Name	sStr	eam
	MBOGO MIXED SECONDARY SCH	OOL
	S.4 - BIOLOGY TOPICAL TEST - 2	2020
	CLASSIFICATION	
	TIME: 2HD	

INSTRUCTIONS

- Attempt all questions in this paper
- Answers to be written on the space provided for section B.

SECTION A. Answer sheet

1	11	21	
2	12	22	
3	13	23	
4	14	24	
5	15	25	
6	16	26	
7	17	27	
8	18	28	
9	19	29	
10	20	30	

1	. Select the	organism	that belong	s to a different	class from	the others

A. Flea

B. mite

C. scorpion

D. tick

2. Which of the following is not a kingdom in the classification of living things

A. Monera

B. fungi

C. protista

D.plantae

- 3. Which of the following can not be used to put plant specimens into different groups?
- A. shape of leaves

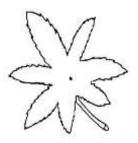
В.	size of leaves			
C.	type of venation			
D.	type of root syst	em		
4.	A scientific name	consists of two	words. To which o	groups do they belong?
A.	genus and class			
В.	genus and order			
C.	genus and specie	es		
D.	genus and family	′		
5.	The following org	janisms are mad	de up of cells exce	pt?
A.	amoeba B. tape	worm C. viru	ıs D. yeast	
		•	_	croscope. He used a
x10 wa		x40 objective.	The magnification (of the image he saw
	x4 B. x50	C. x400	D. x410	
			21712	
7.	Which of the follo	owing features i	s not a characteris	tic of
	nocotyledonous p	_		
	parallel venation	B. leaf sh	neath C. soft	stem D. tap
roc				
8. cal		anisms of differe	ent species living in	n a particular locality is
A.	a community E	3. a population	C. an ecosystem	D. a habitat
9.	A group of cells t	:hat are co-coor	dinated to perform	a particular function
is c	called			
	an organ B.	a system	C.a tissue	D. an
org	janism			
10	The following ch	aractorictics are	found in arthropo	de Which and is only
	ind in some?	או מכנפו ואנוכא מופ	Touriu iii artiii opot	ds. Which one is only

A. exoskeleton B. segmented bodies C. compound eyes D.jointed limbs
11. Which one of the following structures is common to both Euglena and an orange tree?
A. Flagella B. Seeds C. Contractile vacuole D. Chloroplast
12. Which of the following reproductive methods is carried out by yeast under favourable conditions?
A. Binary fission B. Budding C. Sporulution D. Vegetative reproduction
13. Below is an example of a food chain.
Green grass — → Grasshopper → Egret — Hawk
Which of the following would occur if a very large number of lizards were introduced in the ecosystem with this food chain?
A. All the grass would be destroyed
B. The grasshopper population would rise up
C. The hawk population would decrease
D. The egret population would decrease.
14. Which of the following bacteria is responsible for the break down of the proteins of dead organisms and their excretory matter into ammonium compounds.
A. Nitrifying bacteria B. denitrifying bacteria
C. Nitrobacter D. Putrefying bacteria
15. To which order of the class insecta does the body of louse belong?
A. Anaphora B. Hemiptera C. Siphonoptera D. Diptera
16. Which of the following vegetative plants would appear next in a rocky habitat after the lichens during the process of succession?
A. A. Ferns B. Algae C. Moss D. Spirogyra

substances:			
A. stem tubers	B. roots tubers	C. fruits	D.seeds
17. Which one of	the following is a mo	dified tap root?	
A. carrot tuber tuber	B. onion bulb	C. cassava tu	iber D. sweet potato
18. Which one of flowering plants?	the following brings a	about secondary	thickening in
A. phloem cells	B. cambium cells	C. xylem cells	D. cortex cells
19. Which one of	the following tissues	has a protective	function in plants?
A. Xylem	B. phloem C. car	mbium D. ep	idermis
20. Which of the pollination?	following flower parts	is most importa	nt in promoting insect
A. Calyx	B. Corolla C.	Stamens D	. Pistil
21. Which one of	the following is chara	acteristic of mond	cotyledons
A. Leaf sheath layer	B. Net venation	C. Promine	ent tap root D.Cork
22. A runner is a			
A. stem which be	ends over and roots i	n the soil	
B. horizontal ste the nodes	m above the ground	which gives roots	s and aerial shoots at
C. horizontal ste shoots at the nod	m beneath the groun les	d which gives ris	e to roots and cerial
D. short vertical	stem which buds ber	neath the soil	
23. Which one of	the following is not a	primary function	of roots?
A. conduct water	r and mineral salts	C. anchor t	the plant into the soil
B. store food and salts	d water	D. absorb	water and mineral

17. Which one of the following plant food storage organ contains most food

24. The figure below shows a leaf type



- A. Bipinnate B. compound trifoliate C. pinnate D. palmate lobed
- 25. Which one of the following is a modified root?
- A. irish potato tuber B. cassava tuber C. rhizome D.corn
- 26. Which part of Irish potato plant is used in its vegetative reproduction?
- A. Stem B. root C. leaf D.flower
- 27. Non-endospermic seeds store their food in
- A. Endosperm B. cotyledon C. testa D.embryo
- 28. The following are parts of gynoecium except
- A. Ovary B. filament C. style D.stigma
- 29. The following are types of underground stems except
- A. Rhizome B.stem tuber C. pitcher D. corms
- 30. Which of the following sets do not have roots?
- A. Mosses, ferns, fungi, conifers and liverwort.
- B. Liverworts, mushrooms, algae, bacteria and mosses.
- C. Ferns, horsetails liverworts algae and conifers.
- D. Mucor, corn, smut, spirogyra, maize and beans

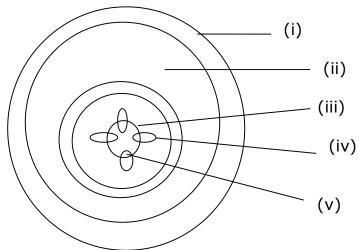
Section B

31. (a) List any structural differences between a stem and a root

Stem	Root
i)	i)
[ii)	ii)
ļiii)	iii)

(b) Give 5 functions of s		

32. Below is a cross section of the part of a plant.



a) Name the parts labelled (i) - (v)

b) Giving a reason, state the part of the plant from which the section was taken from.
c) i) Give the function of part labelled IV and V.
IV
ii) What role does part labelled III play in the plant?
33. (a) List any structural differences between a stem and a root
(b) What are the main functions of a stem?
(c) What adaptations of stems enable them to serve additional
functions?4mks.

cockroach?4mks	
(b) Giving examples, explain how insects can be useful to people.5mks	
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(b) Giving examples, explain how insects can be useful to people.5mks	
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(c) What adaptation of insects enables them to transmit diseases?3mks	(b) Giving examples, explain how insects can be useful to people.5mks
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