Paper Code Number: 4461		2024 (1 st -A) INTERMEDIATE PART-II (12 th Class)		Roll No:		
BIO	LOGY PAPER	-II GROUP-I	MT	N-1-1	y	
TIM	E ALLOWED: 20	Minutes	OBJE	CTIVE	MAXIMUM MA	ARKS: 17
Q.No	correct, fill tha	t bubble in front o	f that question nu	mber, on bubb	and D. The choice vole sheet. Use mark mark in that quest	er or pen to fill the
S.#	QUEST		A	В	С	D
1	Which of the given the collecting duct of	is recovered in	Glucose	Water	NaCl	Potassium ions
2	The type of muscle striations multinucle voluntary is:	having regular eate and	Skeletal muscle	Smooth musc	cle Cardiac muscle	All types of muscles
3	Cyclic activity of cr regulated by:	ross bridges is	Calcium ions	Troponin	ATP	Actin
4	Given are the princ insulin except:	iple action of	Increasing glycogen synthesis	Increasing coutilization of glucose	f hydrolysis of glycogen	Promotes hydrolysis of glycogen
5	Cell bodies of sense constitute:	ory neurons	Dorsal root ganglion	Gray matte	Ventral root ganglion	Posterior root ganglion
6	Mature sperms are spermatids through		Meiosis-I	Meiosis-II	Differentiation	Mitosis
7	The head can be rea	generated in:	Earthworm	Frog	Leech	Grasshopper
8	Which of the given	is a stop codon?	UUG	UGA	UCU	CCA
9	To code 50 amino a polypeptide chain, minimum number o its gene?	what will be the	50	150	100	51
10	Which of the given syndrome?	is trisomy	Down's	Edward	Patau	All of these
11	Different alleles of both expressed in h condition are called	eterozygous	Complete	Incomplete		Over dominance
12	Which of the given matched?	is incorrectly	Protoplast – plant cell engineering	RFLPs – DN finger printi		DNA Ligase – Mapping humans chromosomes
13	Taq polymerase is because of its:	used in PCR	Low thermal stability	High therm stability	al High fidelity	High speed
14	Lyell published the	principles of:	Geology	Population	n Genetics	Ecology
15	Diseases in living are caused by para	organisms which sites are termed as:	Mutualism	Commensali	sm Infestations	Succession
16	Coniferous forest l latitude are called:		Alpine	Boreal	Taiga	Prairies
17	The decline in thic layer is caused by	kness of ozone increasing level of:	Hydrocarbon	Nitro carbo	on Chlorine	Chlorofluorocarbon

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INTI	2024 (1 st -A) ERMEDIATE PART	-H (12 th Class)	Roll No: MTN-1-24
BIOLOGY PAPER-II	GROUP-I		
TIME ALLOWED: 2.40 Hour		BJECTIVE	MAXIMUM MARKS: 68
NOTE: Write same question nu	mher and its narts nut	nber on answer boo	k, as given in the question paper.
OIE. Witte Same question na	SEC	TION-I	
. Attempt any eight parts.			8 × 2 = 16
(i) How metanephridium is be	tter than protonephridiu	m?	1+
(ii) Categorise the plants distrib	oution on the basis of os	moregulation.	2
(iii) How can you describe blub			2
(iv) Compare Epinasty with Hy			1+
(v) How would you define slid			2
(vi) How does jet propulsion m			2
vii) What are advantages of Ser	cual Reproduction?		1+
viii) How menstrual cycle is def			2
(ix) Mention role of light in Lin			2
(x) Compare Coniferous alpine	and Boreal forests.		1+
(xi) Define Greenhouse effect.			2
xii) Write any two sources of w	ater pollution.		2
. Attempt any eight parts.			$8 \times 2 = 16$
(i) What are the elements of no	ervous system?		
(ii) Which factors control secre	tion of Antidiuretic hor	none or Vasopressin	?
iii) Define Habituation. Give e	example.		
iv) Differentiate between Hom	ozygote and Heterozygo	ite.	
(v) What are multiple Alleles?			
vi) How does sex determination			
vii) How can gene of interest be	obtained?		
viii) What are the applications o	f PCR amplification and	l analysis?	
(ix) Mention forensic application	n of DNA analysis.		
(x) What is Biosphere?			
(xi) Define Food web. Give its			
xii) Write a note on Limnetic ze	one.		
. Attempt any six parts.			$6 \times 2 = 12$
(i) How do environmental fact			
(ii) Why growth pattern in plan	ts is called an open grow	vth?	
iii) What are Fixed alleles?			
iv) How can you differentiate l	etween Homologous ar	d Analogous organs	?
(v) Why do DNA replication a	Iways proceeds $5' \rightarrow 3'$	directions?	
vi) What is a Point Mutation?			
vii) How do different chromoso			
viii) How are cancerous cells dis	stinguished from normal	cells?	
ix) Is interphase a resting phase			ALIVE TO THE REAL PROPERTY OF THE PARTY OF T
		TION-II	
OTE: Attempt any three quest	ions.		3 × 8 = 24
(a) Explain different methods		V = CV	4
(b) What is Meiosis? Discuss	prophase-I of meiosis in	detail.	4
(a) Define Joints. How they a	re classified? Explain		4
(b) Define Succession? Expla			4
		0.51	71 711 11
(a) What is Synapse? How im	pulse can pass through	synapse? Discuss it v	with suitable diagram. 4
(b) Define Endangered species	. Explain three measure	es to save endangered	I species. 4
(a) What are autosomes and se	x-chromosomes? Expla	in sex-determination	in humans. 4
(b) Discuss the role of phytoch			4
	- Charles		
(a) Explain embryonic induction	on in detail.		fields 4
(b) What are transgenic bacter	a? Write down their pr	actical use in various	ineius. 4

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