Now answer the following questions.

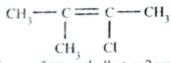
1.	The process by which liquid changes into vapour at a particular temperature is known as				
	A.	boiling.			
	B.	condensation.'			
	C.	evaporation.			
	D.	melting.			
2.	Which of the following organisms has neither a nucleus nor membrane bound organelles?				
	A.	Bacteria			
	B.	Mucor			
	C.	Paramecium			
	D.	Spirogyra			
3.	A dibber is used for				
	A.	dehusking.			
	B.	pruning.			
	C.	thinning.			
	D.	planting.			
4.	An electric bulb is rated 120 W and 240 V. Determine the current it draws from the mains.				
	A.	0.5 A			
	В.	0.6 A			
	C.	1.0 A			
	D.	2.0 A			

		A second section of the				
5.		The layer of the atmosphere in which air travel is most convenient is				
	A.	mesosphere.				
	В.	stratosphere.				
	C.	thermosphere.				
	D.	troposphere.				
6.	An ag	An agricultural system in which crops and animals are produced on the same piece of land at the same time				
	is ten	is termed				
	A.	continuous cropping.				
	В.	mixed cropping.				
	C.	mixed farming.				
	D.	pastoral farming.				
7.		pea plants are used in crop rotation system of farming so that				
	A.	grazing animals would not destroy the crops.				
	В.	nitrates would be added to the soil.				
	C.	soil erosion could be checked.				
	D.	weeds would be suppressed.				
8.		The angle of reflection of a ray is 40°. Determine the angle between the surface of the mirror and				
	the ra					
	A.	40°				
	В.	50°				
	C.	80°				
	D.	180°				
9.	Fluic	Fluid consists of				
	A.	solid and liquid only.				
	В.	liquid and gas only.				
	C.	gas and solid only.				
	D.	liquid, solid and gas.				
10.	Whi	Which of the following compounds is a neutral oxide?				
	A.	CO,				
	B.	NO,				
	C.	MgO				
	D.	CO				
11.	For	For grafting to be successful, the scion and stock must be of the same				
	Α.	size.				
	В.	length.				
	C.	diameter.				
	D.	texture.				
12	A 000	s that gives a non sound with a flame is				
12.		A gas that gives a pop sound with a flame is A. ammonia.				
	A.	carbon (IV) oxide.				
	B.					
	C.	hydrogen.				
	D.	nitrogen.				

1.3	Fifteen children from a class of 45 roll tongues. What percentage of the class are rollers			
	Α.	25.3 %		
	13.	33.3 %		
	C.	35.3 %		
	D.	75.3 %		
14.	The m	najor cause of post-harvest loss of stored millet in Ghana is		
	A.	bird attack.		
	В.	insect attack.		
	C.	mechanical injury.		
	D.	high humidity.		
15.	Examples of plants with rhizome are			
	A.	ginger and fern.		
	В.	onion and ginger.		
	C.	yam and Irish potato.		
	D.	onion and ferns.		
16.	The management practice which makes the transport of farm animals easy is			
	A.	castration.		
	В.	dehorning.		
	C.	identification.		
	D.	quarantine.		
17.	Breeds of fowl which are reared for the purpose of producing meat are called			
	A.	broilers.		
	В.	chicks.		
	C.	hens.		
	D.	layers.		
18.	The set-up used to separate water from ethanol should include			
	A.	separating funnel.		
	В.	burette.		
	C.	condenser.		
	D.	volumetric flask.		
19.	Which of the following statements about sea breeze are correct? Sea breeze occurs			
	I.	during the day.		
	11.	during the night.		
	Ш.	as a result of convection currents.		
	A.	I and II only		
	В.	I and III only		
	C.	II and III only		
	D.	I, II and III		
20.	Mineral salts from the soil pass into the root hair cells by			
	A.	tugor pressure.		
	В.	active transport.		
	C.	osmosis.		
	D.	capillarity.		
		, ,		

- compost.
- B. farmyard manure.
- green manure.
- D. urea.
- 23. Two resistors each 5 Ω are connected in parallel. Determine their effective resistance.
 - A. 2.5Ω
 - B. 6.4 Ω
 - C. 10.0Ω
 - D. 25.0 Ω
- 24. A person who suffers from myopia
 - cannot see at all.
 - B. can see clearly from far.
 - C. can see clearly objects closer.
 - D. wears a converging lens for correction.
- 25. An example of a wind instrument is
 - A. flute.
 - B. guitar.
 - C. violin.
 - D. xylophone.
- 26. Which of the following statements about compounds are correct?
 - They are products of chemical combination.
 - II. Their constituents are present in fixed ratio by mass.
 - III. Their constituents keep their individual properties.
 - A. I and II only
 - B. I and III only
 - C. II and III only
 - D. I, II and III
- 27. The equivalent of 161 K in degree celcius is
 - A. 161 ° C
 - B. 112 ° C
 - C. -112 ° C
 - D. -161 ° C
- 28. Which of the following processes uses solar energy?
 - Drying materials,
 - Generation of electricity,
 - III. Heating of food substances.
 - A. I and II only
 - I and III only
 - C. II and III only
 - D. I, II and III

