

SET SEVEN EXAMINATION 2018
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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ONLY**

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. Name the human sense organ used for smelling.
.....
2. Identify any one material used in stopping burning.
.....
3. Give any one example of a perching bird.
.....
4. Why is crude oil grouped under non-renewable resource?
.....
.....
5. Why should stagnant water near a homestead be drained?
.....
.....
6. Apart from water, name any other condition necessary for germination.
.....
.....
7. Give any one advantage of weeds to farmers.
.....
.....
8. Give any one way you can control constipation.
.....
.....
9. Identify any one proper way of harvesting trees.
.....
.....
10. Briefly describe how you can separate beans from stones.
.....
.....
11. Name any one breed of rabbits kept in Uganda.
.....
.....

The diagram below shows a container used by first aiders. Study it and answer question 12.

12. Of what use is the above tool to a first aider?
.....
.....
13. How do farmers benefit from leaving the recommended distance between crops in a garden?
.....
.....
14. Give any one way you can improve on your vision.
.....
.....
15. Why are people able to see objects placed behind a clear glass?
.....
.....
16. Why would you advise all family members to use latrines correctly?
.....
.....
17. Why does a person breathe faster after running 100 meters?
.....
.....
18. What is the use of carrying out health inspection parades in schools?
.....
.....
19. Suggest any one use of adding salt to food before eating.
.....
.....
20. In which one way can friction be of use to a candidate in a classroom?
.....
.....
- The diagram below shows part of a flower. Use it to answer the questions which follow.***

21. Of what use is the above structure to a plant?

-
-
22. Name any one example of an arachnid.
-
23. Name the kind of diseases protected through proper disposal of faeces.
-
24. Apart from abstinence from sex, give any other method a teenager can use to prevent contracting AIDS.
-
-
25. Briefly describe how a P.1 child can assist a friend who has fallen in a pit latrine.
-
-
26. How do people in rural areas conserve fish locally?
-
-
27. Identify any one process that can increase carbon dioxide in our environment.
-
28. Draw the root system of a dicotyledonous plant.
-
-
29. Apart from female anopheles mosquito bites, how else can malaria spread?
-
-
30. How does salting help to conserve meat?
-
-
31. Write any one use of water to a plant.
-
-
32. Mention the part of the tooth that enables people to feel pain.
-
-
33. What is the purpose of keeping garden tools in dry places?

.....
.....
34. Apart from provision of food, how else do we care for chicks?
.....
.....

The diagram below shows a garden tool. Study it and answer question 35.

35. Of what use is the above tool to farmers?
.....
.....

36. Apart from diphtheria, identify any other disease prevented by injecting DPT vaccine.
.....

37. Why are people advised to switch off lights when not in use?
.....
.....

38. How is a person who is HIV positive different from the one who has developed AIDS?
.....
.....

The diagram below shows an experiment done by P.3 pupils. Use it to answer questions 39 and 40.

39. Name part labelled P.
.....

40. What does the experiment show about soil?
.....
.....

SECTION B

Questions 41 to 55 carry four marks each.

41 (a) Write any two elements of P.H.C.

(i)

(ii)

(b) Suggest any two activities done by a family to promote P.H.C in a home.

(i)

(ii)

42. **Match the following animals in A with their habitats in B correctly.**

A

B

cow

hutch

pig

soil

rabbit

byre

earthworm

sty

(a) cow

(b) pig

(c) rabbit

(d) earthworm

43. **The diagram below shows part of the alimentary canal. Study it and answer the questions which follow.**

(a) Name part marked **A**.

.....

(b) What is the role of part labelled **B**?

.....

.....

(c) Give the digestive process that takes place in part labelled **D**.

.....

(d) How can you improve on the normal functioning of the digestive system?

.....

.....

44(a) Identify any one component of blood.

.....

(b) Give any two functions of blood in our bodies.

(i)

(ii)

(c) How do people increase the volume of blood in their bodies.

.....

.....
45. *The list below shows two kinds of living organisms. Study them and answer the questions which follow.*

A

fern

mosses

B

puffballs

toadstools

(a) Give any one similarity between organisms in **A** and **B**.
.....
.....

(b) State any one difference between organisms in **A** and **B**.
.....
.....

(c) How do the living organisms in **B** reproduce?
.....

(d) Suggest any one danger of toadstools to people.
.....
.....

.....
46. *The diagram below shows a method of separating substances. Use it to answer the questions which follow.*

(a) What scientific name is given to parts **X** and **K**?

(i) **X**

(ii) **K**

(b) Name the method illustrated above.
.....

(c) Suggest any one way in which the method above can be of use at home.
.....
.....

