

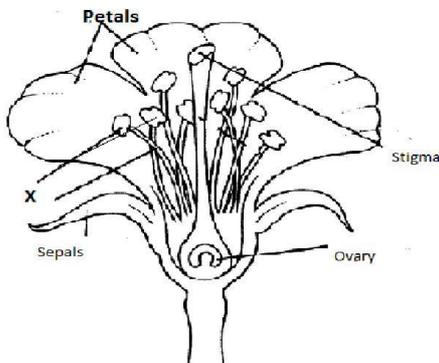
BASELINE EXAM
SCIENCE

FULL NAME _____

SCHOOL _____

Choose the best answer to the questions below.

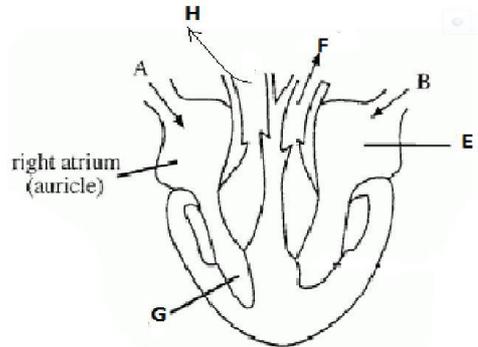
- 1.) Veins have valves because
- A. They carry oxygenated blood
 - B. They carry deoxygenated blood
 - C. They carry blood under low pressure
 - D. They carry blood under high pressure
- 2.) The diagram below shows a reproductive organ of a plant.



Which one of the following would NOT take place if the parts marked "X" are covered with a polythene bag?

- A. Production of pollen grains
 - B. Sepals turn green
 - C. Development of ovules to seeds
 - D. Falling off of petals
- 3.) Which one of the following groups consists of only food stuffs that provide the body with energy?
- A. lemon, cabbage, carrot
 - B. beans, ground nut, fish
 - C. maize, kale, meat
 - D. maize, potatoes, rice

- 4.) The diagram below represents a mammalian heart.



In which parts is the blood under higher pressure?

- A. A and F
 - B. F and B
 - C. F and H
 - D. B and E
- 5.) Which one of the following is not a rotational but controlled method of grazing?
- A. Tethering
 - B. Stall grazing
 - C. Strip grazing
 - D. Herding
- 6.) The following are effects of drug abuse:
- (i) lack of concentration
 - (ii) truancy
 - (iii) impaired judgment
 - (iv) rape
 - (v) addiction

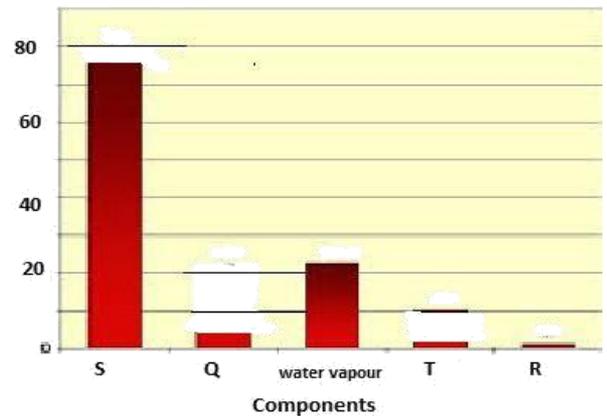
Which of them are all health effects?

- A. i, ii, iii
 - B. i, iii, v
 - C. ii, iii, v
 - D. ii, iv, v
- 7.) The process by which water is lost in the atmosphere from the soil is called:
- A. Condensation
 - B. Evaporation
 - C. Respiration
 - D. Transpiration

- 8.) The major problem which is faced by hydrophytes is
- Obtaining enough carbon dioxide from water.
 - Obtaining oxygen from water for the roots.
 - Waves make them unable to float on water.
 - Too much water standing on the leaf.

- 9.) The chart to the right represents approximate percentages of the components of air.

