



# STANDARD EIGHT

DISCOVERY  
CENSOR  
003

## DISCOVERY NATIONAL EXAMINATIONS KCPE COMPLIANCE 2019

### SCIENCE

Time: 1 hour 40 minutes

#### 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 this question booklet.

#### HOW TO USE THE ANSWER SHEET

4. Use only an ordinary pencil.
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 mark outside the boxes.
8. Keep the answer sheet as clean as possible and **DO NOT FOLD IT**.
9. For each of the questions 1-50, answers are given. The answers are lettered A, B, C and D. In each case only **ONE** of the four answers is correct. Choose the correct answer.
10. On the answer sheet the correct answer is to be shown by drawing a **dark line** inside the box in which the letter you have chosen is written.

#### Example

In The Question Booklet.

24. Animals that feed on plants **ONLY** are called\_\_\_\_\_.

- A. rodents
- B. omnivorous
- C. carnivores
- D. herbivorous

The correct answer is **D** on the answer sheet:

20 [A] [B] [C] [D] 21 [A] [B] [C] [D] 22 [A] [B] [C] [D] 23 [A] [B] [C] [D] 24 [A] [B] [C] [D]

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

**This question paper consist of 8 printed pages**

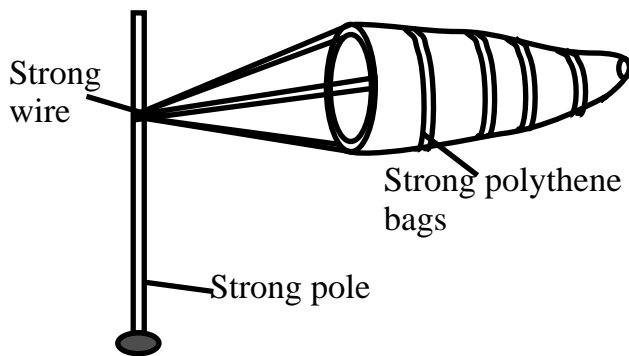
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1. Which one of the following is **not** a part of circulatory system?
  - A. Lungs
  - B. Heart
  - C. Blood vessels
  - D. Blood
2. The **main** excretory organ is the \_\_\_\_\_.
  - A. skin
  - B. kidney
  - C. skin
  - D. liver
3. What does **not** happen during inhalation?
  - A. Expansion of the lungs
  - B. Volume of the chest increases
  - C. The pressure in the chest cavity decreases
  - D. The ribs moves downward and inwards
4. Which one of the following is formed when female sex cell joins with the male sex cell?
  - A. Embryo
  - B. Zygote
  - C. Foetus
  - D. Ova
5. Which stage in reproduction in human being comes last?
  - A. Parturition
  - B. Conception
  - C. Implantation
  - D. Copulation
6. The **most** dangerous and deceptive stage in HIV/AIDs development is:-
  - A. incubation
  - B. symptomatic
  - C. window
  - D. full blown
7. The sexually transmitted infection that has painless sore on the head of the penis is \_\_\_\_\_.
  - A. chancroid
  - B. syphilis
  - C. gonorrhoea
  - D. genital herpes
8. A certain diseases has the following signs and symptoms:
  - i) *Pains in joints*
  - ii) *Skin rashes*
  - iii) *Abdominal pains*
  - iv) *Mild diarrhoea*
 The disease is **likely** to be \_\_\_\_\_.
  - A. bilhazia
  - B. malaria
  - C. typhoid
  - D. cholera
9. The **main** way of spreading HIV/AIDs is through:-
  - A. sexual intercourse
  - B. sharing piercing objects
  - C. mother and child during birth
  - D. blood transfusion

10. The following are pairs of health effects of drug abuse **except** \_\_\_\_\_
- A. withdrawal symptoms and addiction
  - B. poor judgement and withdrawals
  - C. poor health and coma
  - D. rape and truancy

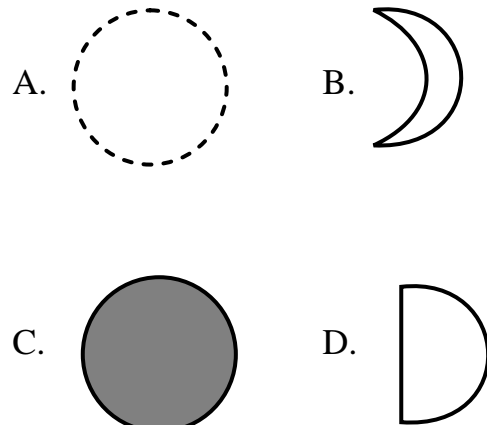
11. The diagram below shows a certain weather instrument



Which of the following statement is **not** true about the weather instrument?

