RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE, RAHARA, KOLKATA Undergraduate Admission Test 2023: Botany Honours

Full]	Marks : 75					J	Time : 1 hour		
1.	Which of the following is known as amphibians of the plant kingdom								
	a) Bryophyte	b) Al	gae		c) Pteridophy	yta	d) Gymnosperms		
2.	Mycorrhiza is an example of symbiotic relationship between								
	a) Algae and func) Algae and hig	<i>,</i>	b) Fungi and higher plantd) Bacteria and higher plant			10			
3.	The DNA sequence 3'-ATCCGATGAC-5' will produce which of the following mRNA a) 5'-TAGGCTACTG-3' b) 3'- UAGGCUACUG-5'								
	c) 3'- TAGGCT			'-UAGGCUACUG-3'					
4.	Crossing over takes place during								
	a) Zygotene	b) Pa	chytene		c) Leptotene		d) Diplotene		
5.	Which type of chlorophyll is present in all oxygenating photosynthetic organism? a) Chlorophyll a b) Chlorophyll b c) Chlorophyll c								
	d) Chlorophyll d								
6.	Which is not me	onocotyledon	ous plant	t?					
	a) Banana	-	conut		c) Mango		d) Rice		
7.	When transport across membranes occur against concentration gradient, it is calleda) Active transportb) Passive transportc) Facilitated diffusion								
	a) Active transp	l diffusio	on						
	d) None of the above								
8.	Mendel's principle of segregation means that the germ cells always receive								
0.	a) One pair of alleles b) One quarter of the								
	c) One of the paired alleles d) Any pair of alle						e		
C									
9.	The number of autosomes in man is								
	a) 22 pairs	b) 11	pairs		c) 43 pairs		d) 23 pairs		
10.	Genes are made	up of:							
	-						drocarbons		
11.	Prokaryotic gen	etic system ha	as						
	a) DNA but no histones b) Both DNA and histones								
	c) Neither DNA nor histones d) Either DNA or histones					stones			

				BOTA/RKMVCC/UAT2023					
12.	SI unit of lengt								
	a) miles b) meters		c) yards	d) feet					
13.	13. The frequency of a character in a population is found to be increasing w								
	a) It is dominat	ht b) It is recess	ive c) It is adapt	able d) It is inheritable					
14.	Closed vascular bundles lack								
	a) Cambium	b) Pith	c) Ground tissue	d) Conjunctive tissue					
				\rightarrow					
15.	Extranuclear DNA in eukaryotic cell is found in a) Nucleus b) Mitochondria c) Ribosomes d) Endoplasmic Reticulum								
	a) Nucleus	b) Mitochondria	d) Endoplasmic Reticulum						
16.	Capitulum infle	orescence is found in							
	a) Asteraceae	b) Solanaceae	e c) Malvacea	e d) Rosaceae					
17.	17. The end product of glycolysis in aerobic respiration is								
	a) Pyruvic acid	b) Acetic acid	c) Oxaloacetic acid	d) Palmitic acid					
18.	Malic acid is stored inside the vacuole during the								
	a) C3 cycle	b) C2 cycle	c) C4 pathwa	ay d) CAM pathway					
19.	"Central dogma" refers to a) DNA rRNA Protein c) RNA Protein DNAb) DNA mRNA Protein d) DNA RNA Alcohol								
20.									
	a) CO_2	b) H_2O c) Cu	d) O ₂						
21.									
	a) Glucose	b) Fructose c) Ma	ltose d) Galactose						
22.		f prokaryotic ribosome		1) 707 207					
	a) 60S + 40S	b) 50S + 30S	c) $60S + 30S$	d) 70S + 30S					
22									
23.	C 1	Angiosperms differ from gymnosperms in havinga) Fruitsb) Cotyledonsc) Tracheidsd) Leaves							
	a) Fruits	b) Cotyledons	d) Leaves						
34	Cuanahastari	ic							
24.	Cyanobacteria		h) Symplicitic mysomplizes						
	-	ing oxygenic photosyn	b) Symbiotic mycorrhizae						
	c) Gram positiv	ve bacterna	d) Saprophytic fungus						
25.	What is a chroi	matin?							
43.	a) RNA + Prote		DNA + Protein						
	c) ds DNA + H		ne of the above						
	C us DINA + Π								