinking	Responsibility	P.6	C	
46.	(a) soil drainage (b) L – Loam soil (c) N – Clay soil	The learner experiments soil drainage.	Soil P.37	Coping with stress.	Appreciation	P.5	A	
47.	(a) Soil sample M has large air spaces than soil sample L and N. (b) Frustration and stress/ social environment/ family background/ seductive advertisements/ desire to pass time with friends/ peer pressure/ desire to forget problems. (b) Assertiveness/ self-esteem/ coping with stress/ decision making/ peer pressure resistance.	Mentions the factors that leads to alcoholism.	Alcohol; smoking and drugs in society P.72	Self esteem	Care	P.6	K	
48.	(a) Carbon dioxide does not allow germs to multiply/ carbon dioxide does not support the life of germs. (b) Oxygen reacts with moisture/ water on metals to form rust/ oxygen combine with moisture on metals to form rust. (c) Oxygen is used for breathing/ oxygen supports burning/ carbon dioxide is used in fire extinguishers to stop fire/ Argon and nitrogen are used in electric bulbs/ Nitrogen is used for preserving seeds.	Describes air as a resource.	Resources in the environment P.83	Creative thinking	Acceptance	P.6	C	

49	(a) (i) Eating under cooked meat or pork (ii) Walking bare footed in damp / wet places. (b) Deworming/ eating well cooked meat or pork to prevent tapeworms/ walking with shoes in damp places/ washing fruits before eating/ washing raw vegetables before eating/ cutting long finger nails short/ proper disposal of human wastes.	Discusses ways of prevent and controlling worm infestation.	Communicable intestinal diseases and worm infestation P.17	Critical thinking	Concern	P.4 A
50	(i) vena cava - carries deoxygenated blood from all parts of the body to the heart. (ii) Septum muscles - separates the heart into the left and right side. (iii) Aorta - carries oxygenated blood from the heart to all parts of the body. (iv) Valves - allows blood to flow in one direction.	Compares parts of the heart to their uses.	Circulatory system P.67	Sympathy	P.5 C	
51	(a) Rain (b) A rain gauge is used to measure the amount of rainfall received in an area. (c) millimeters (d) To know the depth of rain water in the soil.	Describes a rain gauge	Weather changes around us P.5	Critical thinking	Concern, logic	P.4 C
52	(a) Both coniferous plant and flowering plants reproduce by means of seeds. (b) pine/ cypress/ podo/ larches/ fir tree/ gingko/ spruce/ cedar. (c) Algae reproduce by cell division.	Describes plants and algae.	Classification of plants	Decision making	Concern	P.6 C
53	(a) (i) Tuberculosis (ii) Tetanus (b) The community builds immunization centres/ sensitizes the members on the importance of immunization/ encourages the members to take children for immunization/ teachers create awareness about immunization/ organizes talk shows, seminars, and workshop and plays about immunization.	Discusses the signs of tuberculosis and tetanus.	Immunization P.33	Self awareness	Concern	P.5 C
54	(a) Dipping cattle in acaricides. (b) To prevent evaporation of the acaricides. (c) acaricide (d) Ticks/ flea/ lice/ mice/ tsetse flies	Describes dipping.	Keeping cattle P.79	Self esteem	Appreciation	P.6 A
55	(a) (i) Incisor teeth (ii) Canine teeth (b) Tooth decay/ dental decay/ gingivitis/ gum disease/ periodontal.	Mentions the diseases of the teeth.	The teeth P.13	Self awareness	Love	P.4