STANDARD EIGHT - 2020

SCIENCE

Time: 1 hour 40 minutes.

INSTRUCTIONS TO CANDIDATES (Read these instructions carefully.)

- 1. You have been given this question booklet and a separate answer sheet. The question booklet contains 50 questions.
- 2. Do any necessary rough work in this booklet.
- 3. When you have chosen your answer, mark it on the ANSWER SHEET, not in the question booklet.

HOW TO USE THE ANSWER SHEET.

- 4. Use an ordinary pencil only.
- 5. Make sure that you have written on the answer sheet:-

YOUR INDEX NUMBER

YOUR NAME

NAME OF YOUR SCHOOL

- 6. By drawing a dark line inside the correct numbered boxes, mark your full Index Number (i.e. School Code Number and the three-figure Candidate's Number) in the grid near the top of the answer sheet.
- 7. Do not make any marks outside the boxes.
- 8. Keep your answer sheet as clean as possible and do not fold it.
- 9. For each of the questions 1-50, four answers are given. The answers are lettered A, B, C, D. In each case, only ONE of the four answers is correct. Choose the correct answer.
- 10. On the answer sheet, show the correct answer by drawing a dark line inside the box in which the letter you have chosen is written.

Example:-

In the Question Booklet:

- 15. The largest component of blood is
 - A. red cells.
 - B. white cells.
 - C. plasma.
 - D. platelet.

The correct answer is C.

On the Answer sheet:

14. [A] [B] [C] [D] 15. [A] [B] [C] [D]

16. [A] [B] [C] [D]

17. [A] [B] [C] [D]

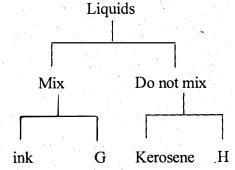
In the set of boxes number 15, the box with letter C printed in it is marked.

- 11. Your dark line MUST BE within the box.
- 12. For each question, **ONLY ONE** box is to be marked in each set of four boxes.

This question paper consists of 7 printed pages.

- 1. The following are signs and symptoms of sexually transmitted infections
 - (i) Painful and swollen lymph glands
 - (ii) Hard lumps on the skin
 - (iii) Yellowish discharge from penis
 - (iv) Sores in the mouth and lips Which signs are for syphilis?
 - A. i and ii
 - B. ii and iv
 - C. iii and iv
 - D. i and iii
- 2. Which of the following shows the **correct** flow of urine?
 - A. Ureter → kidney → urethra → bladder.
 - B. Bladder→ kidney → ureter → urethra.
 - C. Kidney → ureter → bladder → urethra.
 - D. Urethra → ureter → bladder → kidney.
- 3. The force that opposes motion can be decreased by the following except
 - A. using treads.
 - B. streamlining.
 - C. polishing surfaces.
 - D. using lubricants.
- **4.** Which one of the following pairs of parasites can be controlled by deworming?
 - A. Ticks and tapeworms.
 - B. Liverfluke and mites.
 - C. Ticks and fleas.
 - D. Roundworms and tapeworms.

5. The chart below represents a simple classification of liquids.



Which liquids are represented by H and

 \mathbf{G} ?

H G

A. Water Milk.

B. Petrol Methylated spirit.

C. Diesel

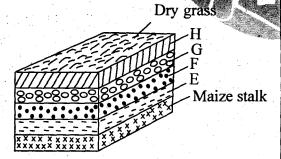
Milk.

D. Milk

Petrol.

- **6.** Which one of the following sources of electricity pollutes air?
 - A. Dynamo.
 - B. Diesel generator.
 - C. Biogas driven generator.
 - D. Solar panel.
- 7. Which of the following media can most effectively be used in the campaign against the spread of HIV and AIDS?
 - A. Posters.
 - B. Television.
 - C. Newspapers.
 - D. Radios.
- **8.** Through which one of the following media can sound travel the fastest?
 - A. Liquids.
 - B. Vacuum.
 - C. Air.
 - D. Solids.

- **9.** A plant with shallow roots and broad leaves is not likely to have
 - A. flexible stem.
 - B. thin cuticles.
 - C. thick cuticles.
 - D. many stomata.
- **10.** Which one of the following waste products is **not** excreted by the skin?
 - A. Excess salts.
 - B. Excess water.
 - C. Carbon dioxide.
 - D. Lactic acid.
- 11. The purpose of salt in food preservation is to
 - A. lower the temperature
 - B. remove water.
 - C. hydrate the food.
 - D. remove air.
- 12. The diagram below shows a composine heap.