.....
47. *The diagram below shows two mugs of the same size filled with hot milk. Study them and answer the questions which follow.*

- (a) In which mug will the porridge cool faster?
.....
- (b) Give a reason for your answer in (a) above.
.....
.....
- (c) By what process does heat travel through the following;
(i) the walls of the metallic mug?
.....
- (ii) the hot porridge
.....

48. *The diagram below shows equipment commonly used in rural areas. Study it and answer the questions which follow.*

- (a) Name the equipment shown above.
.....
- (b) Give any one material commonly used to make part S.
.....
- (c) Why is the material you have given in (b) above used?
.....
.....
- (d) Write the use of holes marked T.
.....
.....

49. *The diagram below shows a bee-keeper dressed to harvest honey. Study it and answer the questions which follow.*

(a) Name the parts labelled **N** and **B**.

(i) **N**

(ii) **B**

(b) Of what use is the equipment marked **R** to the bee-harvester?

.....

.....

(c) How are the feet of the bee-harvester protected from bee stings?

.....

.....

50 (a) What are anti-social behaviours?

.....

.....

(b) Name any two examples of the above behaviour in your classroom.

(i)

(ii)

(c) How can the above behaviour be controlled in a school?

.....

.....

51(a) State any three reasons why we give first aid to casualties ?

(i)

.....

(ii)

.....

(iii)

.....

(b) Give the use of cotton wool to a first aider.

.....

.....

52. *The diagram below shows an insect. Use it to answer the questions which follow.*

(a) Name the parts labelled **O** and **P**.

(i) **O**

(ii) **P**

(b) How is part labelled **R** useful to the above organism?

.....
.....

(c) By use of an arrow, show the spiracles.

53(a) What is mulching?

.....
.....

(b) How does mulching contribute to soil fertility?

.....
.....

(c) Give any two disadvantages of mulching.

(i)

(ii)

54(a) Name any one liquid that can conduct electricity.

.....

(b) Why are electric wires covered with rubber materials?

.....
.....

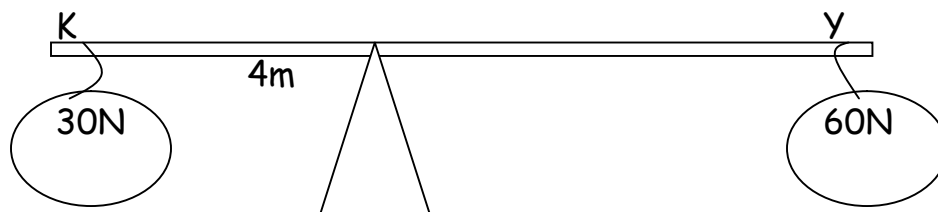
(c) What happens when two naked wires transmitting electricity come into contact with one another?

.....
.....

(d) How is the result given in (c) above dangerous to people?

.....
.....

55. *The diagram below shows a see-saw. Study it and answer the questions which follow.*

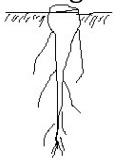


Find the total distance between point **K** and **Y**.

(4 marks)

Good luck

P.7 Science PRE mock set 7 Marking guide

1. Nose
2. Sand soil/water/carbon dioxide
3. Sunbird, sparrow, finch, swallow, horn bill, dove, weaver bird, swift etc
4. Crude oil cannot be replaced naturally once used up.
5. To destroy (remove) breeding areas for mosquitoes/To promote good sanitation
6. Warmth, oxygen
7. Some weeds are eaten/some weeds are used as herbal medicine/Weeds conserve soil moisture/some weeds are used to mulch gardens/weeds control soil erosion.
8. Eating food rich in roughages/Having a balanced diet/Eating fruits and green vegetables.
9. Through coppicing method/pollarding method/hopping method
10. By sorting, handpicking
11. Chinchilla rabbits/Angora rabbits/vex/Newzealand white rabbits/Californian rabbits, earlops
12. First aider uses the tool to keep first and instrument
13. It's easy to harvest crops/It's easy to weed crops/It's easy to spray crops/Better crop yields are harvested/ It reduces competition for nutrients and sunlight.
14. Eating food rich in vitamin A or a balanced diet/Washing the eyes with clean water/Don't look directly at the bright sun
15. Light passes through a clear glass easily/A clear glass is transparent so it allows light to pass through it.
16. To prevent outbreak of diarrhoeal diseases/To promote proper sanitation
17. To take in enough oxygen so as to oxidize food to release energy/To enable the body get rid of carbon dioxide released in the body tissues.
18. They help in promotion of good sanitation in schools/They help the learners to promote personal hygiene/They help the schools to control outbreak of diarrhoeal diseases or skin related cases
19. To add flavor, taste in the food/In order to get essential salts like iodine, sodium, calcium, etc
20. To write an examination
21. It produces pollen grains (male gamates)
22. Spider, mite, tick, scorpion
23. Water borne diseases/diarrhoeal diseases
24. Use of a condom when having sex
25. To call (yell) for help
26. Smoking/sundrying, salting
27. Burning materials that release smoke/industrialization/excessive deforestation/bush burning
28. 
29. Through unscreened blood transfusion.
30. The salt helps to dehydrate the fish.
31. Water helps plants to grow/Plants use water to make starch (food)/Water helps in seed germination/Water helps to dissolve mineral salts in the soil.
32. The pulp cavity
33. To prevent them from rusting
34. Vaccinating birds, provision of shelter
35. For digging rocky or stony soils/For digging hard soils/For digging places with plant roots/For loosening hard soil
36. Pertussis, Tetanus
37. To save power/To reduce electricity bills/To protect electric bulbs
38. A person who is HIV positive has a virus in the body while the one who has developed AIDS has shown signs and symptoms of the diseases (AIDS)
39. Air bubbles
40. Soil contains air
41. -
 - (a) Water and sanitation, family planning, first aid, food and nutrition, immunization, Personal Hygiene, control of diarrhoeal diseases, maternal and child health care, Health life styles etc
 - (b) Sweeping the litter on the compound/Collecting of rubbish/ Promoting proper disposal of human excreta/Having good nutrition (a balanced diet)/Eating food or serving food in clean utensils/Taking young children for immunization
42. Cow – byre
Pig – sty
Rabbit – hutch
Earthworm - soil
43. -
 - (a) Liver
 - (b) To store food temporarily after eating/ to produce hydrochloric acid/Its where

