## BRIKS ACADEMY PADMANABHANAGAR CONT: 9900084667 I PUC BIOLOGY MODEL PAPER I

Time: 3hr Subject: BIOLOGY Max. Marks: 70

## PART - A

I. S	select the cor	rect alternative	from th	e choices gi	iven belo	ow	1x1 = 15
		s the concentrat b) Oxytocin	tion of ur c) AC		d) No	ne of the above	
2. Five	e kingdom clas	ssification was gi	iven by				
a)L:	innaus	b)W.H whittekar	c) co	peland	d) No	ne of these	
3. Boy	wman capsule	is located in					
a)	cortex	b) Henle's loop	c)Bla	dder	d) lun	ıgs	
4. Wh	o coined the te	erm Mitochondri	a				
a)	Altman	b) Benda	c) de	Duve	d) C.C	Golgi	
5. Wh	ich of the follo	wing phylum ha	ving flam	e cells?			
a)	paltyhelminth	is b) Porifera	c)Mo	llusca	d) cte	nophora	
6. Yea	st cell divides	once in approxim	nately ev	ery			
a) '	a) 90 minutes b) 24 Hours		c) 24	c) 24 minutes		d) 24 days	
,	rk bands are	,	,		,		
a) .	A-band	b) B-band	c) I-b	and	d) Z-b	and	
•		wing has no coe			,		
a)P	latyhelminthes	s b) Annelids	c) Art	hropods	d) Mol	lluscs	
9. Wh	ich one of the	following charac	teristic is	s shared by t	oirds and	l mammals	
						leton d) cold blo	ooded nature
10.In v	which of the fo	llowing segment	ation in t	he body is fi	rst obser	rved	
a)	Aschelminthes	s b)Arthrop	oda	c)Annelida		d) PLatyhelminth	nes
11.En	ds of long bone	es are covered wi	ith				
a) t	olood cells	b) muscle	s	c) cartilage	es	d) ligaments	
12.Fre	sh water spon	ge					
a) S	Spongilla	b) Euglen	a	c) Aurelia		d) Both a and b	
13.FSI	H is secreted b	y					
a) a	nterior lobe of	pitutary b) g	gonads	c) Thyroxir	ne	d) Hypothalamus	3
14.Cni	idoblasts are p	resent in which	phylum				
a) F	Porifera	b) Protozo	a	c)Ctenopho	ora	d) Coelenterata	
15.Cor	mb plates are j	present in					
a)	Ctenophora	b) Porifera	a.	c) Protozoa	ι	d) Mollusca	
		ect and fill in t					$1 \times 5 = 5$
		Brown, Theodo		ier , Chlorop	hyll a&b	,Venation , )	
		overed by					
	_	veins and veinle		nina of leaf_		_	
		in Amphibians					
		sent in Rhodoph	-				
∠∪. II	ie mucieus als	covered by	-				
			]	PART – B			

## III. Answer any FIVE of the following

2 X 5 = 10

- 21. Differenciate between Chordates and Non chordates?
- 22. Write the location ciliated epithelium and its function?
- 23. Classify kingdom mycota?

PART – C	
IV. Answer any FIVE of the following.  29. Write the sailent features of Bryophyta?  30. Draw a neat labelled diagram of TMV?  31. Difference between aerobic nd anerobic respiration?  32. Differenciate between Chlorophyceae and Rhodophyceae?  33. Explain the functions of plasma membrane?  34. Mention the four important functions of proteins?  35. Explain general characters of Aves and give 2 examples?  36. Write the differences between PSI and PSII?	3X 5 = 15
PART -D	
V. Answer any FOUR of the following.  37. Mention the taxonomic hierarchy of Wheat?  38. Draw a neat labelled diagram of digestive system of frog?  39. Explain how process of mitosis occurs with steps and diagram?  40. List out the general characters of Echinodermata?  41. Mention any two disorders of human excretion?  42. Sketch and label axon terminal and synapse. Describe nerve impulse?  43. Give a brief account of counter current mechanism in urine formation?  44. Explain and schematically represent Glycolysis?	5 X 3 = 15
VI. Answer any ONE of the following.  45. Write the general characters of Solanaceae?  46. List out the general characteristics of phylum Mammals?  47. What is placentation? Explain its types with the help of Diagram?  ###################################	5 x 2 = 10

24. Write any two economic importance of algae?

26. "Lichens are good pollution indicators" Justify? 27.a) Define residual volume b) Total lung capacity 28. What is phyllotaxy? Mention the types of phyllotaxy?

25. Give an example for ammonotelic and Ureotelic animals?