- A. It is open on both sides
  - B. It mainly measures strength of wind
  - C. It is painted black and white for visibility
  - D. It points where the wind is blowing from
12. Which one of the following materials is **not** needed when modelling the solar system?
- A. Manilla paper
  - B. Clay or plasticine
  - C. Soft board
  - D. Soft bones

13. The phase of the moon that is seen after new moon is:-



14. Which one of the following is **not** a major component of environment?

- A. Soil
- B. Heat
- C. Air
- D. Water

15. The **most** abundant component of environment on earth surface is \_\_\_\_\_

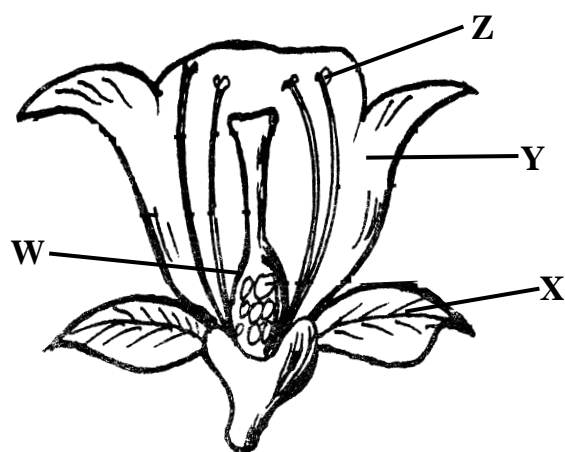
- A. water
- B. air
- C. plants
- D. animals

16. Which one of the following adaptations does **not** help in preventing loss of water in xerophytes?

- A. Sunken stomata
- B. Folding leaves
- C. Stomata closure
- D. Succulent stems

17. Which one of the following is **not** an effect of ill health in plants?
- Reduced quality produce
  - Reduced yields
  - Stunted growth
  - Economical loss

18. The diagram below shows a flower

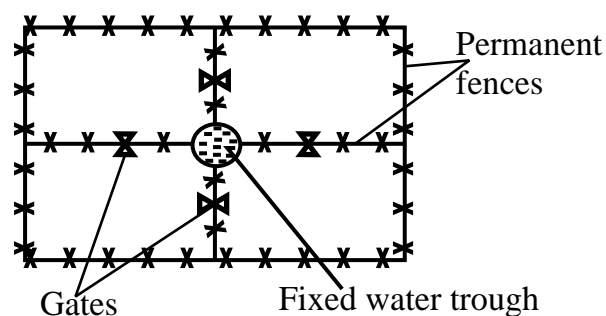


Which parts are responsible in producing sex cells?

- Z and W
  - X and Y
  - W and Y
  - X and Z
19. The **most** abundant organism in a food chain is the \_\_\_\_\_
- producers
  - primary consumers
  - secondary consumers
  - decomposers

20. Which one of the following crop is **not** attacked by aphids?
- Cabbage
  - Orange
  - Maize
  - Sweet potatoes

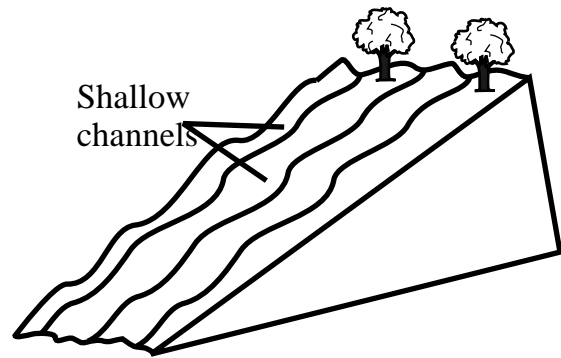
21. The method of grazing shown below is:-



