Paper Code Number: 4463		INTE	2023 (1 st -A) INTERMEDIATE PART-II (12 th Class)			Roll No:			
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TIM	IE ALLOWE	D: 20 Minu	ites	OBJECTI	VE N	MAX	XIMUM MA	RKS: 17	
Q.No.1 You have four choices for each objective type question as A, B, C and D. The choice which yo is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or p fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question								r or pen to	
S.#		UESTIONS		A	В		С	D	
1	During cell divi	sion, nuclear	division	Cytokinesis	Karyokin	esis	Karyotype	Plasmolysis	
2	The gene of blu	e opsins is pr	esent on:	Autosome 9	Autosom	ne 1	Autosome 7	Autosome 3	
3	In cystic fibrosi is faulty resulting	ng in disease?		Magnesium	Calciu		Fluoride	Chloride	
4	During PCR ho separated:	w DNA doub	le helix is	treatment	By use DNA polymer	ase	By use of DNA helicase	By use of DNA ligase	
5	Organs which a but have differe			Hypologous	Homolog	gous	L'hilo cous	Analogous	
6	Bacteria and fu	ngi are examp	oles of:	Predators	Consum		Decomposers	Detritivores	
7	Zoological nam			Tells-leo	Macac mulatt		Solendroros	Felis bengalensis	
8	The decline in t layer is caused			blo ofluoroca por			Chlorine	CO ₂	
9	Which portion control of ADI	P	DO	Poweran's leapsule	Jimb	-	Distal end and collecting duct	Descending limb	
10	How many formation of	ch half of	Bullet	3 bones	2 bone	es	4 bones	5 bones	
11	What do we call of a muscle fibe		ace membran	Sarcomere	Twitch f	iber	Sarcolemma	Capsule	
12	Effectors in hur to stimulus are		ich respond	Glands only	Bone	S	Muscles only	Glands and muscles	
13	β – cells of par	ncreas secrete	hormone:	Insulin	ADH]	Glucagon	Gastrin	
14	Which disease	is sexually tra	insmitted?	Tuberculosis	AIDS	3	Dengue fever	Cholera	
15	Primary growth	is due to the	activity of:	Apical meristem	Intercal meriste	em	Lateral meristem	Cork cambium	
16	rRNA in eukary	yotes is synth	esized by:	DNA ligase	polymera	se II	RNA polymerase III	RNA polymerase I	
17	Start codon AU amino acid:	G represents	the	Serine	Prolin	ne	Methionine	Valine	

2023 (1st-A) INTERMEDIATE PART-II (12th Class)

Roll No: MTN-12-1-

BIOLOGY PAPER-II GROUP-I

TIME ALLOWED: 2.40 Hours SUBJECTIVE MAXIMUM MARKS: 68

NOTE: Write same question number and its parts number on answer book, as given in the question paper. SECTION-I

SECTION-I	
Attempt any eight parts.	8 X 2 = 16
Why leaves are called excretophores?	
How most plants have adapted to survive in heat stress?	
Why does body temperature increase in fever?	
Differentiate between thermonasty and photonasty.	
Name unpaired facial bones.	
What is muscle fatigue? Give its cause.	
In which way does germinating pollen tube help the plant?	
How can you say that water is compulsory for external fertilization?	
Give four examples of desert ecosystems in Pakistan.	
What do you know about plant and animal life in tundra?	
Give four ways by which we can save energy.	
Why forests are important for us?	
ttempt any eight parts.	8 × 2 = 16
Differentiate between Habituation and Imprinting.	
Name the synthetic auxins and describe their commercial applications.	
Why anterior lobe of pituitary gland is called master gland?	
What is sex limited trait? Give an example.	
low Epistasis differ from dominance?	
hat do you know about protanopia and deuteranopia?	
w recombinant DNA is formed?	
hat are the two primary goals of human genome project?	
hich type of technique is used to replace faulty genes in the body?	
w nitrogen depletion from soil is being overcome in nature?	
etch food chain to show various trophic levels?	
moderate grazing is helpful for ecosystem?	
trompt any six parts.	$6 \times 2 = 12$
What is Meristem? Names its types.	
Differentiate between Area Pellucida and Area Opaca.	
That are the properties of Genetic code?	
How transcription bubble is formed?	
is the chemical composition of chromosome?	
What is Down's syndrome? Give their symptoms.	Marie
un you differentiate between cancerous and normal cells?	
hat are vestigial organs? Give example	
That was the peculiar features of Finches of Galapagos?	
SECTION-II	
Attempt any three questions.	3 × 8 = 24
What is dialysis? Exclain procedures of hemodialysis and peritoneal dialysis.	4

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SECTION-II	3 × 8 = 24
Attempt any three questions.	3 / 0 - 24
What is dialysis? Exclain procedures of hemodialysis and peritoneal dialysis.	4
at is mitosis? How does mitosis take place in animal cell?	4
now does a fractured bone recover to its normal position after physical trauma?	4
hat is Grazing? Give its significance.	4
Define Nerve impulse. Explain the mechanism involved by labbelled diagram.	4
Fow did evolution proceed from Prokaryotes to Eukaryotes?	4
are the techniques of raising genetically identical plants and animals.	2 + 2 = 4
low does an allele affect its partner in a gene pair completely and incompletely?	2 + 2 = 4
Write down the process of development of nervous system from ectoderm in chick.	4
What is recombinant DNA? Explain the process of expression of Recombinant DNA.	4
27-2023(1 st -A)-13000	(MULTAN)