S.5 BIOLOGY OCTOBER ASSESSMENT TEST TIME: 120 MINUTES INSTRUCTIONS: Attempt all questions. SECTION A 1. A plant tissue which is tubular, open ended, with lignified and thickened walls is A. Tracheid B. Xylem vessel C. Parenchyma D. Sieve tube 2. Which of the following cells has the ability of division? A. Osteogonic cells B. Osteoblasts C. Osteoclasts D. Osteocytes 3. Which one of the following is true about the mature metaxylem vessels? A. They are capable of stretching and growing B. They are living cells C. They are formed before elongation is complete. 4. Which one of the following types of epithelia experiences the highest rate of wearing? A. Stratified B. Columnar C. Glandular D. Ciliated 5. Which one of the following types of cells is most abundant in plant structures? A. Meristematic cells C. Sclerenchyma cells B. Parenchyma cells D. Collenchyma cells C. Simple epithelium some of the cells touch the basement membrane B. In a compound epithelium only the lower layer of cells touch the basement membrane C. simple epithelium has one layer of cells D. compound epithelium has more than one layer of cells D. compound epithelium has more than one layer of cells The tissue is formed before completion of stem expansion. C. The tissue is formed before completion of stem expansion. D. Its cells have extensively lignified cell walls. B. Its cells have extensively lignified cell walls. B. Its cells have one lignified in spiral and ring form. 8. The biomass of consumers is always less than that of producers because, A. Producers have to support consumers B. Consumers have a low produce rate C. Energy is lost through body process of consumers D. Consumers have a low produce rate C. Energy is lost through body process of consumers D. Consumers are small in size 9. In estimating the population of Tilapia in a fish pond, 60 fish were captured, marked and released. After 2 days, 50 were captured and out of which 10 were marked. The population of		SHUA 2021 E:	Sl	0750138204 (What IGNATURE:	
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C. 200

Tilapia in the fish pond was

10. A good pesticide is one which

A. Kills a wide range of organisms

C. Kills pest at different trophic levelsD. Easily transforms to non – toxic forms.

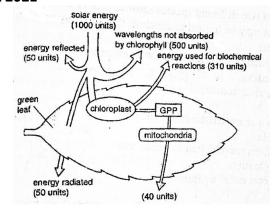
B. Persist for a long time after its application

B. 400

11. Figure 1 shows the gain and loss of energy between a leaf and the atmosphere

A. 300

D. 100



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- A. 50 units
- B. 90 units
- C. 140 units
- D. 450 units
- 12. Three counts of 103, 46 and 20 of a plant species were made using a quadrat of 25cm³. The density of the plant per m² is
 - A. 169
- B. 56.3
- C. 225
- D. 676
- 13. Marine cartilaginous fish solves its osmoregulatory problems by
 - A. Swallowing sea water and having few glomeruli
 - B. Actively extruding salts
 - C. Retaining urea to increase the osmotic potential of the body fluids
 - D. Excreting trimethylamine oxide
- 14. Which one of the following is correct about ectotherms?
 - A. Have cold blood which is warmed by the surroundings
 - B. Regulate body temperature mainly by metabolic reactions
 - C. Much of the heat in their bodies is gained from the surroundings.
 - D. Lack means to regulate body temperature.
- 15. Which one of the following is away of minimizing water loss in dessert animal?
 - A. Drinking a lot of water
 - B. feeding on succulent vegetation
 - C. Possession of few glomeruli
 - D. Having a short loop of Henle.
- 16. The latest heat of vaporization of sweat is 3.15KJ dm⁻³. What is the percentage of energy lost by sweating from a manual worker who loses 2dm³ per day of sweat and has a daily energy intake of 40,000KJ?
 - A. 6.30

B. 7.88

- C. 8.25
- D. 15.75
- 17. Heat loss is most efficiently reduced in body extremities of endotherms by having
 - A. Veins and arteries parallel and close to each other
 - B. Thick fur
 - C. Thick subcutaneous layer
 - D. Few sweat glands
- 18. An organism was found to possess conspicuous flagella, chloroplasts and protein coat. The phylum to which the organism belongs is the.
 - A. Protozoa
- B. Chlorophyta.
- C. Ascomycota
- D. Bryophyta.
- 19. Which one of the following is a characteristic of members of the monera kingdom?
- A. Possession of a true nucleus.
- C. Possession of flagella.

