

STANDARD 7 SCIENCE

MID-TERM 1 2020

Time: 1 hour 40 mins

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 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:

16. The force of gravity acting on an object is called

- A. pressure B. mass
C. weight D. volume

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 16, the box with letter C printed in it is marked.

1. Which of the following parts of the reproductive system are the male sex cells produced?
 - A. Penis
 - B. Urethra
 - C. Testis
 - D. Ovary

2. A feather floats on water while a nail sinks in water because of
 - A. shape
 - B. size
 - C. material
 - D. mass

3. Which one of the following is green non flowering plant?
 - A. Mushroom
 - B. Fern
 - C. Toadstool
 - D. Grass

4. Identify the type of tooth drawn below and its function.



- A. Canine - Tearing
- B. Incisor - Tearing
- C. Molar - Crushing
- D. Premolar - Grinding

5. When modelling the solar system which material below can be used instead of pins?
 - A. Wax
 - B. Wire
 - C. Glue
 - D. Clay

6. The correct unit to use when measuring small quantities of mass is
 - A. kilograms
 - B. tonnes
 - C. grams
 - D. newtons

7. The following are all special sounds **except** one. Which **one** is it?
 - A. Ambulance siren
 - B. Car hooting
 - C. A boy crying
 - D. Bell ringing

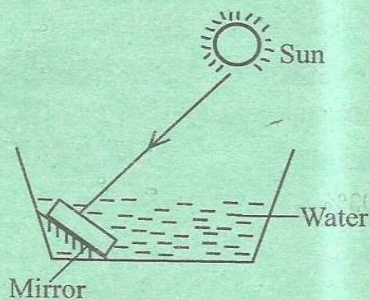
8. When investigating convection in liquids, which one of the following materials can be used to show the movement of current in water?
 - A. Wax
 - B. Sawdust
 - C. Salt
 - D. Stone

9. The component of air that is used by legumes to make proteins occupies a percentage of
 - A. 78%
 - B. 21%
 - C. 0.03%
 - D. 0.91%

10. Which one of the following foods when eaten will provide the body with vitamins and energy?
 - A. Milk
 - B. Avocado
 - C. Eggs
 - D. Groundnuts

11. In an insect pollinated flower, the part that attracts insects is
- petals
 - anthers
 - sepals
 - stigma
12. Which among the following crops is a legume?
- Wheat
 - Millet
 - Carrots
 - Peas
13. Which one of the following ways is friction reduced?
- Using treads.
 - Spreading murrum on roads.
 - Roughening surfaces.
 - Using ball bearings.

14. The diagram below shows a set up used by std. 6 pupils.



The set-up was used to investigate

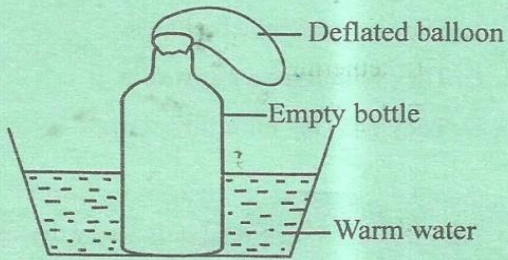
- refraction of light.
- reflection of light.
- formation of a rainbow.
- how images are formed.

15. Which characteristic below is common to both a weaverbird and a toad?
- They both have scales.
 - They both breathe by lungs.
 - They both have a moist skin.
 - They both lay unfertilized egg.
16. Anaemia is a nutritional deficiency disease caused by
- lack of proteins.
 - lack of iron.
 - lack of calcium.
 - lack of all types of food.
17. Roughages in the diet help to
- build muscles.
 - supply additional nutrients.
 - prevent constipation.
 - prevent dehydration.

18. The following are reasons for lighting a house properly **except** to
- keep of pests.
 - read comfortably.
 - keep the house warm.
 - avoid accidents.

19. Which of the following groups of foods make a balanced diet?
- Milk, bread, sweet potatoes.
 - Meat, cabbage, ugali.
 - Meat, beans, fish.
 - Rice, green bananas, potatoes.

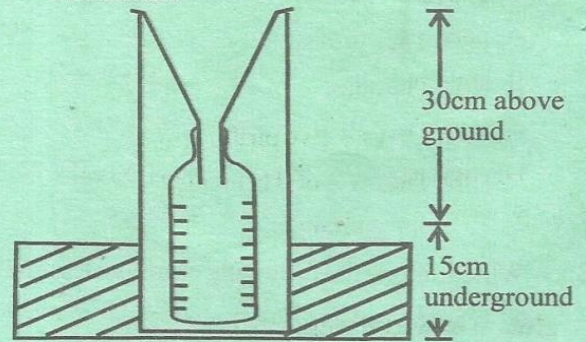
20. The experiment below was carried out by std. 5 pupils.



The experiment was used to investigate whether:

- A. matter occupies space.
 - B. air expands when heated.
 - C. solids conduct heat.
 - D. water expands when heated.
21. Which one of the following objects has a definite volume but no definite shape?
- A. Water
 - B. Stone
 - C. Ice
 - D. Oxygen
22. Counseling done before taking an HIV test is called
- A. post-test counseling.
 - B. Elisa test.
 - C. pre-test counseling.
 - D. guidance and counseling.
23. When objects of different mass are dropped from the same height, one of the following happens. Which one?
- A. The lighter one falls first.
 - B. The heavier reaches the ground first.
 - C. They collide in the air.
 - D. They both reach the ground at the same time.

