Name:	ID No	:	_ Tutorial Section:	
BIRLA INSTI	TUTE OF TECHNOLOGY	AND SCIENCE, PIL	ANI-HYDERABAD CAMPUS	
	BIO F111 (GENERAL BIOLOG	Y)	
A	FIRST SEI	MESTER (2022-23)		
	ANNOUNCED	QUIZ-1 (CLOSED	воок)	
DATE: 13/12/2022	MARKS:	30 DUR	ATION: 30 MINUTES	
Instructions:				
	he most appropriate ar	nswer using a PEN	I.	
	of 30 questions each c	-		
(3). Please write you	r NAME, ID No. and TU	TORIAL SECTION i	n <u>bold letters</u> .	
1 Which of the follow	wing statement about li	ving organisms is:	false?	
	n energy to perform life	0 0	raise:	
(B). Organisms repro-	• • •	delivities		
	ed by DNA controls the	pattern of growth	and development	
• •	derlies the capacity of p		·	
2 Δ carnivorous Ven	us flytran closing its leav	ves ranidly to inse	ct touch is an example of	
	Ability to respond			
3. Which of these is t	he accurate order to car	ry out formal pro	cess of inquiry, i.e. scientific metho	od
for carrying out hypo	thesis driven science?			
(A). Prediction – Expe	eriment – Hypothesis –	Question – Observ	vation	
•	uestion – Hypothesis – F	<u>.</u>	iment	
(C). Observation - Hy	pothesis – Question – F	rediction		

- (D). Experiment Prediction Question Hypothesis Observation

4. The combination of	and	molecules result in the formation of fats.
(A). Glycerol and Glucose		(B). Ethanol and Fatty acid
(C). Glycerol and Fatty acid		(D). Glycerol and Amino Acid

- 5. In DNA the base pairing involves
- (A). Sugar-phosphate bonds (B). Peptide bonds
- (C). Hydrogen bonds (D). Both A and B

6. Building polymers of carbo	hydrate and prote	in from their resp	ective monomers,	and breakdown
of these polymers to their respectively.	= = = = = = = = = = = = = = = = = = = =			
(A). dehydration and hydroly	vsis (B) hvdro	olysis and dehydr	ation	
(C). oxidation and reduction				
7. Amino acids of different ty	•	_	•	
(A). hydrogen atom (B). c	arbonyl group	(C). side chain	(D). amino group	1
8. The three-dimensional str(A). pH(B). Temperature(C). Change in amino acid se(D). All the above		n and its molecula	er function can be a	affected by
9. Which of the following is t (A). Enzymes increase activa (B). Activation energy requienzyme	tion energy of the	products	oon binding of sub	strate with the
(C). Entry of substrate into a (D). Both B and C are true	ctive site of enzym	e causes the enzy	yme to change sha	pe slightly
10. The following is a short: The sequence on the other s	-	uence on one of t	he strands of DNA	: ATTGGCCCGA
(A). ATTGGCCCGA (B). TAA	ATTAAACT (C).	CGGAATTTAC	(D). TAACCGGGCT	Ī
11. In an animal cell, attachr(A). Nuclear membrane (B				
12. Identify the organelle the manufacturing of polysaccha (A). Golgi apparatus (B). N	rides and lipids, p	ackaging molecul	es in sacs.	
	es in a eukaryotic o Smooth endoplasi Nucleolus	_	·	

14	in the cells of flower	petals may contain p	pigments that attract pollinating
insects.			
(A). Chloroplast	(B). Central vacuole	(C). Golgi Apparatus	(D). Nucleolus
15. Which of the fo	ollowing is true about cel	l's cytoskeleton?	
(A). It can be quick	dy dismantled in one part	of the cell by removing	ng protein subunits.
(B). It may cause the	he whole cell or some of i	its parts to move.	
(C). It may re-form	n in a new location by reat	ttaching the protein su	ubunits.
(D). All of the above	/e		
16. Which of the fo	ollowing statement is inco	orrect for mitochondri	ia?
	d in almost all eukaryotic		
· · · · · · · · · · · · · · · · · · ·	naerobic respiration takes		de them
	ATP from the energy of fo		
(D). They have the	= -		
() = 1			
17. Most plant cell	ls do not contain		
	(B). Mitochondria (C). Vacuole
•	. ,	. ,	•
18. Organelles tha	t act as cellular power sta	ntions area	and
(A). Ribosome and	l Golgi apparatus (B).	Mitochondria and Ch	loroplast
(C). Mitochondria	and Ribosome (D).	Mitochondria and Cy	toskeleton
19. Which of the fo	ollowing cellular transpor	t process does not red	quire energy?
(A). Facilitated diff	fusion (B). Active transp	oort (C). Osmosis	(D). Both A and C
20. A shortage o	of phosphorus in the so	il would make it es	pecially difficult for a plant to
manufacture			, a
	B). Proteins (C). Co	ellulose (D). Fat	tty acids
. ,	, , , ,	, ,	•
21. Which step of	cellular respiration can or	ccur without oxygen?	
(A). ETC (B). C	Citric acid cycle (C). Gl	ycolysis (D). All t	he options are incorrect
22. Fermentation i	in yeast cells relies on onl	y stage o	f cellular respiration.
(A). ETC (B). C	citric acid cycle (C). Gly	colysis (D). All the	e options are correct
=	f ATP per glucose molecu		e absence of oxygen is
(A). 4 ATP (I	B). 32 ATP (C). 2 AT	P (D). 36 ATP	

24. Coenzyme A	(CoA) is an enzy	me derived fro	om			
(A). pyruvic acid	(B). ascorb	ic acid (C)	. Vitamin B	(D). Vitamin A		
25. Which molec	ule acts as an el	ectron accepto	or during glyc	olysis?		
(A). NAD+	(B). NADH	(C). FAD	(D). O ₂			
26 Cyanide whe	an hound to the	nrotein compl	ev in the elect	tron transport chain blocks		
(A). the passage		(B).		-		
(C). the passage						
27. Across which	of the following	g membranes i	orotons are pi	umped as part of electron transport		
chain and ATP ge		•	•			
(A). Outer memb	rane of chlorop	last (B). I	(B). Inner membrane of chloroplast			
		(D). A	(D). All the three membranes			
28. During photo	synthesis, whic	h of the follow	ing are produ	ced by reactions that take place in		
the thylakoids ar	nd are consume	d by the reacti	ons in the stro	oma?		
(A). CO_2 and ATP	• •					
(C). ATP and NAI	OPH (D). glu	cose and O ₂				
29. Choose the c	orrect statemer	nt from the give	en below			
(A). Chlorophyll a	absorbs green li	ght				
(B). Photosynthe	sis takes place o	only in prokary	otes			
(C). Light-depend	dent reactions to	ake place in str	oma of chloro	oplasts		
(D). None of the	above is correct					
30. Electrons los of:	t from chloroph	yll molecules i	n first photosy	ystem are replenished by the splitting	g	
(A). Oxygen	(B). Nitrogen	(C). H ₂ O ₂	(D). H ₂ O			