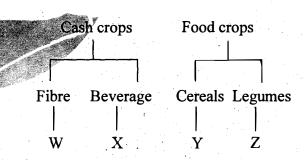


Which one of the above layers adds nutrients to the heap?

- A. G
- B. H
- C. E
- D. F
- 13. Which one of the following pairs of blood vessels carries deoxygenated blood?
 - A. Venacava and aorta.
 - B. Pulmonary artery and venacava.
 - C. Pulmonary vein and pulmonary artery.
 - D. Aorta and venacava.

- 14. Which one of the following crops is **not** a fodder crop?
 - A. Sweet potato vines.
 - B. Oats.
 - C. Kikuyu grass.
 - D. Napier grass.
- 15. Which one of the following pairs consists of only living components of the environment?
 - A. Water and air.
 - B. Soil and plants.
 - C. Animals and air.
 - D. Plants and animals.
- **16.** The chart below shows how std. 4 pupils classified crops:

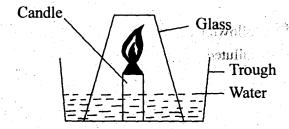
Crops



Which one of the following shows the crops W, X, Y, Z respectively?

- A. Cotton, coffee, maize, peas.
- B. Sisal, cotton, wheat, beans.
- C. Palm tree, cotton, beans, sorghum.
- D. Simsim, tea, millet, peas.
- 17. The following are natural sources of light except
 - A. glowworms.
 - B. the sun.
 - C. candle.
 - D. stars.

- 18. The clouds that look like bundles of cotton wool are not likely to
 - A. have a flat base.
 - B. be a sign of heavy rainfall.
 - C. be a sign of fine weather.
 - D. be found high in the sky.
- 19. Which of the following groups of activities only consists of recreational uses of water?
 - A. Fishing, making fountains, surfing.
 - B. Boat racing, irrigation, making fountains.
 - C. Swimming, mixing chemicals, boa racing.
 - D. Surfing, swimming, boat racing.
- 20. Which of the following groups of foods consists of a balanced diet?
 - A. Cassava, chicken, orange
 - B. Spinach, lemon, beans.
 - C. Cabbages, pineapple, carrots.
 - D. Yams, kales, maize.
- 21. Standard 6 pupils set up an experiment as shown below.



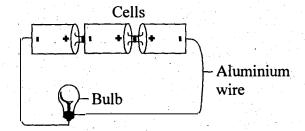
After the experiment they concluded that

- A. air occupies space.
- B. oxygen supports burning.
- C. carbon dioxide supports combustion.
- D. water supports burning.

- **22.** Which one of the following plants is classified as both green and non-flowering?
 - A. Sisal.
 - B. Grass.
 - C. Cypress.
 - D. Sugarcane.
- **23.** The following are some characteristics of a certain vertebrate:
 - (i) Lays eggs that are externally fertilized.
 - (ii) Scales on the body
 - (iii) Varying body temperature

The animal with the above characteristics is likely to be

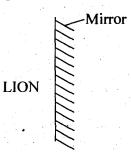
- A. salamander.
- B. lizard.
- C. eagle.
- D Hile-
- 1 24. Which one of the following is an effect
 - of HIV and AIDS to the nation?
 - A, Congestion in hospitals.
 - B. Poor health.
 - C. Stigmatisation.
 - D. Lack of parental care.
 - 25. Std. 7 pupils made a simple electric circuit as shown below.



They found out that the bulb did not light. What mistake could they have made?

- A. Using aluminium wire instead of copper wire.
- B. The connection of dry cells.
- C. Using three dry cells.
- D. Placing a wire at the lower part of the bulb.

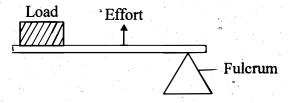
26. Simon wrote the word LION on a piece of paper and held a mirror in front of the paper.



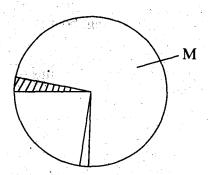
Which one of the following shows how the word appeared on the mirror?

- A. LION
- LION. B
- C. LION
- D. NOIL
- 27. Which one of the following pairs of foods can be used to prevent kwashiorkor?
 - A. Fish and peas.
 - B. Sweet potatoes and mutton.
 - C. Oranges and bananas.
 - D. Rice and beef.
- **28.** Which of the following is a use of translucent materials?
 - A. Partitioning walls of room in a house.
 - B. Making windows in bathrooms.
 - C. Making of vehicle windscreens.
 - D. Making of window panes.
- **29.** The soil that cracks when dry is also likely to
 - A. have good drainage.
 - B. have large air spaces.
 - C. become waterlogged.
 - D. be suitable for farming.
- **30.** A river passing through a coffee plantation is **mainly** polluted by
 - A. oil spillage.
 - B. flooding.
 - C. human waste.
 - D. excess farm chemicals.