COMPONENTS OF AIR IN PERCENTAGE (%)

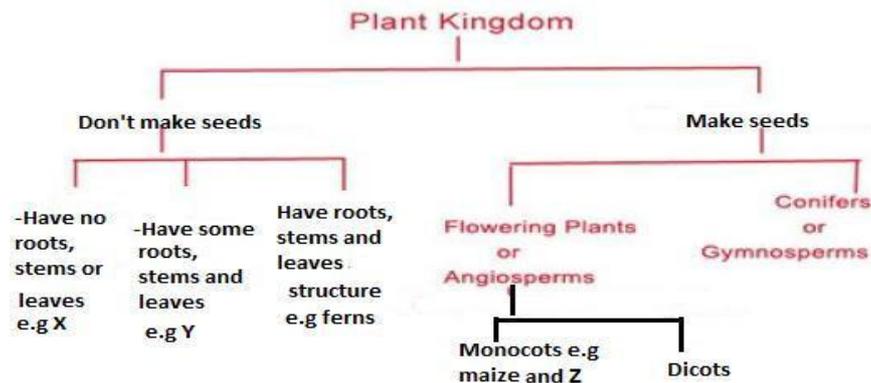


Which portion represents the gas that is used as food preservative?

- S
- Q
- T
- R



- 10.) The chart below shows simple classification of plants:



Which plants are represented by letters X, Y, and Z respectively?

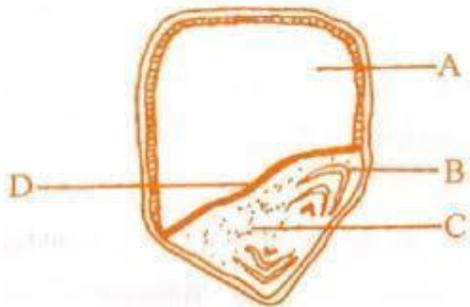
- Fern, Moss, Toadstool
 - Bracket tree, Pine, Moulds
 - Hibiscus, Moss, Bracket Tree
 - Algae, Moss, Hibiscus
- 11.) The main reason why infants are introduced to colostrum immediately is that
- it contains all food nutrients.
 - it boosts the baby's immunity.
 - it is free from disease-causing organisms.
 - it is available in the correct form and at the right temperature.

12.) In which one of the following processes is oxygen NOT used?

- Germination
- Combustion
- Rusting
- Photosynthesis

- 13.) Which one of the following shows the correct order of energy changes that takes place when a battery radio is turned on?
- A. chemical → electrical → sound → magnetic
 - B. electrical → magnetic → chemical → sound
 - C. chemical → electrical → magnetic → sound
 - D. electrical → chemical → sound → magnetic

- 14.) The diagram below represents a cross section of a maize grain:



Which of the following parts of plants marked V, W, X, Y, and Z make up the embryo?

- A. D and C
 - B. A and B
 - C. B and C
 - D. D and A
- 15.) Ombogo saw white, thin feather-like clouds in the sky. What is the name of the clouds that he saw?
- A. Nimbus
 - B. Stratus
 - C. Cumulus
 - D. Cirrus

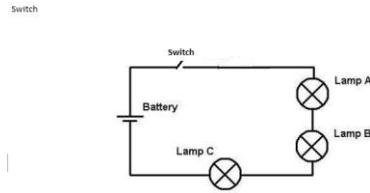
- 16.) Below is a food chain in a given grassland.

Sweet potatoes → locusts → newts → snakes → secretary birds.

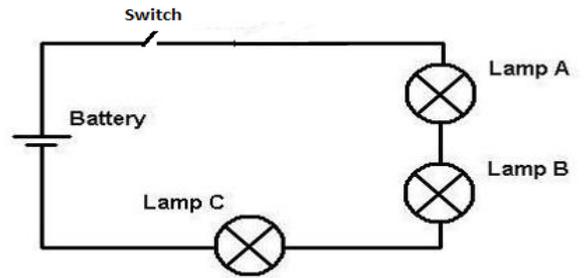
What would most likely happen immediately after all the snakes were killed?

- A. Locusts would decrease in number.
- B. Secretary birds would die.
- C. Newts would decrease in number.
- D. The amount of sweet potatoes would increase.

- 17.) Which one of the following works in the same way as tin snips?



- 18.)



