

BECE INTEGRATED SCIENCE 2011

Paper 1

Objective Test – Questions & Answers

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INTEGRATED SCIENCE

PAPER 1 – OBJECTIVE TEST

45 MINUTES

1. An example of a noble gas is

- A. chlorine
- B. neon
- C. nitrogen
- D. oxygen

A

2. The structure that stores sperms temporarily in the male reproductive system of humans is

- A. epididymis
- B. scrotal sac
- C. sperm duct
- D. testes

A

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

C

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

C

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

D

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
- D. Sharing towels and sponges

A

7. An example of a semimetal is

- A. calcium
- B. lithium

- C. silicon
- D. sodium

C

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

D

9. Landrace is a breed of

- A. cattle
- B. goats
- C. pigs
- D. sheep

C

10. In flowering plants, the stamen is made up of

- A. anther and stigma
- B. anther and filament
- C. stigma and filament
- D. stigma and style

B

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

A

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

D

13. A record of daily activities on a farm is termed

- A. labour record
- B. inventory record
- C. farm diary
- D. production record

C

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

D

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

A

16. Which of the following substances is a salt?

- A. H_2SO_4
- B. NaOH
- C. HCl
- D. $CaCl_2$

D

17. In which part of the digestive system of a fowl does grinding of feed take place?

- A. Crop
- B. Gizzard
- C. Oesophagus
- D. Proventriculus

B

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

C

19. Million's reagent is used to test for

- A. carbohydrates
- B. fats
- C. proteins
- D. vitamins

C

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

A

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

D

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

C

23. Soil erosion on sloppy farmlands is best controlled by

- A. cover cropping
- B. mulching
- C. strip cropping
- D. terracing

D

24. A viable seed is one that

- A. germinates under suitable conditions
- B. contains oil
- C. develops from fertilized ovary
- D. has a pericarp

A

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

B

26. Which of the following chemical symbols is that of a metal?

- A. Ca
- B. Ne
- C. P
- D. S

A

27. All the living and non-living things that surround an organism constitute its

- A. community
- B. ecosystem
- C. environment
- D. habitat

C

28. Which of the following crops should be planted after cassava in crop rotation?

- A. Cocoyam
- B. Cowpea
- C. Onion
- D. Yam

B

29. Endoparasites in farm animals can be controlled by

- A. drenching
- B. dipping
- C. dusting
- D. spraying

A

30. Which of the following devices requires the use of transistors in its operation?

- A. Computer
- B. Electric heater

- C. Microphone
- D. Wall clock

A

31. Feel Method is used to determine soil

- A. air
- b. colour
- C. structure
- D. texture

D

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

D

33. An atom of an element is represented as ${}_{12}^{25}\text{X}$. What is the respective number of neutrons and protons in the atom?

- A. 12 and 13
- B. 12 and 25
- C. 13 and 12
- D. 25 and 12

C

34. The anemometer is an instrument used in determining

- A. amount of rainfall
- B. speed of wind
- C. relative humidity
- D. intensity of light

B

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

D

36. Chinchilla is a breed of

- A. goats
- B. pigs
- C. rabbits
- D. sheep

C

37. Which of the following characters is not acquired through heredity?

- A. Language spoken
- B. Shape of nose
- C. Colour of eyes
- D. Temperament

A

38. The food nutrient which ensures good health in farm animals is

- A. carbohydrates
- B. minerals
- C. proteins
- D. vitamins

D

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

A

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

B

END OF PAPER

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**..by the name of
Jesus Christ ..
whom you crucified,
whom God raised
from the dead..**

Acts 4: 10