# TARGETER (GP) TRACKER 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:-

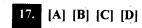
#### In the Question Booklet:

- 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:







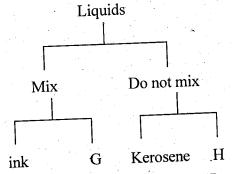
In the set of boxes number 15, the box with letter C printed in it is marked.

- 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.

- 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
  - Which of the following shows the 2. correct flow of urine?
    - A. Ureter → kidney → urethra → bladder.
    - B. Bladder→ kidney → ureter → urethra.
    - C. Kidney → ureter → bladder urethra.
    - D. Urethra → ureter → bladder → kidney.
    - The force that opposes motion can be **3.** decreased by the following except
      - A. using treads.
      - B. streamlining.
      - C. polishing surfaces.
      - D. using lubricants.
    - 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.

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



Which liquids are represented by H and

 $\mathbf{G}$ ?

G

Milk. A. Water

Methylated spirit. B. Petrol

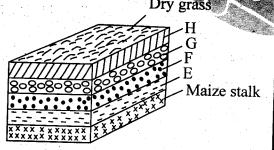
Milk. C. Diesel Petrol.

- Which one of the following sources of electricity pollutes air?
  - A. Dynamo.

D. Milk

- B. Diesel generator.
- C. Biogas driven generator.
- D. Solar panel.
- 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.
  - Through which one of the following 8. media can sound travel the fastest?
    - A. Liquids.
    - B. Vacuum.
    - C. Air.
    - D. Solids.

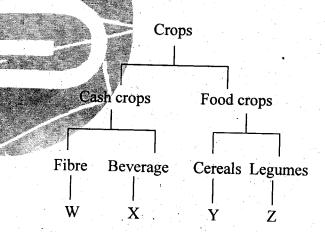
- **9.** A plant with shallow roots and broad leaves is not likely to have
  - A. flexible stem.
  - B. thin cuticles.
  - C. thick cuticles.
  - D. many stomata.
- 10. Which one of the following waste products is **not** excreted by the skin?
  - A. Excess salts.
  - B. Excess water.
  - C. Carbon dioxide.
  - 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 compost 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.
- TRACKER 002

- 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:



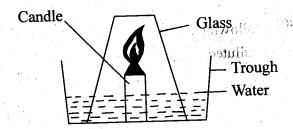
Which one of the following shows the crops W, X, Y, Z respectively?

- 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.

1918

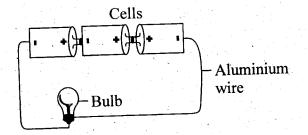
- B. be a sign of heavy rainfall.
- C. be a sign of fine weather.
- D. be found high in the sky.
- 19. Which of the following groups of activities only consists of recreational uses of water?
  - A. Fishing, making fountains, surfing.
  - B. Boat racing, irrigation, making fountains.
  - C. Swimming, mixing chemicals, boat 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.

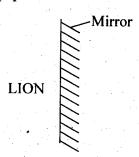
- **22.** Which one of the following plants is classified as both green and non-flowering?
  - A. Sisal.
  - B. Grass.
  - C. Cypress.
  - D. Sugarcane.
- 23. The following are some characteristics of a certain vertebrate:
  - (i) Lays eggs that are externally fertilized.
  - (ii) Scales on the body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



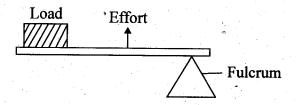
Which one of the following shows how the word appeared on the mirror?

- A. LION
- LION.B
- C. LION
- D. NOIL

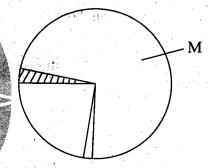
- 27. Which one of the following pairs of foods can be used to prevent kwashiorkor?
  - A. Fish and peas.
  - B. Sweet potatoes and mutton.
  - C. Oranges and bananas.
  - D. Rice and beef.
- **28.** Which of the following is a use of translucent materials?
  - A. Partitioning walls of room in a house.
  - 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.

TRACKER - 002

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



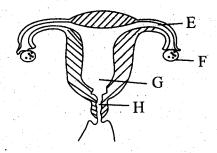
- A. Spade.
- B. Wheelbarrow.
- C. Crowbar.
- D. Claw hammer.
- 32. The pie-chart below represents composition of air in the atmosphere.



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.

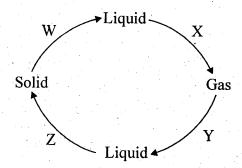


Implantation takes place in the part labelled

- 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.