31. Which one of the following levers can fit in the illustration below?

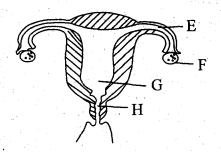


- A. Spade.
- B. Wheelbarrow.
- C. Crowbar.
- D. Claw hammer.
- 32. The pie-chart below represents composition of air in the atmosphere.



- Which of the following is the function of the gas labelled M?
- A. Used in extinguishing fire.
- B. Used in electric bulbs.
- C. Used in photosynthesis.
- D. Used by legumes in making proteins.
- 33. The following are ways in which water gets polluted. Which one is **not**?
 - A. Spills from oil tanker.
 - B. Burning vegetation cover.
 - C. Using farm chemicals excessively.
 - D. Untreated sewage.
- **34.** Which one of the following pests will destroy crops in the field?
 - A. Weevil.
 - B. White ant.
 - C. Mice.
 - D. Stalkborer.

- 35. Std. 6 pupils were to conduct an experiment on making a rainbow. Which of the following materials were they likely to use?
 - A. Mirror and water.
 - B. Pencil and water.
 - C. Ruler and water.
 - D. Torch and ruler.
- 36. Which of the following fertilisers is **not** classified as straight fertilisers?
 - A. Calcium ammonium nitrate.
 - B. Single superphosphate.
 - C. Diammonium phosphate.
 - D. Urea.
- 37. Clouds are classified according to all the following except
 - A. appearance.
 - B. size.
 - C. height.
 - D. shape.
- **38.** Use the female reproductive system below to answer the question that follows.

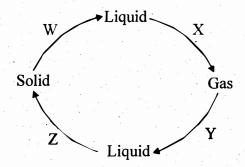


Implantation takes place in the part labelled

- A. E
- B. H
- C. F
- D. G
- **39.** Which one of the following external parasites attacks all domestic animals?
 - A. Flea.
 - B. Mite.
 - C. Tsetsefly.
 - D. Tick.

- **40.** Which one of the following is **not** a function of mulching?
 - A. Control weeds.
 - B. Conserves soil moisture.
 - C. Encourages soil erosion.
 - D. Adds organic matter in the soil.
- 41. Which one of the following is the last stage of giving birth?
 - A. Labour pains.
 - B. Elimination of the afterbirth.
 - C. Bursting of the amniotic fluid.
 - D. Contraction of the cervix.
- 42. Which of the following metals is **not** magnetic?
 - A. Iron.
 - B. Silver.
 - C. Cobalt.
 - D. Steel.
 - 43. Which vaccine is administered to protect the infant from whooping cough?
 - A. B.C.G
 - B. Anti-polio.
 - C. Ant measles.
 - D. DPT
 - **44.** Which one of the following planet is the fourth from Mercury?
 - A. Saturn.
 - B. Uranus.
 - C. Jupiter.
 - D. Mars.

45. Use the diagram below to answer the question that follows



Which two processes require absorption of heat from the surrounding?

- A. W and Z
- B. Y and Z
- C. W and X
- D. X and Y
- **46.** The function of the amniotic fluid is to
 - A. prevent mixing of the mother's blood and foetus blood.
 - B. protect the foetus against shock.
 - C. facilitate food passage from the mother's blood to the foetus' blood.
 - D. facilitate the removal of waste products from the foetus to the mother's blood.
- **47.** Which one of the following is false about the type of teeth shown below?



- A. They are twelve in an adult.
- B. They have cusps.
- C. They are used for grinding and chewing.
- D. They are part of deciduous teeth.

- **48.** Which of the following is **not** a myth and misconception about HIV and AIDS?
 - A. All people can be infected with HIV and AIDS.
 - B. Mosquito bites can transmit HIV.
 - C. Sexual intercourse with a child can cure AIDS.
 - D. Sharing utensils can transmit HIV.
- 49. Which one does **not** function the same way as a petrol driven generator to produce electricity?
 - A. Hydro-electric generator.
 - B. Dry cells.
 - C. Wind driven turbine.
 - D. Bicycle dynamo.
- **50.** Which method of grazing uses a temporary movable fence?
 - A. Paddocking.
 - B. Stall feeding.
 - C. Tethering.
 - D. Strip grazing.