24. The diagram below shows a weather instrument.



The main reason for raising the instrument 30cm above the ground is to

- A. prevent water collected from evaporating.
- B. withstand harsh weather conditions.
- C. prevent running water from splashing in.
- D. measure water collected accurately.

25. The diagram below shows a phase of the moon. The phase of the moon is called



- A. New moon
- B. Crescent
- C. Full moon
- D. Gibbous

26. Among the following livestock, which one provides dairy and mutton?

- A. Cattle
- B. Sheep
- C. Goats
- D. Camel

27. Which one of the following is **not** a characteristic of all animals?
- They grow.
 - They die.
 - They all give birth.
 - They respond to changes in the surroundings.

28. When breathing in the
- trachea contracts.
 - the diaphragm becomes dome-shaped.
 - the ribs move upwards and outwards.
 - the lungs deflate.

29. Blood that has a lot of oxygen is
- scarlet red in colour.
 - dark red in colour.
 - under high pulse.
 - dull red in colour.

30. A certain drug has the following effects:
- Causes hallucination.
 - Causes loss of appetite.
 - Causes awakefulness.

The drug when abused is **likely** to be

- cocaine
 - mandrax
 - khat
 - bharg
31. During germination which part of a seed allows in water?
- Testa
 - Micropyle
 - Cotyledon
 - Scar

32. The following are rotational methods of grazing **except**
- strip grazing
 - paddocking
 - tethering
 - herding

Study the diagram below:



33. The main reason why chamber marked T has stronger walls than S is because
- it pumps blood to long distance in the body.
 - it prevents the back flow of blood.
 - it carries oxygenated blood.
 - it receives deoxygenated blood from the lungs.

34. The following are signs and symptoms of malaria **except**
- blood in urine.
 - headache.
 - shivering and sweating.
 - pains in joints.

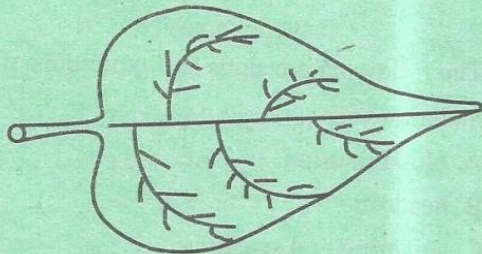
35. The first DPT vaccine is given to an infant at the age of
- 9 weeks
 - 6 weeks
 - 10 weeks
 - birth

36. A rough layer that develops on our teeth if not properly brushed is called
- A. plaque
 - B. cavities
 - C. gingivitis
 - D. caries

37. The following are methods of preserving food. Which one is **both** a modern and a traditional method?
- A. Smoking
 - B. Refrigeration
 - C. Drying
 - D. Canning

38. Which one of the following components of blood is responsible for fighting disease-causing germs?
- A. White cells
 - B. Red cells
 - C. Platelets
 - D. Plasma

39. The diagram below shows a plant part.



The above part of plant has the following functions **except**

- A. making food.
- B. breathing.
- C. transpiration.
- D. absorption of water.

40. A child born to a smoking mother has the following problems **except** that the child born has
- A. underweight.
 - B. poor mental growth.
 - C. weak immunity.
 - D. liver cancer.

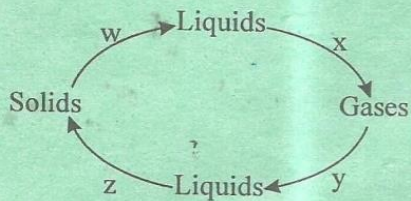
41. Among the following body fluids, which one does **not** transmit HIV virus?
- A. Saliva
 - B. Urine
 - C. Blood
 - D. Breast milk

42. The soil that cracks when dry also
- A. has poor capillarity.
 - B. is sticky when wet.
 - C. has the best drainage.
 - D. is good for farming.

43. The blood circulatory system is made up of all the following **except**
- A. blood.
 - B. blood vessels.
 - C. heart.
 - D. lungs.

44. Which one of the following physical changes takes place in boys **only** during adolescence?
- A. Pimples appearing on the face.
 - B. Wet dreams.
 - C. Hips broadening.
 - D. Increase in height.

45. The diagram below shows the changes of states of matter.



Which two processes require an increase in temperature?

- A. W and X
 - B. W and Z
 - C. Z and Y
 - D. X and Y
46. Which one of the following materials will allow light to pass through but one cannot see through?
- A. Smoke
 - B. Fluorescent tube
 - C. Clean water
 - D. Wood
47. When balancing on a see saw
- A. the lighter person should sit near the pivot.
 - B. the lighter person should stand on the pivot.
 - C. the heavier person and the lighter person should sit at the same distance from fulcrum.
 - D. the pivot should be move near the heavier person.

48. Among the following effects of drug abuse, which one is a social effect?

- A. Hallucination
 - B. Truancy
 - C. Lack of concentration
 - D. Fits
49. During digestion of foods water and mineral salts are absorbed in the
- A. stomach
 - B. rectum
 - C. large intestines
 - D. mouth

50. Digestion of foods starts in the
- A. mouth
 - B. small intestines
 - C. large intestines
 - D. stomach