

SIR APOLLO KAGGWA SCHOOLS

PRE-MOCK JOINT EXAMINATION 2019

PRIMARY SEVEN

BASIC SCIENCE AND HEALTH EDUCATION

Time allowed: 2 hours 15 minutes

Index No.

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Candidate's Name: _____

Candidate's Signature: _____

School Name: _____

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 40 questions (40 marks)
3. Section **B** has 15 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary crossing of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated;
For Examiner's use only.

FOR EXAMINER'S USE ONLY

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Qn. No	MARK	SIGN
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

Turn over

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

1. Give any one example of fungi.

2. What name is given to the darkest part of a shadow?

3. What is meant by soil erosion?

4. How can a farmer prevent rusting of his garden tools?

5. Name the mineral salt that helps in the strengthening of our teeth and bones.

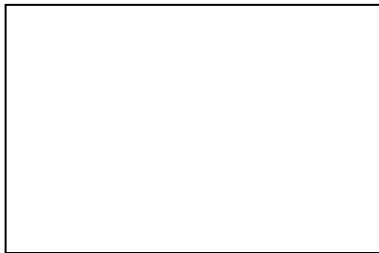
6. Mention one reason why some plants climb others.

7. Why is it not good to cut down trees without planting new ones?

8. Give any one way in which plant leaves are important to people, apart from eating them.

9. Mention any one cause of dental disorders.

10. In the space below, draw the head of a tape worm and show the suckers.



11. What happens to a piece of cheese which is left outside on a sunny day?

12. State any one function of the skull in a human body.

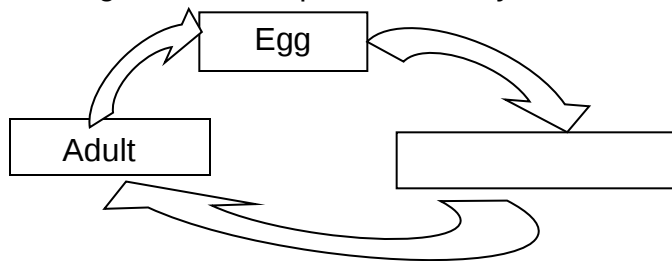
13. Give any one reason why a chameleon changes its colour according to the environment.

14. Why do we iron clothes?

15. Mention one reason why farmers sow seeds in the wet season.

16. Name the part that protects the inner parts of a fish from damage.

17. Fill in the missing word to complete the life cycle of a cockroach below.



18. Mention any one disease which a home without a latrine can suffer from.

19. What is a hutch?

The diagram below shows roots of a legume. Study it carefully and answer question 20.

20. Name the living organisms found in the structures marked with letter **K**.

21. Name the part of a flower which protects the ovules.

22. Why is bush burning as a method of clearing land discouraged?

23. What role does the sun play in the process of rain formation?

24. Which body part is cleaned by using a pumice stone?

25. Mention any one source of Vitamin **A**.

26. Why does water go through sandy soil faster than clay soil?

27. Which first aid would you give to someone who has got a scald?

28. Write down one breed of goats reared in Uganda.

29. Why is it important to maintain a good body posture?

Below is the picture of an animal. Study it and answer question 30.

30. To which group of vertebrates does the animal above belong?

31. Why would you regard water snails as vectors?

32. Name the digestive juice which is added to food in the mouth.

33. Why are honey bees called social insects?

34. Give one use of friction to man.

35. Give any one economic use of cattle.

36. Which element of Primary Health Care helps to control rapid population growth?

The diagram below shows a tooth. Study it carefully and answer questions 37 and 38.

37. Name the type of teeth shown above.

38. Mention the function of the type of tooth shown above.

39. How is a strain different from a sprain?

40. In the space below, draw a well labelled diagram of a stamen.



SECTION B

Questions 41 to 55 carry four marks each.

41. The diagram below shows an experiment carried out on a plant. Use it to answer the questions that follow.

- (a) What was the experiment about?

- (b) What is the purpose of the polythene paper in the experiment above?

- (c) Give any two factors that determine the rate of the above process.

(i)

(ii)

42. (a) Write O.R.S in full.

- (b) Give any two of the items used in making O.R.S

(i)

(ii)

- (c) Why is O.R.S given to patients with vomiting and diarrhoea?

