2014 BECE - INTEGRATED SCIENCE [PAPER 1] OBJECTIVE TEST 45 minutes

1.	Which	of the following types of teeth is used by mammals to tear food material?	
	A.	Canines	
	B.	Incisors	
	C.	Molars	
	D.	Premolars	
2.	The eclipse formed when the moon comes between the sun and the earth is known as		
	A.	annular eclipse	
	B.	lunar eclipse	
	C.	solar eclipse	
	D.	total eclipse	
3.	The element with the chemical symbol S is		
	A.	silicon	
	B.	silver	
	C.	sodium	
	D.	sulphur	
4.	The term leaching in soils refers to		
	A.	accumulation of organic matter	
	B.	decomposition of plant material.	
	C.	fixation of nitrogen	
	D.	removal of soil nutrients by water.	
5.	Which of the following statements about a plant cell is correct ? It		
	A.	does not have a nucleus	
	B.	contains large vacuoles	
	C.	is surrounded by the cell membrane only	
	D.	does not have a definite shape	
6.	An example of a <i>derived quantity</i> is		
	A.	length	
	B.	mass	
	C.	temperature	
	D.	volume	
7.	Solid n	on-metals normally break into pieces when hammered because they are	

brittle

ductile

lustrous

A.

B. C.

8.	Young rabbits are called		
	A.	bunnies	
	B.	cubs	
	C.	fingerlings	
	D.	kids	
9.	9. Producers in an ecosystem are plants that		
	A.	attract insects	
	B.	feed on other plants	
	C.	feed on dead materials	
	D.	manufacture their own food.	
10.	The form of energy produced from the nucleus of an atom is termed		
10.	A.	chemical energy	
	В.	mechanical energy	
	Б. С.	nuclear energy	
	D.	thermal energy	
	D.	thermal chergy	
11.	Which of the following elements is a semi-metal?		
	A.	Carbon	
	B.	Nitrogen	
	C.	Silicon	
	D.	Sodium	
12.	A system of farming that leads to continuous destruction of virgin forest is		
12.	A.	mixed farming	
	В.	mixed cropping	
	C.	pastoral farming	
	D.	shifting farming	
	Д.	shirting farming	
13.	The by-pro	oducts of respiration are	
	A.	carbon dioxide and heat	
	B.	carbon dioxide and water	
	C.	oxygen and heat	
	D.	oxygen and water.	
14.	Which of	the following statements about a force are correct ? It	
	I is measured in newtons		
		measured in newtons measured in newton-metre	
	III can start a motion IV can change the direction of a moving body.		
	1 V C	in change the direction of a moving body.	

malleable

I and II only

A.

D.

	B.	I and III only	
	C.	I, III and IV only	
	D.	I, II, III and IV	
15.	Which of the following substances is a solid-gas mixture?		
	A.	Lather	
	B.	Bronze	
	C.	Steel	
	D.	Smoke	
16. Weeds on a school farm could be controlled by		a school farm could be controlled by	
	A.	handpicking	
	B.	mowing	
	C.	ploughing	
	D.	tilling	
17. An example of a non-living tissue used in osmosis experiment is		le of a non-living tissue used in osmosis experiment is	
	A.	cellophane	
	B.	filter paper	
	C.	potato	
	D.	polythene	
18.	8. Kerosene is poured on the surface of a pond in order to		
	A.	make it unsafe for human consumption	
	B.	make it safe for animal consumption	
	C.	increase the surface tension	
	D.	break the surface tension	
19.	Which of	the following processes is used to separate insoluble solids from liquids?	
	A.	Crystallization	
	B.	Evaporation	
	C.	Filtration	
	D.	Sublimation	
20.	The proce	ss of removing unproductive poultry birds from a flock is referred to as	
	A.	candling	
	B.	culling	
	C.	dehorning	
	D.	drenching	
21.	Which of the following pairs of diseases can be spread easily when food is exposed to houseflies?		
	A.	Dysentery and malaria	
	B.	Malaria and tuberculosis	
	C.	Dysentery and cholera	
	D.	Cholera and tuberculosis	

