2011 BECE- INTEGRATED SCIENCE 1 Q&A

OBJECTIVE TEST 45 minutes

1. An example of a noble gas is

D. Sharing towels and sponges

A. chlorine B. neon

C. nitrogen D. oxygen 2. The structure that stores sperms temporarily in the male reproductive system of humans A. epididymis B. scrotal sac C. sperm duct D. testes 3. Which of the following properties of alcohol as a thermometric liquid is correct? A. It is opaque B. It does not wet glass C. It has a very low freezing point D. It has a high freezing point 4. In which of the following vegetation zones of Ghana does millet and sorghum grow well? A. Coastal savannah B. Forest zone C. Guinea savannah D. Transition zone 5. Which of the following methods is/are used for preserving fish? I. Canning II. Frying III. Smoking A. I only B. I and II only C. II and III only D. I, II and III 6. Which of the following practices in the home can prevent disease infection? A. Covering one's food B. Drinking unclean water C. Keeping one's surroundings untidy

7. An example of a semimetal is A. calcium B. lithium C. silicon D. sodium
8. Which kind of energy transformation takes place in an electric motor? A. Chemical energy to electrical energy B. Chemical energy to mechanical energy C. Electrical energy to light energy D. Electrical energy to mechanical energy
9. Landrace is a breed of A. cattle B. goats C. pigs D. sheep
10. In flowering plants, the stamen is made up ofA. anther and stigmaB. anther and filamentC. stigma and filamentD. stigma and style
11. Which of the following statements about a transistor is correct? A. It can be used to amplify current B. It is similar to three diodes C. It consists of two leads only D. It has three junctions 12. An atom has 6 protons and 7 neutrons in its nucleus. What is its mass number? A. 1 B. 6 C. 7 D. 13
13. A record of daily activities on a farm is termed A. labour record B. inventory record C. farm diary D. production record
14. Which of the following devices work(s) on the principle of transmission of pressure in fluids? I. Water pumps II. Syringes

III. Bicycle brakes A. I only B. I and II only C. II and III only D. I, II and III
 15. Which of the following crops is not correctly matched with its group? A. Cowpea – cereal crop B. Cocoa – beverage crop C. Coconut – oil crop D. Cocoyam – tuber crop
16. Which of the following substances is a salt? A. H2SO4 B. NaOH C. HCl D. CaCl2
17. In which part of the digestive system of a fowl does grinding of feed take place?A. CropB. GizzardC. OesophagusD. Proventriculus
18. The parts of a bony fish that are used to control the level at which the fish swims are known as A. dorsal and caudal fins B. caudal and pectoral fins C. pectoral and pelvic fins D. dorsal and pectoral fins
19. Million's reagent is used to test for A. carbohydrates B. fats C. proteins D. vitamins
20. In an n-p-n transistor, the n-type collector is connected to the positive terminal of the battery thus making the A. base-collector junction reverse biased B. base-collector junction forward biased C. base-emitter junction reverse biased D. base-emitter junction forward biased

21. Which type of vegetation favours both wet and hot environmental conditions? A. Strand and mangrove B. Coastal savannah C. Guinea savannah D. Tropical forest
22. During drought, some plants dry out because of high I. atmospheric temperature II. humidity III. rate of evaporation Which of the statements above is/are correct? A. III only B. I and II only C. I and III only D. I, II and III
23. Soil erosion on sloppy farmlands is best controlled by A. cover cropping B. mulching C. strip cropping D. terracing
24. A viable seed is one thatA. germinates under suitable conditionsB. contains oilC. develops from fertilized ovaryD. has a pericarp
25. Which of the following pairs of structures form part of the female reproductive system of humans? A. Urethra and uterus B. Cervix and uterus C. Ureter and uterus D. Cervix and ureter
26. Which of the following chemical symbols is that of a metal? A. Ca B. Ne C. P D. S
27. All the living and non-living things that surround an organism constitute its A. community B. ecosystem

C. environment D. habitat
28. Which of the following crops should be planted after cassava in crop rotation? A. Cocoyam B. Cowpea C. Onion D. Yam
29. Endoparasites in farm animals can be controlled by A. drenching B. dipping C. dusting D. spraying
30. Which of the following devices requires the use of transistors in its operation? A. Computer B. Electric heater C. Microphone D. Wall clock
31. Feel Method is used to determine soil A. air b. colour C. structure D. texture
32. Which of the following modes of heat transfer is the thermos flask designed to minimize? I. Conduction II. Convection III. Radiation A. I and II only B. I and III only C. II and III only D. I, II and III
33. An atom of an element is represented as neutrons and protons in the atom? A. 12 and 13 B. 12 and 25 C. 13 and 12 D. 25 and 12

34. The anemometer is an instrument used in determining A. amount of rainfall B. speed of wind C. relative humidity D. intensity of light
35. Which of the following subjects is/are considered as applied science? I. Biology II. Medicine III. Psychology A. I only B. I and II only C. I and III only D. II and III only
36. <i>Chinchilla</i> is a breed of A. goats B. pigs C. rabbits D. sheep 37. Which of the following characters is not acquired through heredity? A. Language spoken B. Shape of nose C. Colour of eyes D. Temperament
38. The food nutrient which ensures good health in farm animals is A. carbohydrates B. minerals C. proteins D. vitamins
39. The use of resistant breeds of farm animals to control pests is a A. biological method B. chemical method C. cultural method D. physical method
40. Which of the following arrangements show the correct order of increasing complexity of structures in living organisms? A. cells → organs → tissues → systems B. cells → tissues → organs → systems C. cells → systems → tissues → organs D. cells → tissues → systems → organs

OBJECTIVE TEST

- 1. B. neon
- 2. A. epididymis
- 3. C. It has a very low freezing point
- 4. C. Guinea savannah
- 5. D. I, II and III
- 6. A. Covering one's food
- 7. C. silicon
- 8. D. Electrical energy to mechanical energy
- 9. C. pigs
- 10. B. anther and filament
- 11. A. It can be used to amplify current
- 12. D. 13
- 13. C. farm diary
- 14. D. I, II and III
- 15. A. Cowpea cereal crop
- 16. D. CaCl2
- 17. B. Gizzard
- 18. C. pectoral and pelvic fins
- 19. C. proteins
- 20. A. base-collector junction reverse biased
- 21. D. Tropical forest
- 22. C. I and III only
- 23. D. terracing
- 24. A. germinates under suitable conditions
- 25. B. Cervix and uterus
- 26. A. Ca
- 27. C. environment
- 28. B. Cowpea
- 29. A. drenching
- 30. A. Computer
- 31. D. texture
- 32. D. I, II and III
- 33. C. 13 and 12
- 34. B. speed of wind
- 35. D. II and III only
- 36. C. rabbits
- 37. A. Language spoken
- 38. D. vitamins
- 39. A. biological method
- 40. B. cells \rightarrow tissues \rightarrow organs \rightarrow system