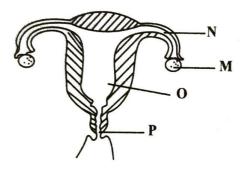


## **DISCOVERY NATIONAL EXAMINATIONS STANDARD SEVEN - YEAR 2021 SCIENCE**

Time: 1 hour 40 minutes

- Which one of the following type of soil 1. erosion is characterised by small channels on sloping land?
  - A. Sheet erosion
  - B. Gulley erosion
  - C. Rill erosion
  - D. Splash erosion
- 2. The method of food preservation that works by making bacteria inactive is; A. drying
  - B. canning C. smoking
    - D. freezing
- 3. The brightest planet in the solar system is;
  - A. Mars B. Mercury C. Earth D. Venus

## Use the diagram below to answer questions 4 and 5.



4. Fertilization takes place in the part labelled;

A. M	<b>B</b> . <b>N</b>
С. О	D. <b>P</b>

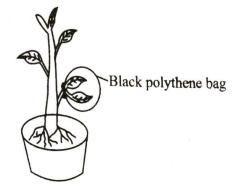
- 5. A mature ova is released from part M every 28 days through a process called; A. menstruation B. ovulation C. fertilization D. urination
- The most refracted colour of the 6. rainbow is; A violet R red

	D. 100
C. indigo	D. orange

7.	The following are methods of		
	controlling soil erosion. Which one is		
	not?		
	A. Contour ploughing		
	B. Planting cover crops		
	C. Digging along the slopes		
	D. Mulching		
8.	Which one of the following animal feeds .		
	is not classified as a concentrate?		
	A. Dairy meal		
	B. Silage		
	C. Sow and weaner		
	D. Growers mash		
9.	For a seed to germinate, the gas needed		
	is;		
	A. Nitrogen		
	B. Carbon dioxide		
	C. Argon		
	D. Oxygen		
10.	The component of soil being		
	investigated in the experiment below is;		
	Soil		
	eeeee		
	Dark blue		
	smelly smoke		
	Source of heat		
	A. water		
	B. organic matter		
	C. mineral particles		
	D. air		
11	Which and of the fallowing of the		

- 11. Which one of the following water-borne diseases can be controlled by draining stagnant water?
  - A. Bilharzia
  - B. Typhoid
  - C. Cholera
  - D. Malaria

- 12. Which one of the following objects has a definite volume but no definite shape?
  - A. A piece of chalk
  - B. Carbon dioxide
  - C. Kerosene
  - D. Sand
- 13. The experiment below was used to investigate a certain process in plants. The set-up was placed in the sunlight for a few days.



The process demonstrated above is;

- A. absorption in plants
- B. photosynthesis in plants
- C. transportation in plants
- D. transpiration in plants
- 14. In which of the following objects will sound travel the slowest?
  - A. Metal B. Wood
  - C. Water D. Air
- 15. The following are signs and symptoms of a certain water-borne disease.
  - i) Severe abdominal pains
  - ii) Violent diarrhoea with mucus
  - iii) Dehydration

The disease can be prevented by;

- A. wearing protective clothing
- B. draining stagnant water near the home
- C. boiling drinking water
- D. killing fresh water snails
- 16. Which one of the following mammals reproduces by laying eggs?

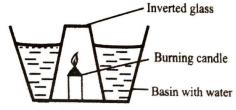
A. Bat

- B. Duck-billed platypus
- C. Ostrich
- D. Monkey

- 17. HIV/AIDS can be transmitted through the
  - following ways except;
  - A. sexual intercourse
    - B. sharing skin piercing tools
    - C. mosquito bites
    - D. mother-to child during delivery
- 18. The type of pollination shown in the diagram below is;



- A. insect pollination
- B. cross pollination
- C. self pollination
- D. wind pollination
- 19. The type of food responsible for growth of new tissues and repair of worn-out body parts is; A. proteins
  - B. carbohydrates D. mineral salts
  - C. vitamins
- 20. Which one of the following is a use of water in the industries?
  - A. Cooling machines
  - B. Cooking
  - C. Mixing acaricides
  - D. Boat riding
- 21. On which principle does a raingauge work?
  - A. Liquids occupies space
  - B. Liquids expands when heated and contract when cooled
  - C. Air in motion
  - D. Air is a mixture of gases
- 22. Std. 6 pupils did the experiment below.