- 29. Turgidity in plants is the result of
 - water entering the cells.
 - water leaving the cells.
 - C. the withdrawal of cytoplasm from the cell wall.
 - D. diffusion of materials into the cells
- 30. Which of the following non-metals conducts electricity?
 - Diamond
 - B. Graphite
 - C. Silicon
 - D. Vanadium
- 31. The main function of ileum in mammals is
 - digestion and assimilation.
 - B. assimilation and absorption.
 - C. digestion and absorption.
 - D. ingestion and digestion.
- 32. Living organisms which help to modify the physical and chemical composition of the soil are
 - earthworms.
 - lichens.
 - III. bacteria.
 - A. I and II only
 - B. I and III only
 - C. II and III only
 - D. I. II and III
- 33. The IUPAC name of the compound whose structural formula is illustrated below is



- A. 2—chloro—3—methylbut—2—ene
- B. 2—methyl—2—chlorobut—2—ene.
- C. 2 -chloro-3 -methyl -2 -butane.
- D. 2 methyl 2 chloro 2 butyne.
- Organic compounds are mostly
 - soluble in water.
 - B. not inflammable
 - C. covalent.
 - D. ionic.
- 35. Which of the following components of the electromagnetic spectrum has the highest frequency?
 - A. Gamma rays
 - B. Infra-red radiations
 - C. Microwave
 - D. Ultraviolet radiations
- 36. In mammals, the organ which deaminates excess amino acid to form urea is the
 - A. kidney
 - B. liver.
 - C. pancreas
 - D. spleen.

37.	Maintenance ration provides farm animals with nutrients required for *				
,	A.	egg production.			
	В.	vital body processes.			
	С.	growth and development.			
	D.	development and maturity.			
38.	Which of the following compounds is a hydrocarbon?				
	A.	C_sH_8			
	В.	$C_6H_{12}O_6$			
	C.	сн,сн,он			
	D.	CH3COCH3			
39.	A characteristic feature of metamorphic and sedimentary rocks is that they are				
	A.	crystalline in structure.			
	В.	non-crystalline in structure.			
	C.	glassy in appearance.			
	D.	metallic in appearance.			
40.	An example of naturally occurring weak acid is				
	A.	ammonia.			
	В.	citric acid.			
	C.	hydrochloric acid.			
	D.	nitric acid.			
41.	The number of electrons present in the outermost shell of an element with atomic number 20 is				
	A.	2			
	В.	6			
	C.	8			
	D.	10			
42.	The neutrons and protons in the nucleus of an atom are collectively called				
	A.	mass number.			
	В.	neutrons.			
	C.	nucleons.			
	D.	atomic number.			
43.	Energy output in a device is equal to work done				
	A.	by the load.			
	В.	on the load.			
	C.	by the effort.			
	D.	on the effort.			
44.	The shape of the lens of the human eye is varied by the action of the				
••	A.	iris.			
	В.	pupil.			
	C.	ciliary muscle.			
	D.	suspensory ligament.			
45.	Which of the following organelles is the site for protein synthesis?				
	A.	Golgi body			
	В.	Mitochondrion			
	C.	Nucleus			
	D.	Biharama			
		Kibosome			

- 46. Fehling's solution is used in the laboratory to test for the presence of fats. A. В. starch. C. reducing sugars. fatty acids. D. Which of the following quantities have both magnitude and direction? 47.
- - l. Displacement
 - Speed П.
 - Momentum III.
 - I and II only A.
 - В. I and III only
 - C. II and III only
 - I. II and III D.
- Group of organs which form part of the central nervous system are the 48.
 - brain, the eyes and the ears. A.
 - brain and the spinal cord. B.
 - brain, the ears and the spinal cord. C.
 - eyes and the spinal cord. D.
- Proteins are usually made up of 49.
 - sulphur, carbon and nitrogen. A.
 - carbon, hydrogen and nitrogen. Β.
 - carbon, hydrogen and oxygen. C.
 - oxygen, carbon and sulphur. D.
- Which of the following characteristics are correct about dairy cattle? They have 50.
 - I. large udder,
 - II. long legs,
 - wedged body. III.
 - A. I and II only
 - I and III only B.
 - C. II and III only
 - D. I, II and III

END OF PAPER