- strip grazig
  - paddocking
  - herding
  - stall feeding
22. The teeth of a carnivore are adapted to all of the following **except**\_\_\_\_\_
- cracking bones
  - slicing flesh
  - killing the prey
  - cutting
23. Which animal has no moist skin and also does **not** take care of its young ones?
- Newts
  - Salamander
  - Frogs
  - Tilapia

24. Which one of the external parasite attacks all domestic animals?
- Mites
  - Flea
  - Tsetse flies
  - Lice
25. Which one of the following sign of ill health in animal is **not** necessarily a sign of sickness?
- Blood in stool
  - Reduced yields
  - Rough coat
  - Loss of weight
26. Water can be conserved in all of the following ways **except:-**
- harvesting rain water
  - re-using water
  - recycling water
  - construction of porous dams
27. Which one of the following is **not** a source of water?
- Dam
  - River
  - Taps
  - Rain
28. Which of the following is **not** a recreational use of water?
- Boat racing
  - Swimming
  - Use of fountains
  - Fishing

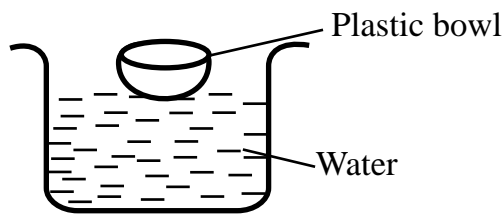
29. The type of erosion shown below is:-



- rill erosion
  - sheet erosion
  - gully erosion
  - splash erosion
30. Which one of the following is **not** a macro nutrient?
- Calcium
  - Manganese
  - Sulphur
  - Nitrogen
31. Which one of the following property of soil does **not** depend on the size of the soil particles?
- Capillarity
  - Drainage
  - Texture
  - Fertility
32. Which one of the following deficiency disease is caused by lack of body building food in the body?
- Marasmus
  - Kwarshiokor
  - Rickets
  - Anaemia

33. The method of food preservation that is both modern and traditional is \_\_\_\_\_
- use of low temperature
  - salting
  - freezing
  - smoking
34. The quantity of matter in a substance is defined as \_\_\_\_\_
- weight
  - inertia
  - mass
  - gravity
35. The force that opposes motion is useful in all the following ways **except**:-
- walking
  - erasing
  - swimming
  - holding
36. The following are sources of energy **except**:-
- Light
  - Sound
  - Heat
  - Force
37. The **main** function of mulching is \_\_\_\_\_
- conserve soil moisture
  - discourage growth of weeds
  - prevent splash erosion
  - they increase soil fertility
38. Which one the following is **not** a use of oxygen?
- Help in germination
  - Helps in burning
  - Helps in putting out fire
  - Helps in respiration
39. Which one of the following electrical gadget does **not** use heating effect?
- Electric iron
  - Emulsion heater
  - Electric fan
  - Electric kettle
40. Which one of the following is **not** an example of special sound?
- Child
  - Car hooting
  - Screaming
  - Police siren
41. Which one of the following is **not** needed in making a rainbow ?
- Clear water
  - Drinking glass
  - Ruler
  - Basin

42. The property of matter being investigated below is \_\_\_\_\_



- A. shape  
B. material  
C. size  
D. weight
43. The lever that has longer effort distance than load distance is \_\_\_\_\_  
A. wheel barrow  
B. crowbar  
C. claw hammer  
D. spade
44. The following are factors to be considered when choosing a method of separating mixture which one is **not**?  
A. Mass  
B. Flexibility  
C. Solubility  
D. Size
45. Which one of the following object will **not** be attracted by a magnet?  
A. Office pins  
B. Steel wool  
C. Copper coins  
D. Iron nail

46. Which one of the following material is the **most** transparent?  
A. Water  
B. Glass  
C. Air  
D. Wind screen
47. Which one of the following is **not** a maintenance practise for farm tools?  
A. Cleaning them after use  
B. Oil and greasing  
C. Painting  
D. Sharpening cutting tools
48. Which one of the following animal feed does **not** provide the animals with proteins?  
A. Clovers  
B. Desmodium  
C. Guetamala  
D. Lucerne
49. The units for measuring force is \_\_\_\_\_  
A. tonnes  
B. newtons  
C. kilogrammes  
D. grammes
50. Which one of the following source of electricity does **not** produce electricity as others?  
A. Dry cell  
B. Bicycle dynamo  
C. Wind driven turbines  
D. Geothermal generators