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# SEETA HIGH SCHOOLS END OF TERM II JOINT EXAMINATIONS 2015 S.1 BIOLOGY TIME: 1HOUR 10MINUTES

# **Instructions**

Attempt all questions

# **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.

### FOR OFFICIAL USE

	Score
Section A	
Section B	
Total	

### **SECTION A**

	nsists of; B) cytoplasm and nucleoplasm D) cytoplasm, nucleoplasm and cell membrane
<ul><li>2. A plant tissue consists of rour often contains starch between</li><li>A) collenchyma tissue</li><li>C) parenchyma tissue</li></ul>	nded cells packed tightly together and which in the spaces is the; B) epidermal tissue D) sclerencyma tissue
<ul><li>3. Which of the following forms</li><li>A) Flowers.</li><li>C) Lateral roots.</li></ul>	part of the shoot system.  B) Roothairs. C) Root tip.
<ul><li>4. Monocotyledonous and dicc</li><li>A) Algae</li><li>C) Gymnospermae</li></ul>	otyledonous plants belong to class B) Angiospermae D) Spermatopyta
<ul><li>5. Which one of the following ti</li><li>A) cambium</li><li>C) phoem</li></ul>	issues has a protective function in plants? B) epidermis D) xylem
6. Which of the following is a m A) carrot C) cassava	nodified tap root B) onion bulb D) sweet potato tuber
<ul><li>7. Which of the following is a tist</li><li>A) Muscle.</li><li>C Skeleton.</li><li>8. Which of the following organ</li><li>A) hydra</li><li>C) mite</li></ul>	B) Heart. C) Leucocytes.
<ul><li>9. The function of the condense</li><li>A) reflect light beam</li><li>C) concentrate light beam.</li></ul>	er on a Compound light microscope is to: B) absorb light beam. D) Regulate light beam.
<ul><li>10. A rhizome is regarded as a</li><li>A) adventitious roots</li><li>C) scale leaves</li></ul>	stem by possession of; B) xylem and phloem D) root leaves

B) supporting the plant D) transporting food

11. What is the main function of the phloem in green plants

A) transporting water

C) transporting mineral salts

<ul><li>12. Root hairs arise from the</li><li>A) pericycle</li><li>C) endodermis</li></ul>	B) piliferous layer D) cambium
<ul><li>13. The part of the onion that stores f</li><li>A) modified stem</li><li>C) fleshy leaf</li></ul>	ood is the B) modified branch D) root tuber modification
<ul><li>14. Which of the following gives rise t</li><li>A) Cambium.</li><li>C) Piliferous layer.</li></ul>	o lateral roots. B) Pericycle. D) Cortex.
<ul><li>15. Which of the following is a character</li><li>A) exoskeleton</li><li>C) three body divisions</li></ul>	cteristic of insects only B) jointed legs D) two pairs of wings
<ul><li>16. Simple aquatic plants containing into roots, stems and leaves are</li><li>A) algoe</li><li>C) liverworts</li></ul>	chlorophyll, with bodies not differentiated  B) fungi D) mosses
17. Which of the following is NOT and A) millipede C) beetle	arthropod? B) earth worm D) cricket
<ul><li>18. The strength of xylem vessels is du</li><li>A) lignin</li><li>C) cellulose</li></ul>	ue to the presence of B) chitin D) starch
<ul><li>19. Which of the following is not a pri</li><li>A) photosynthesis</li><li>C) food storage</li></ul>	mary function of leaves to plants B) transpiration D) gaseous exchange
<ul><li>20. Guard cells differ from normal ep</li><li>A) they have no nuclei</li><li>B) they contain chloroplates</li><li>C) their surface is not covered by cu</li><li>D) they do not carry photosyntheisis</li></ul>	
21. Which of the following is not a pro A) plasmodesmata C) cell membrane	operty of an animal cell B) glycogen granules D) mitochondria
22. Starch grains is to plant cells as A) starch granules	is to animal cells. B) glycogen granules

D) chloroplasts

C) oil droplets

23. The membrane that surrounds the A) Plasma membrane. B) Tonoplast.	e sap vacuole is; B) Nuclear envelope. D) Protoplasm.
24. To which one of the following gro A) angiosperms C) bryophytes	oups do mosses belong B) cycads D) ferns
likely to be. A) an Amphibian.	skin and three chambered heart is most  B) a mammal.
B) a Fish. 26. A leaf is identified as compound A) presence or absence of leaf starc C) type of venation	•
27. Mammals are distinguished from e except A) four digits C) fur	amphibians by possession of the following  B) mammary glands  D) external ears
28. Which of the following plant parts A) Xylem. B) Pith.	s offers mechanical strength and support. B) Phloem. D) Chlorenchyma.
29. In a cell, the role of the mitochon A) formation of energy C) manufacture of food	drion is; B) storage of mineral salts D) protection of internal cell parts
30. A structural similarity between, fisl A) all have fins C) all have scales	h, bats and reptiles is that; B) all have feathers D) all have four limbs
S	ECTION B
Answers should be written in the space	ces provided
31.a) Give three differences to suppo I) living things.	ort the view that viruses are.
II) Non living things.	

b) Write down any three common. I) Viral diseases of man.
II) Protozoa diseases of man.
III) Fungal diseases of man.
32. a) List down two primary functions of roots, stems and leaves to the plant  Roots  i)
ii)
Stem
i)
ii)
Leaves
i)
ii)
b) Some roots are modified to perform secondary functions in certain plants. Write down any two such modifications in each case give one example plus a brief description. Stating how the said stem is modified to perform that particular

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function.

Root modification	Example	Description of modification
i)		

ii)		
a) I) To which phylum does	ointed legs, 2 distinct body p x X belong?	
II) To which Class is X likely		
III) Give a particular example of such an organism as X?		
b)Name three other characteristic features used to identify X.		
c)Give three Classes apart	from that of X, belonging to	o the same Phylum.
	eross section of a stem of a d	

b). Outline the function of any four labelled parts		
c) How is the internal structure of a dicot	stem different from that of monocot	
stem.		
Dicot stem.	Monocot stem.	
35 a) Evolgin the importance (significant	so of the following characteristics of a	
35. a) Explain the importance/significant leaf.	Le of the following characteristics of a	
I) upper epidermis with out chloroplasts.		
II) More stomata on the lower leaf surface than upper surface.		
II) Large airspaces in the spongy mesoph	nyll layer	
b) Outline any two differences between a leaf of a dicot plant and a leaf of a		
monocot plant.	a leaf of a dieof plant and a leaf of a	
Monocot leaf	Dicot leaf	

*** END ***	
c) Give any four leaf modifications.	