22. The pressure in fluids				
	A.	acts differently in all directions		
	B.	acts upwards at any point		
	C.	decreases with depth		
	D.	increases with depth		
23. Which of the following processes involve a change in the state of		the following processes involve a change in the state of matter from liquid to solid?		
	A.	Beans		
	B.	Bread		
	C.	Cabbage		
	D.	Egg		
24.	Which of the following food items contains the highest amount of dietary fibre?			
	A.	Beans		
	B.	Bread		
	C.	Cabbage		
	D.	Egg		
25. An example of a disease vector is		ole of a disease vector is		
	A.	earthworm		
	B.	liver fluke		
	C.	tapeworm		
	D.	tick		
26.	Which of	Which of the following devices is made of semiconductor?		
	A.	Capacitor		
	B.	Inductor		
	C.	Resistor		
	D.	Transistor		
27.	Which of	the following statements about the properties of water are correct ? It		
	I. is	s colourless and tasteless		
	II. is neutral to litmus paper			
	III.tı	urns red litmus paper blue		
	IV.	is a universal solvent		
	A.	I and II only		
	B.	I and III only		
	C.	I, II and IV only		
	D.	I, III and IV only		
28.	The study	of the soil profile of an area helps the farmer to		
	A.	control weed growth		

B.

determine the soil temperature

	C.	determine the types of crop to grow.	
	D.	know the pesticides to use.	
29.	When a green leaf is placed in a test tube containing ethanol and heated over a water bath the leaf		
	Α.	becomes soft	
	B.	changes colour to brown	
	C.	changes colour to blue-black	
	D.	is decolourized.	
30.	Which of the following sources of energy is / are renewable?		
	I.	Solar	
	II.	Crude oil	
	III.	Wind	
	A.	I only	
	В.	I and II only	
	C.	I and III only	
	D.	I, II and III	
31.	Which of the following substances is a compound?		
	A.	Hydrogen	
	В.	Nitrogen	
	C.	Oxygen	
	D.	Water	
32. A disease-causing organism t		e-causing organism that is most difficult to control in crop production is	
	A.	bacterium	
	B.	fungus	
	C.	nematode	
	D.	virus	
33.	Which o	f the following organisms is/ are multicellular?	
	I.	Amoeba	
	II.	Paramecium	
	III.	Onion	
	A.	I only	
	B.	III only	
	C.	I and III only	
	D.	II and III only	
34.	In electronic circuits, LEDs are used to indicate the absence or presence of		
	A.	emitter and collector	
	B.	electric current	

C.

p-n junction

	D.	voltage source.
35.	35. Steel is an alloy of iron and	
	A.	aluminium
	B.	carbon
	C.	silicon
	D.	gold
36.	Soil aeration could be improved through	
	A.	mulching
	B.	irrigation
	C.	soil drainage
	D.	fertilizer application
37. Which of the following pairs of structures are part of the		the following pairs of structures are part of the respiratory system of humans?
	A.	Fallopian tube and alveoli
	B.	Pharynx and oesophagus
	C.	Trachea and alveoli
	D.	Trachea and duodenum
38. Which of the following effects is not a result of illegal connections.		the following effects is not a result of illegal connection of electricity? It can
	A.	lead to fire outbreak
	B.	lead to frequent power cut-off
	C.	increase the flow of current in the supply chain.
	D.	cause damage to electrical appliance
39.	Which of	the following statements about the scientific method is / are correct? It provides
		ogical procedure for arriving at knowledge.
		nowledge that can be verified
	III.kı	nowledge that can never be changed
	A.	I only
	В.	I and II only
	C.	I and III only
	D.	II and III only
40.	-	reneur's decision as to what to produce is a/ an
	A.	co-ordinating function
	B.	organizing function
	C.	planning function
	D.	supervising function.