- A. Open the switch
- B. Change the socket
- C. Remove lamp C
- D. Close the switch

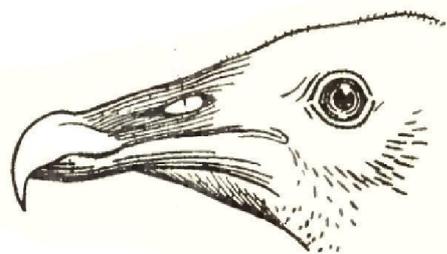
- 19.) Which one of the following sources of energy is renewable?

- A. Coal
- B. Biogas
- C. Petrol
- D. Kerosene

- 20.) Which one of the following groups of diseases consists of immunizable diseases only?

- A. Measles, Malaria, Tuberculosis
- B. Diptheria, Tetanus, Polio
- C. Polio, Marasmus, Diptheria
- D. Whooping cough, Cholera, Tetanus

- 21.) The diagram below shows the beak of a certain bird.



The bird most likely feeds on?

- A. nuts
- B. nectar
- C. flesh
- D. grasshoppers

22.) The streamlined body of a fish is useful when it is—

- A. Moving
- B. Breathing
- C. Feeding
- D. Breeding

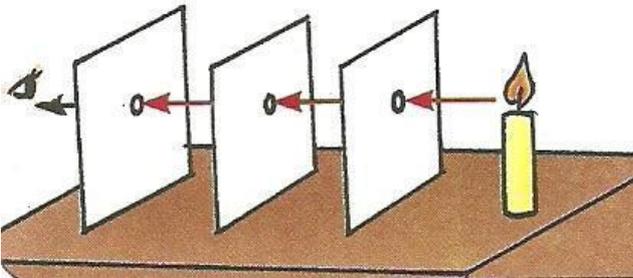
23.) Which one of the following groups of drugs contains illegal drugs only?

- A. Cocaine, Mandrax, Bhang
- B. Bhang, Alcohol, Khat
- C. Mandrax, Tobacco, Inhalants
- D. Alcohol, Tobacco, Miraa

24.) In which class of lever does the spoon belong?

- A. First class
- B. Third class
- C. Second class
- D. Combined lever

25.) Std. 6 pupils from Shupavu Primary carried out the experiment shown below during their science lesson:



From the experiment they concluded that:

- A. Light can be reflected.
- B. Light travels in all directions.
- C. Light travels in a straight line.
- D. Light passes through translucent materials.

26.) Which of the following shows the excretory products of the lungs?

- A. Urea and excess water.
- B. Carbon dioxide and excess water.
- C. Excess mineral salts and carbon dioxide.
- D. Carbon dioxide and urea.

27.) Which of the following is NOT a method of preventing Malaria?

- A. Sleeping under a treated mosquito net.
- B. Cutting grass around the house.
- C. Treating drinking water.
- D. Taking anti-Malaria drugs.

28.) Which one of the following is the main reason why one easily slides on a smooth surface?

- A. The pressure of the person on the surface is reduced
- B. Reduced opposing forces between the person and the surface
- C. Increased friction between the person and the surface
- D. Reduced gravity on the person

29.) The most common compound found in all environments is:

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

30.) The two gasses that dissolve in water to form acid rain are:

- A. Hydrogen and oxygen
- B. Sulfur dioxide and Carbon dioxide
- C. Hydrogen and nitrogen
- D. Nitrogen and carbohydrates

31.) The process by which underground water reaches the top soil is known as:

- A. Diffusion
- B. Capillarity
- C. Saturation
- D. Evaporation

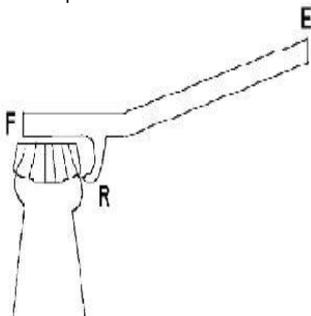
32.) State the stages of development of the human egg after fertilization to the time of birth.

