

Botany & Microbiology	Final Exam- 1st semester 1437-1438-Course No. 102 Bot.
Date & Time	Time (3 hours)
Student No.	
Student Name	

Q. I: Circle the letter T if the statement is true or F if the statement is false. (10 marks).

1. The vessels are part of the phloem tissue.	in the same of the	jana jana			
2. Monocots have vascular bundles scattered throughout the plant stem.					
Kingdom Fungi include autotrophic organisms.					
The function of the tuber is food storage.	T	F			
5. Ribosome contains grana.	T	F			
6. "Rain forest" is poor in species number.	T	F			
7. The photosynthetic cells in leaves are called chlorenchyma.	T	F			
8. The membrane of vacuole is called "Tonoplast".	T	F			
Archaebacteria use light energy for their metabolism.	T	F			
10. Recessive gene means gene expressed in heterozygous type.	T	Jan 1			
11. The function of Plasmodesmata is connection between cells.	T	F			
12. Chitin is the main component of plant cell wall.	T	- Bress			
13. Lichens are consisting of viruses and bacteria.	T	F			
14. Tendrils are modified organs for climbing.	- 1	F			
15. Genome includes genes and non-coding DNA organized in chromosomes.					
16. Ecosystem is the interactions between abiotic factors only.	T	F			
17. Crossing over occurs during meiosis two.	Ť	100 mm			
18. The haploid (n) phase is called the gametophyte or gamete producing plant	T	Carton June			
19. Spike is a simple raceme inflorescence with sessile flowers	T	a a			
20. Nucleosome is the basic unit of DNA		F			
		L			

Q II. A- Read the first column and select a letter of the suitable term in the second column and put this letter in the answer table given below. (5 marks).

Column I	T	Column II
The calyx consists of	A	Biomes
Vascular plants with naked seeds are called	В	Alleles
Epidermis tissues of leaves have	С	Ribosome
ATP is synthesized in the	D	Stomata
Oxygen is produced during	E	Gymnosperms
Alternate forms of genes are called	F	Photosynthesis
Regional ecosystem types with similar communities are called	G	Sepals
When alleles are similar (e.g. RR), it is called	Н	Homozygous
Regions of stem between nodes are called	complete	Internodes
Protein synthesized in	J	Mitochondria
	The calyx consists of Vascular plants with naked seeds are called Epidermis tissues of leaves have ATP is synthesized in the Oxygen is produced during Alternate forms of genes are called Regional ecosystem types with similar communities are called When alleles are similar (e.g. RR), it is called Regions of stem between nodes are called	The calyx consists of Vascular plants with naked seeds are called Epidermis tissues of leaves have C ATP is synthesized in the Oxygen is produced during E Alternate forms of genes are called Regional ecosystem types with similar communities are called When alleles are similar (e.g. RR), it is called H Regions of stem between nodes are called I Dratein aunthorized in

The answer table:

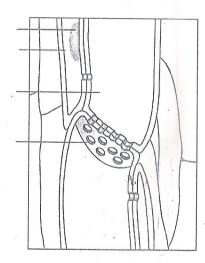
1 ^S	Column	1	2	3	4	5	6	7	8	9	10
2 nd	d Column	,									
					ii P						

QII. B: Identify the longitudinal section of this tissue and put labels against lines marked (5 marks).

This istissue

Choose the suitable terms from this list:

- 1- Xylem
- 2- Sieve plate
- 3- Plastid
- 4- Phloem
- 5- Tracheid
- 6- Vessel element
- 7- Sieve tube member
- 8- Nucleus
- 9- Companion cell
- 10-Chlorenchyma



Question III Select the correct	labels on these d	(10 Marks rawings:	s)
1. Stem modified into)		
	ie.		
	, * - *		
a. tendril	b. tuber	c. cladophyll	
			grana
2. This organelle in p	lant cell is a	00 00 00 00 00 00 00 00 00 00	
		DI	IA Stromo
a. mitochondria	b. plastid c.	nucleus	membrane
3. The phase is	and the second s	sis	
	y * .*		
a. anaphase	b. metaphase	c. telophase	
4. The roots shown a		roots	e (- 1, 12 m)
	£ , 5		
			The state of the s
a. adventitious	b. tuber	c. tap.	
5. This leaf has	venation.		
a. parallel	b. Pinnate	c. palmate	da d

IV. Circle the	right answer to	the following	from the options gi	ven (10 marks).
1. What fur	iction do the me	ristem tissue o	of shoot tip serve?	
a. sexual repr	oduction b. prod	uction of tissues	c. nutrient uptake	d. not a, b, c.
2. Which of	f these are trans	ported by Xyle	m?	
a. sugar	b. oxyg	en O ₂	c. water and nutrients	d. carbon dioxide CO
3. What is	the term given t	o the undergro	und stem?	
a. root	b. rhizo	me	c. leaf	d. not a, b, c
4. Where a	re seeds produc	ed in the flow	er?	
a. petals	b. sepa	ils	c. ovary	d. not a, b, c.
5. Which o	ne of these belo	ngs to the king	gdom Prokaryotes?	
a. Bacteria	b. Mos	s	c. Euglena	d. Ferns
6. Parallel	leaf venation is	a common cha	racter of	
a. dicot. plant	ts b. mon	ocot. plants	c. nonvascular plants	d. not a, b, c.
7. The fund	ction of pericycl	e tissue is to f	orm:	
a. lateral root	b. later	al branch	c. lateral bud	d. flower
8. The pho	tosynthetic pro	cess removes	from the environ	nment
a. Nitrogen	b. suga	ar	c. oxygen	d. carbon dioxide
			t over white flower (r). What is the
genotyp a. RR	e of the white fl b. Rr	ower?	c. rr	d. not a, b, c.
10. Commu	nity consists of	living in a	particular area.	
a. individual	b. pop	ulation	c. populations	d. not a, b, c.

والله ولي التوفيق