PART IV – BIOLOGY

1.	The odd one in the given set of inflorescence is					
	A) Corymb	B) Cyathium	C) Spadix	D) Umbel		
2.	Which of the following feature cannot differentiate between chordates and non-chordates?					
	A) NotochordC) Pharyngeal gill slits		B) Dorsal nerve cordD) Body cavity or coelom			
3.	Arrange the following in the increasing order of taxonomical hierarchy					
	A) sapiens, Homo, Anthropoidea, Theria, Homonidae, Mammalia B) sapiens, Homo, Homonidae, Theria, Anthropoidea, Mammalia C) sapiens, Homo, Homonidae, Anthropoidea, Theria, Mammalia D) sapiens, Homo, Anthropoidea, Homonidae, Theria, Mammalia					
4.	Source of energy for Urey-Miller experiment was					
	A) glycine	B) UV	C) Electric spark	D) ATP		
5.	Which of the following classification system is based on evolutionary relationships?					
	A) Whittaker's system C) Chemotaxonomy	1	B) Phylogenetic classi D) Cytotaxonomy	fication		
6.	What increases the frequency of occurrence of a certain variation that arises i population?					
	A) Fitness to the envir C) Abundance of food		B) Increase in the popu D) Decrease in the pop	_		
7.	Sites of glycolysis, TCA cycle and electron transport chain are respectively					
	 A) Cytoplasm, mitochondrial matrix & inner membrane of mitochondria B) Outer membrane of mitochondria, mitochondrial matrix & inner membrane of mitochondria C) Cytoplasm, outer membrane of mitochondria & inner membrane of mitochondria 					
	D) Cytoplasm, inner membrane of mitochondria & mitochondrial matrix					
8.	Regulation of gene expression is controlled by the binding of enhancer/repressor to					
	A) Promoter	B) Pribnow box	C) TATA box	D) Operator		
9.	Down's syndrome is due to					
	, ·		B) Deletion of X chromosome D) Trisomy of Y chromosome			

10.	The dental arrangement of human is					
	A) $\frac{2123}{2123}$	B) $\frac{2132}{2132}$	C) $\frac{1234}{4231}$	D) $\frac{3123}{3123}$		
11.	Type of chloroplast seen in Oedogonium					
	A) Reticulate	B) Spiral	C) Stellate	D) Cup shaped		
12.	In plants the phenome	through				
	A) Lenticels	B) Rootcap	C) Stomata	D) Hydathodes		
13.	The present day classification of viruses is based on					
	A) Genetic material C) Presence or absence	e of capsule	B) Protein Coat D) Shape			
14.	Theory of inheritance of acquired characters popularly known as					
	A) Neo-Darwinism	B) Lamarkism	C) Darwinism	D) Neo-lamarkism		
15.	Source of energy for Urey-Miller experiment was					
	A) Electric spark	B) UV	C) glycine	D) ATP		
16.	Which of the following is the site of protein synthesis?					
	A) Lysosome C) Endoplasmic reticu	ılum	B) Ribosome D) Plastids			
17.	7. Cross-overs are characteristic of which stage of prophase I in meiosis					
	A) Zygotene	B) Pachytene	C) Leptotene	D) Diplotene		
18.	Which cell gives rise to the zygote in embryo sac?					
	A) Polar nuclei	B) Synergids	C) Egg cell	D) Antipodals		
19.	Which one of the following is not a mode of asexual reproduction?					
	A) Binary fissionC) Formation of gemmule		B) Fusion of gametesD) Vegetative propagation			
20.	Basic principle in tissue culture is					
	A) Totipotency	B) Water potential	C) Growth potential	D) Plant potential		