- proteins is digested/Its where alcohol is absorbed/It helps to churn food
- (c) It's where fats and oils is digested or where lipids is digested.
- (d) Drinking enough water after a meal/ Having a balanced diet/Eating food rich in roughages/Performing regular physical exercises/Regular deworming/ proper chewing of food before swallowing it.
44. -
- (a) Blood plasma/Blood platelets/Red blood cells/White blood cells
- (b) Blood helps to transport digested food, hormones, heat, medicine, carbon dioxide etc. in the body/Blood helps to fight disease causing germs/Blood helps to transport oxygen in the body/It helps in the clotting action
- (c) Eating food rich in iron/Eating dark green vegetables/Through blood transfusion/Taking iron tablets/Drinking plenty of fluids
45. -
- (a) Both reproduce by means of spores/Both grow in moist (damp) places
- (b) Organisms in A have chlorophyll while those in B don't have/organisms in A make their own food while those in B feed on decayed matter.
- (c) Organisms in B reproduce by means of spores.
- (d) Toadstools are poisonous to people.
46. -
- (a) X - residue K - filtrate
- (b) Filtration method
- (c) It's used to separate tea leaves from tea/For separation of seeds from fruit juice/For removal of suspended matter from water
47. -
- (a) Metallic mug or Mug A
- (b) Metallic mug or Mug A is a good conductor of heat so it loses heat
- (c) (i) By conduction
(ii) By convection
48. -
- (a) Charcoal flat iron box or flat iron box
- (b) Wood, plastic
- (c) It's a poor conductor of heat so it prevents the use from burns
- (d) To let in fresh air or oxygen
49. -
- (a) N - bee veil B - gumboot
- (b) The equipment R is used to puff smoke/It's used to blow the smoke to drowsy the bees.
- (c) The feet are protected by the gumboots from bee stings.
50. -
- (a) These are bad acts which are not accepted (allowed) in society
- (b) Theft (stealing)/abusing/telling lies/shouting (making noise)/farting/teasing/bullying, etc
- (c) Reporting to the teacher/Any solution relevant to the above act.
51. -
- (a) To save lives/to prevent further injuries/To promote recovery/To reduce pain/To save blood in case of bleeding
- (b) To soak blood from bleeding wounds or cuts/To clean wound
52. -
- (a) O - wing P - feeler (antenna)
- (b) It helps the insect to balance during flight.
- (c) -
53. -
- (a) Mulching is the covering of the top soil in a garden with only plant materials.
- (b) When mulches decay (decompose) they add humus in the soil
- (c) Mulches are fire hazards/some mulches grow into weeds/Mulching is tiresome (time consuming)/Mulches can harbor (hide) crop pests or dangerous animals like snakes.
54. -
- (a) Water/acid/dissolved salts/mercury
- (b) To prevent short circuits/To prevent electric shocks
- (c) A short circuit is produced
- (d) It can kill people in case of fire.
55. -
- (a) $L \times LA = E \times EA$
 $30 \times 4 = 60 \times y$ **m1**
 $120 = 60y$
 $\frac{120}{60} = \frac{60y}{60}$ **m1**
 $2 = y$
 $Y = 2 \text{ metres}$
- Total distance between point K and Y
 $4m + y$
 $4m = 2m$ **m1**
 $= 6 \text{ metres}$ **B1 (4 marks)**