INTER (PART-I) LAHORE BOARD 2017

Time	•	d. 20 Minutes		Crown	,		121	bjective Type)
		d: 20 Minutes	c	Group-				um Marks: 17
NOTE						ion as A, B, C an		
						estion number. U		
			1.57			ill result in zero		
						type questions pa are not filled. Do	The state of the s	
		eet of OBJECTI			ODDEL	are not fined. Do	HOL SOLV	e questions on
1.		mimal with exc			in is:			
••	(A)	Star fish	(B)	Octopus	(C)	Snail	(D)	Sepia
2.		icles is a charac			(~)	S.I	(2)	очр.
	(A)	Hydra	(B)	Snail	(C)	Amoeba	(D)	Euglena
3.		esolution of hu			(0)		(5)	Dagiena
	(A)		(B)	0.3 mm	(C)	0.6 mm	(D)	0.7 mm
4.	4	cle are found in			(-)	W. 3 75 1. W. D. F. F. E. B. V.	(-)	
	(A)	Fish	(B)	Cockroch	(C)	Leech	(D)	Earthowrm
5.	50 50	stain is used for					3 6	
	(A)	Pressure	(B)	Cholestrol	· (C)	Glucose	(D)	Salts
6.	Single	e circuit circula		ound:				
	(A)	Man	(B)	Cat	(C)	Fish	(D)	Bird
7.	Bacte	ria without any	flagella	a are:			(B) (B)	8
	(A)	Monotrichus	(B)	Atrichus	(C)	Lophotrichus	· (D)	Amphitrichus
8.	The n	nost abundant e	carbohy	drate is:		•		
	(A)	Starch	(B)	Cellulose	(C)	Glucose	(D)	Maltose
9.	The h	ypothesis that	plants s	plit water as	a source	e of hydrogen w	as given	by:
	(A)	Van Niel	(B)	Kreb	(C)	Calvin	(D)	Pasteur
10.	Photo	synthetic prok	aryotes	lack:		2 2		
	(A)	Ribosomes	(B)	Cytoplasm	(C)	Chloroplasts	(D) (Cell membrane
11.	Toma	to belongs to fa	amily:					
	(A)	Rocsaceae	(B)	Poaceae	(C)	Solanaceae	(D) .	Fabaceae
12.	Induc	e fit model was	propos	ed by:		10.40.00 00.000 00.00		
	(A)	Jenner	(B)	Pasteur	(C)	Koshland	(D)	Emil Fischer
13.		cellular, non m	-			0		
	(A)	Volvox	(B)	Ulva	(C)	Chlorella	(D)	Kelps
14.		nial nomenclati	_		4			2 P
	(A)	Pasteur	(B)	De Deuve	(C)	Lamark	(D)	Linnaeus
15.		nemone belong					(D)	
	(A)	Coelenterata		Arthropoda	(C)	Echinodermata	(D)	Annelida
16.		erum is a serun			(6)	_	1	
		Hormones	(B)	Antigen	(C)	Enzyme	(D)	Atibodies
17.		man body amo			160	7007	(175)	100/
	(A)	50%	(B)	65% .	(C)	70%	(D)	40%

