WASSCE INTEGRATED SCIENCE 2015

(Paper 1, Q26 to 50)

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26. The efficiency of a machine is always less than 100% due to

A. its high mechanical advantageB. the greater load to effort ratioC. the work done when operatingD. the work done against friction

27. Which of the following pairs of compounds will produce an ester when warmed with few drops of concentrated sulphuric acid?

- A. Ethanol and ethane
- B. Ethanol and ethanoic acid
- C. Ethane and ethanoic acid
- D. Ethanoic acid and ethane

28. The use of watering can is necessary in crop production

A. after harvesting of the field crops

B. during rainy season

C. when the crops are at the nursery stage D. when the farm is far from the source of water

29. Which of the following joints allow movement in all directions?

- A. ball and socket jointsB. hinge jointsC. gliding joints
- D. pivot joint

30. A car traveling at a uniform speed of 40.0 ms⁻¹ covers the distance between

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two stations in 3 minutes. Calculate the distance between the stations

A. 0.2 km B. 2.4 km C. 4.8 km D. 8.0 km

31. Which of the following processes is associated with rusting of iron? It

A. is a physical change
B. takes place in the presence of dry air
C. releases carbon dioxide
D. produces an oxide of iron

32. Aristotle classification of living organisms was based on the

A. appearance and movement of the organisms
B. structural similarities and differences in the organism
C. anatomical and histological differences in the organisms
D. evolutionary trends in the organisms

33. Which of the following crops is stored in barns?

A. cassava B. cowpea C. pineapple D. yam

34. Which of the following statements about the diagram below is correct?



A. Portion X is called penumbra **Ghana5.com** [2]

B. Portion Y is called umbra

- C. Illustrates an eclipse of the sun
- D. Illustrates an eclipse of the moon

35. A test for hydrogen in the laboratory is

A. a characteristic irritating smellB. a 'pop' sound produced with a glowing splintC. production of pungent smell

D. rekindling of glowing splint

36. Fats and oils are the esters formed from the reaction between

A. glycerine and long chain fatty acidsB. glycerol and long chain fatty acidsC. glycerine and sodium hydroxideD. glycerol and sodium hydroxide

37. When a cube of sugar is treated with concentrated sulphuric acid, a black product is formed due to

A. dehydration
B. esterification
C. oxidation
D. neutralization

38. A piece of metal of volume 25 cm³ has a mass of 45 g. Determine its density in kg m³

A. 0.56×10^{3} kg m⁻³ B. 1.80×10^{3} kg m⁻³ C. 5.66×10^{3} kg m⁻³ D. 1.80×10^{4} kg m⁻³

39. Which of the following methods cannot be used to protect iron against rust?

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A. enameling B. galvanizing C. painting D. riveting

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40. Which of the following statements about inhaled air and exhaled air is correct?

A. Exhaled air contains more oxygen than inhaled air
B. Inhaled air contains same amount of oxygen as exhaled air
C. Inhaled contains more carbon dioxide than exhaled air
D. Exhaled air contains more carbon dioxide than inhaled air

41. Sound energy can be converted into an electrical energy by

A. amplifier B. loudspeaker C. microphone D. radio

42. An onion bulb can be described as one which

A. grows horizontally underground and has long internodes
B. grows obliquely from and underground parts of the parent plant
C. has fibrous roots arising from the base and a short conical stem that grows vertically

D. has thick horizontal stem and adventitious roots arising from the nodes

43. Which of the following effects are associated with late harvesting of maize?

I. increase in crop yield
II. rain may cause grain to rot
III. weevils may attack and destroy grain
IV. exposure of maize to attacks by birds and rodents

[4]

A. I and II only

- B. III and IV only
- C. I, II and III only
- D. II, III and IV only

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44. A quantity of NaCl was dissolved in 100.0 cm³ of solution to obtain 0.54 M NaCl solution. Determine the mass of NaCl used [Na = 23, Cl = 35.5]

A. 2.93 g B. 5.85 g C. 29.25 g D. 58.50 g

45. The scrotum which contains the testes is located externally because

A. The sperms will be too far away from the egg if the scrotum is placed internally
B. It will take up too much space in the abdomen
C. The temperature for sperm production should be higher than the body temperature
D. The temperature for sperm production should be lower than the body temperature

46. Atmospheric air is a mixture because it

A. supports combustion

- B. can be liquefied
- C. contains more than two elements
- D. has no definite composition

47. The structure that covers the opening of the trachea during swallowing and prevents food from entering it is the

A. epiglottis B. lungs C. pharynx D. rib cage

48. Blinking of the eye is considered as a reflex action because it is

- A. a delayed response
- B. initiated from the cerebrum
- C. an automatic response
- D. under the control of the cerebellum

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49. Which of the following organisms is an ectoparasite?

- A. Housefly B. Liver fluke C. Tapeworm
- D. Tick

50. The true stomach of a ruminant is the

A. Abomasum B. Omasum C. Reticulum D. Rumen

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