43. (a) What is meant by mulching?

(b) Mention any three reasons why farmers mulch their gardens.

- (i) _____

- (ii) _____

- (iii) _____

44. The diagram below shows fertilization in a human being. Use it to answer questions that follow.

(a) Name the parts marked **X** and **Y**.

(i) **X** _____

(ii) **Y** _____

(b) What will happen if the sperms do not reach the fallopian tube?

(c) Why is part **Z** important in the process of fertilization?

45. Match the vectors in list **A** with the diseases they spread in list **B**.

A

Water snail
Housefly
Anopheles mosquito
Mad dogs

B

malaria
trachoma
rabies
bilharzia

(i) Water snail _____

(ii) Housefly _____

- (iii) Anopheles mosquito _____
- (iv) Mad dogs _____

46. (a) Name the gas found in fire extinguishers.

(b) Why was the gas named above chosen to be used in fire extinguishers?

(c) Give the danger of the above mentioned gas in our environment.

(d) Suggest one way of controlling the gas above in our environment.

47. The diagram below shows a thermometer. Use it to answer the questions that follow.

(a) What name is given to the thermometer above?

(b) What is the function of part marked with letter **K**?

(c) State the problem a doctor will find when treating a patient without a thermometer.

(d) Give the difference between fever and malaria.

48. Mulokole kept one goat and one rabbit in different houses. He used to put different types of food in their houses. He recorded the number of times they ate each food. The following was his daily record:

Animal	Number of times each food was eaten					
	Sweet potato leaves	Cassava leaves	Sorghum leaves	Grass	Maize leaves	Banana leaves
Goat	3	1	0	3	2	4
Rabbit	4	2	1	2	3	2

(a) What was the most favourable food for the:

(i) goat? _____

(ii) rabbit? _____

(b) What was the least favourable food for the rabbit?

(c) If Mulokole were to use only one type of food, which one would be the most favourable for both the goat and the rabbit?

49. (a) What is environmental degradation?

(b) Mention any two causes of environmental degradation.

(i) _____

(ii) _____

(c) Suggest one way of conserving forests.

50. (a) What is a pest?

(b) State the difference between a pest and a vector.

(c) Suggest any two ways of protecting crops from being destroyed by monkeys.

(i)

(ii)

51. Study the cross-section of two blood vessels below and answer the questions that follow.

(a) Name the type of blood vessels marked **P** and **Q**.

(i) **P**

(ii) **Q**

(b) Mention two differences between the blood vessel marked **Q** and that marked **P**.

(i)

(ii)

52. (a) Why are young children grouped under the vulnerable groups of people?

(b) Apart from the young children, name two other vulnerable groups of people.

(i)

(ii)

(c) Why should an invalid be fed on fruits?

53. (a) Give any two reasons why a school going pupil should learn about the 4Fs?

(i)

- (ii) _____
- (b) Give any two ways we can keep our food free from germs.
- (i) _____
- (ii) _____

54. The diagram below shows a musical instrument. Use it to answer questions that follow.

- (a) To which group of musical instruments does the above instrument belong?

- (b) Which of the strings will produce
(i) the highest sound?

- (ii) the lowest sound?

- (c) If you want string **c** to produce high sound, what will you do?