1.			Α								C
7.	B	8.	В	9.	Α	10.	C	11.	C	12.	C
13.	C	14.	D	15.	A	16.	D	17.	В		

INTER (PART-I) LAHORE BOARD 2017 Biology Paper I (Subjective Type) Time Allowed: 2.40 Hours Group-I Maximum Marks: 68 NOTE:- Write same question number and its part number on answer book, as given in the question paper. SECTION-I 2. Attempt any eight parts. $8 \times 2 = 16$ Show peptide bond between two amino acids. i. ii. Define apoenzyme and prosthetic group. iii. Differentiate between competitive and non-competitive inhibitors. iv. Differentiate between pepsin and pepsinogen. What are conidia and spores? ٧. Diferentate between plasmogamy and karyogamy. vi. Differentiate between parazoa and eumeatazoa. vii. viii. What is archaeopteryx? Give its two characters. ix. Give two examples of sponges. Differentiate between polyps and medusase. X. Define photosynthesis. Write its equation. XI. Differentiate between antenna complex and reaction centre. xii. 3. Attempt any eight parts. $8 \times 2 = 16$ Differentiate between inductive and (i) (vii) Write down two characteristics of deductive reasoning. apicomplexans. (viii). What do you know about giant (ii) Define phyletic lineage. Give chemical composition of (iii) amoeba? primary and secondary cell wall. Differentiate between bryophytes and (ix) What are microfilaments? Give their tracheophytes. (iv) functions. Define double fertilization. (x) How ciliates differ from other Differentiate between plasmolysis (xi) (v) protozoans? and deplasmolysis. What are choanoflagellates? What are blue babies? (vi) (xii) 4. Attempt any six parts. $6 \times 2 = 12$ (i) What are prions? (v) How trypsinogen is activated? What are spiracles? (ii) Differentiate between tetrad and (vi) sarcina. Enlist types of respiration in frog. (vii) What is respiratory distress (iii) Define dyspepsia and also mention its (viii) characteristics. syndrome? (iv) Differentiate between appendix and What changes occur in diving reflex? (ix) appendicitis. SECTION-II NOTE: - Attempt any three questions. 5. (a) Discuss Biology in the serving of mankind in field of disease control. 4 (b) Soil water moves and reaches to xylem tissues by various pathways, explain. 6. (a) Explain polysaccharides with examples. (b) Describe digestion in hydra. 7. (a) Explain the structure and functions of lysosomes. (b) Write a note on Calvin Cycle. 8. (a) Explain lytic cycle of bacteriophage. 4 (b) Write a note on lycopsida. 9. (a) Discuss the use and misuse of antibiotics. 4 (b) Describe different methods of asexual reproduction found in fungi.

Time	Allowe	d: 20 Minutes		Group-II				num Marks: 17	
			e for eac	ch objective type	ques	tion as A. B. C.			
				ircle in front of t					
				wo or more circ					
				as given in obje					
				led in case. BUE					
		eet of OBJECTI							
1-1	Orga	nelle of symbio	tic orig	in is:					
	(Δ)	Mitochondria	(B)-	Vacule	(C)	Ribosome	(D)	Golgi body	
2.	Thyla	ikoid membran	ies are	involved in ATI	synt	hesis by :			
	(A)	Glycolysis	(B)	Dark reaction	(C)	Chemiosmo	osis (D)	Photo lysis	
3.	Germ	theory of disea	ase was	formulated by	:			37 Est	
	(A)	Robert Koch	(B)	Louis Pasteur	(C)	Edward Jen	ner (D)	Christian Gram	
4.	Ancyl	lostoma duodei	nale is c	commonly know	n as				
	(A)	Flat worm	(B)	Tap worm	(C)	Hookworm	(D)	Fluke	
5.	A gro	up of similar c	ells tha	t performs a spe	ecific	function is cal	led :		
	(A)	Organ	(B)	Tissue	(C)	Organelle	(D)	Organ system	
6.	Mosse	es belong to the	subdiv	ision:					
	(A)	Hepaticopsida	(B)	Bryopsida	(C)	Anthoceropsic	fa (D)	Ascomycota	
7.	In ma	le human bein	gs the a	mount of red b	lood o	ells per cubic	millimet	er is :	
	(A)	5-5 ½ million	(B)	4-4 ½ million	(C)	6-6 1/2 millio	on (D)	3-3 1/2 million	
8.	The p	artly digested t	food in	cockroach is ter	mpor	arily stored in	:		
	(A)	Crop	(B)	Gizzard	(C)	Rectum	(D)	Stomach	
9.	Chang	ge in water pot	ential o	f a system due t	o the	presence of sol	ute mole	cules is called:	
	(A) Pressure potential - (B) Solute potentia							tial	
	(C) Matric potential (D) Gravitational potential								
10.	The sp			ation of water i					
	(A)	574 Kcal / kg	(B)	374 Kcal/kg	(C)	474 Kcal / kg	g (D)	674 Kcal / kg	
11.	Rhizo	pus belongs to	the phy	/lum:			3		
	(A)	Ascomycota	(B)	Basidiomycota	(C)	Zygomycot	a (D)	Deuteromycota	
12.	In the	lungs of birds	tiny thi	in walled ducts	for co	onstant ventila	tion are	called :	
	(A)	Gill rakers	(B)	Parabronchi	(C)	Larynx	(D)	Pharynx	
13.	. In phy	ylum coelenter:	ata spec	cial cells enidoc	ytes g	ive rise to :		9 9	
	(A)	Polyps		Nematocysts				Gemmules	
14.			ic oxid	ized compounds	are	reduced to ene	rgy rich	carbohydrates	
	during					d			
	(A)	(25)		Photosynthesis		Developme	nt (D)	Growth	
15.				olasma membra					
	(A)	60-80 %	(B)	30-60%	(C)	20-40%	(D)	10-20%	
16.				mold is called:					
		Thallus	(B)	Hyphae	(C)	Mycelium	(B)	Plasmodium	
17.				aw materials fo				*.	
	(A)	Coenzymes	(B)	Activators	(C)	Holoenzym	es (D)	Apoenzymes	
	-		Series I	to the same of the	NAME OF				
		1. A 2	Section 20	3. A 4.			6. B		
		7. A 8	10000000	9. · B 10			12. B	1	
		(13. B 14	·B	15. C 16	D	17. A	4		