B. Being single celled.

D. Being heterotrophic.

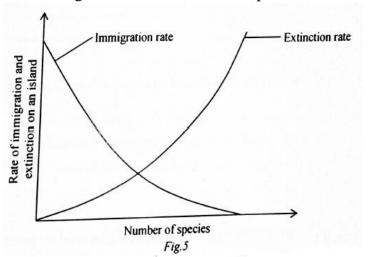
	IUA 2021			0750138204 (Wh	natsApp)
20. Ir	n which of the follow	wing organisms is	s the gametophyte a dom	inant generation?	
A	. Ferns	B. Mosses	C. Conifers	D. Flowering plants	
21. Ir	n sponges, the differ	ent types of cells	are independent of each	other in function because	?
A	The different cells	s show division o	f labour.		
В	6. Collar cells maint	ain the flow of w	ater.		
C	2. Sponges are made	e up of collar flag	ellates		
D	The cells are not o	coordinated.			
			T COTTON D		
			ECTION B		
<i>1</i> . T	he diagram below r	epresents an anim	nal tissue.		
	A B			E G	
	(i). State the speci	ific type of this tis	ssue and give two places	where it works. (02 ½	marks)
			ssue and give two places		marks) marks)
(a				part. (06	
	(ii). Label the par		ve the functions of each p	part. (06	
PART A	(ii). Label the par		ve the functions of each p	part. (06	
PART	(ii). Label the par		ve the functions of each p	part. (06	
PART A B	(ii). Label the par		ve the functions of each p	part. (06	
PART A	(ii). Label the par		ve the functions of each p	part. (06	
PART A B	(ii). Label the par		ve the functions of each p	part. (06	
PART A B C	(ii). Label the par		ve the functions of each p	part. (06	
PART A B C	(ii). Label the par		ve the functions of each p	part. (06	
PART A B C D E	(ii). Label the par		ve the functions of each p	part. (06	
PART A B C D	(ii). Label the par		ve the functions of each p	part. (06	
PART A B C D E	(ii). Label the par		ve the functions of each p	part. (06	

functi		o perform their	
(i)	Squamous epithelium	(02 mark	
(ii)	Cuboidal Epithelium	(02 mark	
(iii)	Columnar epithelium	(02 mark	
2. (a)What	s meant by alternation of generations	(03 marks	
(b) Ferns	and mosses show alternation of generations. State the dominant state in	each case	
	Ferns		
	the importance of alternation of generations in the life cycle of an organ		
• • • • • • • • • • • • • • • • • • • •			
	ne the limitations that mosses face in growing in terrestrial habitats.	(04mark	

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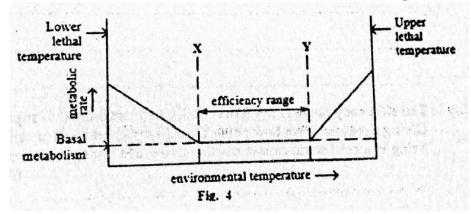
0750138204 (WhatsApp)

3. Figure 5 below shows the immigration and extinction of species on an island.



	(a). Explain the relationship between the measur	able variables on	a virgin isiand.	(03 marks)
((b). From the graph, suggest four factors that cou	ıld be determining	g the number of spe	ecies on the
i	island?			(02 marks)
	(c). State three factors that may affect the immig			
• • • • • • • •				

4. Figure 4 shows the variation of metabolic rate with environmental temperature in a mammal.



,	(i) X
	(ii) Y
(02 marks)	(b) What does the efficiency range mean?
	(c) Explain the variation of metabolic rate with environmental ter range.
nimal to animal. Giving a reason, state	(d) The efficiency range is not fixed but differs from animal to an
g in a cold environment and that living in a	how point X would differ between an animal living in a cold of
(02 marks)	hot environment.

SECTION C

1. (a) What is meant by the term Ultra-filtration?

(04 marks)

(b) Describe how intercellular fluid is formed

(16 marks)

END!!!

"Don't ask what the world needs. Ask what makes you come alive, and go do it."