- A. zygote → foetus → embryo → baby
- B. embryo → foetus → zygote → baby
- C. zygote → embryo → foetus → baby
- D. foetus → embryo → zygote → baby

- 33.) One of the following practices does not help to conserve water. Which one is it?
- Mulching
 - Overhead irrigation
 - Drip irrigation
 - Recycling water from factory

- 34.) It is TRUE to state that the environment is:
- Composed of soil, air, water only
 - All that which surrounds an organism
 - The habitat of an organism
 - Composed of plants and animals

- 35.) The diagram below shows a bottle opener at work.



What are the positions marked F, R, and E respectively?

- fulcrum, load, effort
 - load, fulcrum, effort
 - load, effort, fulcrum
 - effort, fulcrum, load
- 36.) The tail of a wind vane is pointing to the East. The wind must be blowing from
- West to East
 - South to North
 - North to South
 - East to West
- 37.) What functions do roughages play in the body?
- provide protein
 - provide carbohydrates
 - provide vitamins and nutrients
 - help in the digestion of food
- 38.) Which of these statements about liquids is NOT TRUE?
- They have no definite shape.
 - They can contract and expand
 - They have no definite volume
 - They have a definite shape

- 39.) The name given to the substances that are formed on water pipes by hard water is—
- foam
 - lather
 - scum
 - scales

- 40.) The following are symptoms of Bilharzia, except,
- blood in the urine and faeces
 - abdominal pain
 - being anaemic
 - chronic diarrhoea

- 41.) The diagram below was used by students of Mwalimoo primary school to carry out an investigation.



The students wanted to ___

- show how the length of strings used affects the mass of different materials.
 - show how materials on a balance move up and down
 - show the difference in the masses of two materials
 - show how long two plates can hang on strings
- 42.) The following are characteristics of a given weed:
- stem grows along the ground
 - does not easily dry
 - keeps branching in different directions
 - leaves are either green or purple

The weed described is—

- Mexican Merigold
- Wondering Jew
- Sodom apple
- Pig weed

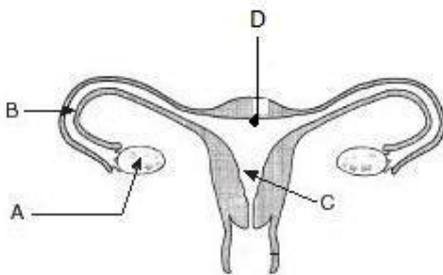
43.) Which of these changes is not a physical change during adolescence?

- A. growth of beard
- B. broadening of shoulders
- C. enlargement of breast
- D. showing moodiness

44.) Which one of the following is not a part of the breathing system?

- A. diaphragm
- B. oesophagus
- C. bronchiole
- D. Trachea

45.) The diagram below represents the female human reproductive system.



What happens at D?

- A. Fertilization
- B. Implantation
- C. Ovulation
- D. Foetal growth

46.) Which of the following vaccines is not introduced into the body through an injection?

- A. Malaria
- B. BCG
- C. Polio
- D. Typhoid

47.) Hard water can be made into soft water by:

- A. Adding soap
- B. Cooling
- C. Boiling
- D. Adding salt

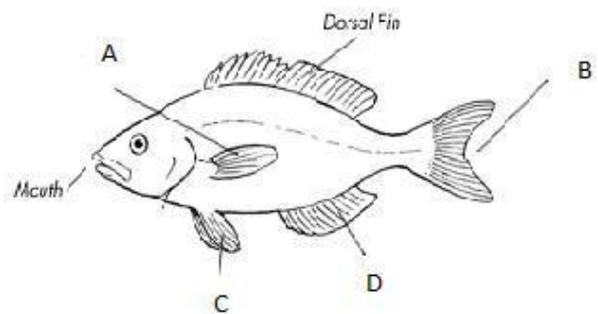
48.) Which substance is found in tobacco that makes it addictive to the user?

- A. tar
- B. nicotine
- C. carbon dioxide
- D. carbon monoxide

49.) One of the following aspects of an object cannot be changed:

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

50.) The following diagram represents a fish.



What are the names of the fins labeled A,B, C,D respectively?

- A. Pectoral, caudal, pelvic, anal.
- B. Dorsal, adipose, pelvic, gill
- C. Pectoral, adipose, anal, dorsal
- D. Caudal, pectoral, pelvic, anal