55. Give the use of the garden tools below.

- (a) Panga _____

(b) Rake _____

(c) Wheelbarrow _____

(d) spade _____

Good luck

P.7 Science Marking guide

1. mushrooms/algae
2. umbra
3. soil erosion is the washing away of top soil by agents.
4. By oiling/painting/greasing/galvanizing
5. Calcium
6. To get support/To get enough sunlight
7. It leads to desertification/Increase in soil erosion/Reduction in rainfall/It leads to displacement of wild animals/Increase in surface temperature.
8. Roofing houses/Used for mulching/Used in the extraction of juice/Used as medicine/Used in the art and craft industry.
9. Car accidents/Falls – Being hit very hard on the mouth, opening bottles using teeth
10. ...
11. A piece of cheese melts
12. To protect the brain and the inner ear.
13. To protect itself from enemies/To disguise and get food.
14. To kill lice/to kill germs/To look smart in them.
15. So that seeds can easily germinate due to presence of water.
16. Scales
17. Nymph
18. Diarrhoea/dysentery/cholera
19. A hutch is a house for rabbits.
20. Bacteria
21. The ovary
22.because it destroys humus and kills the living things in the soil
23. The sun produces heat which leads to evaporation and transpiration.
24. The feet
25. Green vegetables/milk/carrots/pawpaws/liver and oranges.
26. ...because sandy soil is more porous than clay soil.
27. To deep the burnt part of the body in cold water.
28. Anglo-nubia/Senaan/Toggen burg/Somali goats/Mubende goat
29.because good body posture avoids deformity of the body/....because good body posture helps digestion to take place properly.
30. Mammals/sea mammals
31.because they spread germs that cause bilharzias.
32. Saliva
33.because they live and work together.
34. It helps man to move/brake moving objects/write, sharpen garden tools etc
35. Cattle can be sold for money/Development of meat processing industry.
36. Family planning
37. Premolar tooth
38. To crush food
39. A strain is an injury on the tendon or muscle whereas a sprain results from a twisted or torn ligament.
40. ..
41. –
 - (a) The experiment was about transpiration
 - (b) To trap water vapour from the leaves.
 - (c) Number of stomata/Size of a leaf/ Temperature/Humidity
42. –
 - (a) Oral Rehydration Solution
 - (b) Sugar/cool boiled water/Salt/half-litre cups
 - (c) In order to replace the lost body fluids.
43. –
 - (a) The covering of top soil using dry plant materials.
 - (b) To keep soil moist/maintain soil moisture//To control soil erosion in the garden/To maintain soil fertility.
44. –
 - (a) X – comb Y – Fallopian tube/oviduct
 - (b) Fertilization will not take place.
 - (c) It produces ova (Ovum) which meets with sperm in order for fertilization to take place.
45. –
 - (i) Bilharzias
 - (ii) Trachoma
 - (iii) Malaria
 - (iv) Rabies
46. –
 - (a) Carbon dioxide
 - (b) ...because it does not support burning.
 - (c) It leads to global warming/Increase in surface temperatures/Suffocation of living things- death of living things.
 - (d) By planting many trees/Controlled cutting of trees/Avoid bush burning.
47. –
 - (a) Clinical thermometer
 - (b) To prevent/control the back flow of mercury.
 - (c) A doctor will not be able to tell the body temperature of a patient.
 - (d) Fever is a health condition where the body's temperature is above the normal whereas malaria is a disease caused by plasmodium germs.
48. –
 - (a) (i) Banana leaves (ii) Sweet potato leaves
 - (b) Sorghum leaves
 - (c) Sweet potato leaves
49. –
 - (a) The process of damaging or reducing the quality of the natural surroundings of man.

- (b) Agricultural practices like bush burning/Swamp draining/Road construction/Industrialization leading to overgrazing.
 - (c) Protecting existing forests/planting new trees/Controlled falling of trees.
50. –
- (a) A pest is living organism that spoils crops in the garden or store.
 - (b) A pest destroys crops while a vector spreads germs that cause diseases.
 - (c) By putting scarecrows/By putting guards (people) or and dogs/poisoning.
51. –
- (a) P artery Q Vein
 - (b) Vessel Q has valves while vessel P has no valves/Vessel Q has a wide lumen whereas vessel P has a narrow lumen/Vessel Q has thin walls while vessel P has thick walls.
52. –
- (a) They need special feeding care.
 - (b) Weaning babies/The elderly/Convalescents/pregnant mothers/Invalids
 - (c) To boost his immunity
53. –
- (a) To know about the dangers of flies and faeces/To learn the importance of washing hands/To learn how to avoid food contamination.
 - (b) Washing our hands with soap/Smoking pit latrines and destroying the breeding grounds for flies/using properly cleaned plates/utensils/covering food with clean plates/Eating hot/warm food.
54. –
- (a) String instruments.
 - (b) String d
 - (c) String a
 - (d) Make string c tighter
55. –
- (a) To cut small trees/Used in thinning
 - (b) To collect small pieces of rubbish/To level the soil in a nursery bed.
 - (c) To move produce, rubbish, equipment etc from one place to another.
 - (d) Collecting, loading manure, soil, sand etc.