INTER (PART-I) LAHORE BOARD 2017

	INTER (PART-I)	LAH	ORE		3042				
Biolog	gy			Paper I (Subjective					
		Group-		Maximum Marl					
NOTE	E:- Write same question number and its par			swer book, as given in the question p	paper.				
2 4		ECTIO	<u>)N-1</u>	16	6				
	Attempt any eight parts. What F.Sanger concluded about insular	lin')		10)				
(i) (ii)	Differentiate between prosthetic grou		CO-PRZVE	ne					
(iii)	What do you mean by induce fit mod								
(iv)	Write down the effect of high temper								
(v)	What is histoplasmosis? How does its								
(vi)	Differentiate between septate and non-septate hyphae.								
vii)	What is metameric segmentation? In	which	phylum	is it present?					
viii)	Differentiate between radial and bilat	eral sy	mmetry.						
(ix)	What is metamorphosis?								
(x)	Give three basic characteristics of cha		i.						
(xi)	Give the function of spectrophotomet Define glycolysis. Where does it take)						
xii)	ttempt any eight parts.	prace	•	16	5				
(i)	Define bioelements. Give two examp	oles.	(vi)	How algae differ from plants?	53				
(ii)	Differentiate between deductive and		(vii)	What is giant amoeba?					
(11)	inductive reasoning.	•	(viii)	Write down two characteristi	cs of				
(iii)	Define fluid mosaic model of cel	I	. (*1117)	dinoflagellates.	03 0				
(111)	membrane.		(iv)	Define cercinate vernation.					
Con		. "	(ix)						
(iv)	Write down the two functions of golg	l	(x)	Define ovule and embryo sac.	2027				
6.5	complex.	14	(xi)	What is humoral immune respon					
(v)	What is chlorella? Give	its	(iix)	Differentiate between thrombu	s and				
	importance.			embolus.					
15.	ttempt any six parts.			12	2				
(i)	Define binomial nomenclature. Give								
(ii)	Differentiate between lophotrichous a		phitriche	ous.					
(iii)	How diarrhea and constipation are ca								
(iv)	Differentiate between ingestion and e			What is heart bum or pyrosis?					
(vi)	How air is better respiratory medium	than w	ater?						
(vii)	What is asthma? Give its causes.		(viii)	State myoglobin and its function	ons.				
(ix)	Describe the CO2 concentration in ar	tery an	d venou	s blood of man.					
	SE	CTIO	N-II						
	E: - Attempt any three questions.	20							
5.	(a) Write a comprehensive note on fu	inction	is of bloc	od.	4				
	(b) What is cloning? Discuss its meth	ods an	d applica	ation.	4				
6.	(a) Discuss Watson and Crick model	of DN	Α.		4				
	(b) Discuss the process of nutrition in	insect	ivorous	plants.	4				
7.	(a) What are lysosomes? Give their fu	inction	is.		4				
	(b) Draw and label Z-scheme/non-cyc	clic pho	osphoryl	ation.	4				
8.	(a) What is hepatitis? Give its sympton				4				
	(b) Describe life cycle of adiantum.			1	. 4				
9	(a) Describe nutrition in bacteria.				4				
1/					4				
1000	(b) Give economic gains of fungi.				7				