All the following happens after some time except;

- A. the candle goes off
- B. water enters the glass

<ul> <li>C. water rises in the</li> <li>D. the level of water in the basin drops</li> <li>23. What were the pupils likely to be investigating?</li> <li>A. Oxygen is used in burning</li> <li>B. Oxygen is needed during photosynthesis</li> <li>C. Air has mass</li> <li>D. Air expands</li> <li>24. The smoothness or coldness of soil is known as;</li> <li>A. drainage</li> <li>B. capillarity</li> <li>C. water retention</li> <li>D. soil texture</li> <li>25. Which one of the following crops is not a tuber?</li> <li>A. Cassava</li> <li>B. Greengrams</li> <li>C. Yams</li> <li>D. Sweet potatoes</li> <li>26. Which one of the following parts of the male reproductive system is wrongly matched with its function?</li> <li>A. Testis - Produce sperms</li> </ul>	<ul> <li>29. Who among the following children ate a balanced diet? <ul> <li>A. Faith - Termites, groundnuts, pork</li> <li>B. Mary - Beef, mutton, fish</li> <li>C. Fidelis - Ugali, green grams, kales</li> <li>D. Alice -Potatoes, matoke, cabbage</li> </ul> </li> <li>30. The following are examples of rotational methods of grazing except; <ul> <li>A. strip grazing</li> <li>B. paddocking</li> <li>C. tethering</li> <li>D. herding</li> </ul> </li> <li>31. The air we breathe in is cleaned in the; <ul> <li>A. air sac</li> <li>C. bronchus</li> <li>D. mouth</li> </ul> </li> <li>32. Which one of the following boxes consists of body fluids through which HIV can be transmitted? <ul> <li>A.</li> <li>Blood</li> <li>Semen</li> <li>Blood</li> </ul> </li> </ul>
B. Spermduct - <i>Store sperms</i> C. Scrotum - <i>Regulate the temperature of</i>	B. D. Bile Mucus
the testis	Bile Mucus Breast milk Blood
D. Urethra - allow the passage of sperms	Vaginal fluid Urine
and urine outside the body	
27. Chrispine dropped a coin in water and it	33. Which one of the following diseases is
appeared raised as shown below.	<b>not</b> included in the immunization
	schedule for infants? A. Tetanus B. Tuberculosis
	C. Malaria D. Measles
	34. Which one of the following materials will
	allow some light to pass through but you
	cannot see through them clearly?
This is due to;	A. Frosted glass B. Mirror
A. splitting of the white light	C. Clean water D. Wood
B. refraction of light	35. The following are groups of cash crop
C. reflection of light	except; A. beverage crops B. oil crops
D. dispersion of light	A. beverage cropsB. oil cropsC. fibre cropsD. tuber crops
28. The tendency of an object to remain in its	36. Which one of the following is <b>not</b> a use
state either moving or stationary is	of water in the body?
known as;	A. Prevents the skin from drying
A. motion	B. Prevents constipation
B. gravity	C. Keeps the body tissues soft
C. weight D. inertia	D. Prevents the skin from drying
D. merua DISC/001	Scie/7

37. The diagram below shows a beam 43. When a force is applied on an object, the balance. following can happen except; A. make a stationary object start moving B. change the state of an object C. reduce the speed of a moving object D. stop a moving object It is used to: 44. Which method of weed control also A. measure the weight of objects conserves moisture? B. measure force of different objects A. Use of chemicals B. Slashing C. compare mass of different objects C. Digging out D. Mulching D. measure the volume of objects 45. The following are characteristics of all 38. The following are examples of legumes animals except they; in livestock feeds except; A. move from one place to another A. nappier grass B. lucerne B. transpire C. clovers D. desmodium C. remove waste 39. Which one of the following weeds is D. reproduce used as a vegetable? 46. The problem related to teeth shown in the A. Sodom apple **B.** Oxalis diagram below is called; C. Wandering jew D. Pigweed 40. Which one of the following cannot cause A. dental cavities B. bad breath death in animals? C. bleeding gums A. Starvation D. plaque B. Being killed by other animals 47. Which one of the following is not a C. Boredom characteristic of cumulus clouds? D. Old age A. They are low in the sky 41. Which one of the following is an effect of B. They have a flat base HIV/AIDS to the nation? C. They are white in colour A. Congestion in hospitals D. They look like bundles of cotton wool B. Low self-esteem 48. On a see-saw, a small boy can lift a big C. Loss of family income boy when; D. Sadness in the family A. they sit on the same side 42. The following are signs and symptoms of B. the two boys move equal distance from a certain communicable disease. the pivot i) Rise in body temperature. C. the big boy moves closer to the pivot ii) Headache D. the big boy sits further from the pivot iii) Pain in the joints 49. The phase of the moon that cannot be iv) Loss of appetite seen at all is: The disease described above can be A. full moon prevented through all the following ways B. gibbous C. crescent D. new moon except; 50. Which animal below does not have a A. drain stagnant water moist skin? B. covering all the surfaces of pools of A. Crocodile B. Frog water with oil C. Salamanda D. Toad C. immunization D. destroying empty containers