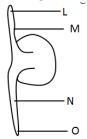
GUIDE TO S.3 BIOLOGY ONLINE TEST

INSTRUCTION: Attempt all questions

1. Figure 1 is a diagram of a seedling.



The region that elongates most rapidly during epigeal germination is indicated

by letter

A. L

B. M

C. N

D. O

- 2. Primary growth in plants causes increase in
 - A. Number of branches

C. Height of the plant.

B. Thickness of the xylem

D. Thickness of phloem

3. What meristem causes the type of growth shown?

	Meristem	Type of growth	
A	Lateral	Increase in length of the plant	
В	Apical	Increase in girth of the plant	
С	Axillary	Increase in girth of the plant	
D	Apical	Increase in length of the plant	

D

- **4.** In which of the following parts of the maize grain are most carbohydrates stored?
 - A. Cotyledon
- B. Radicle
- C. Endosperm
- D. Plumule

- **5.** The rapid elongation of the epicotyl during germination causes.
 - A. Delay in emergence of photosynthesis leaves
 - B. Cotyledons to grow above the ground
 - C. Early emergence of photosynthetic leaves
 - D. Cotyledons to remain below the ground
- **6.** Which of the following always increase during the development of an organism?
 - A. Cell number
- B. Complexity
- C. Dry mass
- D. Volume of cytoplasm

В

- 7. The process by which cells become modified and then perform specific functions in an organism is referred to as;
 - A. Cell division

C. Cell differentiation

B. Tissue formation

- D. Cell duplication
- 8. Which one of the following seed parts plays both roles of protection and nutrition during germination?
 - A. Endosperm
- B. Testa
- C. Coleorhiza
- D. Cotyledons
- **9.** What is the main function of the lateral meristem in a root?
 - A. Formation of lateral roots.

- C. Formation of new cells.
- B. Secondary thickening of the root.
- D. Protection of the root tip.

e Biologist!!		B.K Joshua 2021				
10. In order to germinate, m	ost seeds need					
A. Water, carbon die	oxide, sunlight and suita	able temperature.		C		
B. Water, oxygen, n	itrates, and suitable tem	perature.				
C. Water, oxygen an	nd suitable temperature.					
D. Water, oxygen an	d light.					
11. The part of the plant resp	ponsible for primary gr	owth is the				
A. Apical meristem	B. Vascular cambin	ım C. cortex	D vascular bundle.	A		
12. Imbibition of water duri	ng seed germination tal	tes place through				
A. Testa B.	Hilum C. Mi	cropyle	D. Radical	C		
13. What is the effect of rap	id elongation of the hyp	ocotyl during seed	germination?			
A. Cotyledon remain	ns underground	C. Cotyledon i	is carried above ground			
· · · · · · · · · · · · · · · · · · ·	raight out of the ground		_			
14.		31 3	C			
1	The part marked X in figure 1 is the					
		A. Hypocotyl	1118610 1 15 010			
AL.	X	B. Epicotyl		В		
	7	C. Coleoptile				
Jun 1	(D. plumule				
*						
 D. Dry storage at hig 17. Secondary growth in pla A. length 18. During seed germination A. Stored food is use 	the embryo is B. hydrolysis lue to embryo immaturi ed coat permeability. Ifter ripening period. Is seeds in a cold room or gh temperature. Ints causes an increase in B. thickness B. thickness Chan, the dry weight initially ed up for growth and re erials diffuse out of the corption is low ion is low	C. oxidation ty overcome? refrigerator. n . height D. y decreases because spiration seedlings	D. condensation number of branches.	B B A		
A. Hibernation	B. Organ formation	C. Feeding	D. Resting			
20. Which one of the follow			-			
germination?						
A. Endosperm	B. Testa	C. Coleorhiza	D. Cotyledons	D		
]	END!!!				

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