# INTERMEDIATE PART-II (12th CLASS)

RIOL	JOGY	PAPER-I	I (NEW SCHE	ME) GROUP-1			
TIME	ALLO	WED: 20 N	Ainutes	<b>OBJECTIVE</b>	MAXIMUM MARKS: 17		
think i Cuttin questic	s correct g or fillir ons as giv	t, fill that bu ng two or mo ven in object	bble in front of that ore bubbles will resu- tive type question pa	question number. Us It in zero mark in the per and leave others	B, C and D. The choice which you se marker or pen to fill the bubbles. It question. Attempt as many blank. No credit will be awarded in f OBJECTIVE PAPER.		
Q.No.1							
(1)			irds are example of:		-		
(2)	(A) Ecto		(B) Endotherms	(C) Heterotherms	(D) Poikilotherms		
(2)			le is produced in fishe				
(2)		ilaginous	(B) Bony	(C) Fresh water	(D) Marine water		
(3)	The inflammatory degenerative disease of joint is:  (A) Arthritis (B) Sciatica (C) Herniation (D) Spondylosis						
. 45			(B) Sciatica	(C) Herniation	(D) Spondylosis		
(4)			ed coats and nut shells				
e e c	(A) Fibro		(B) Sclereides	(C) Vessels	(D) Trachea		
			periments on dog to pr				
					ex II (D) Imprinting		
			first studied by Garner				
		311.		(C) 1922	(D) 1924		
(7) - 1312s	The incre (A) ACT	ease of level	of estrogen stimulates				
701	(A) ACI	H Andrews	(B) FSH	(C) Progesterone	(D) LH		
		2004 NO. 10 PROCESSOR	plasm gives rise to:	(2) 14 11 11	/DVT11		
		irul tube	(B) Gut	(C) Muscle cells	(D) Larval epidermis		
			amino acid methionin		(D) 1110		
		S 150 C 2. Lil		(C) CGC	(D) AUG		
	mitosis a	it the beginni	ing of:		mes appear as thin thread in		
	(A) Inter		(B) Prophase	(C) Metaphase	(D) Anaphase		
(11)	A 104,500		l each other during:				
			(B) Pachytene	33 30 30	(D) Diakinesis		
(12)	20,000			pic and genotypic rati			
	(A) Dor		(B) Incomplete dom		(D) Co-dominance		
(13)			y soybeans can be use				
22722	(A) AID		(B) Hepatitis	(C) Herpes simplex	(D) Genital herpes		
(14)			ibiont was purposed b				
	(A) Cuv		(B) Lyell	(C) Malthus	(D) Margulis		
(15)			ng is macronutrient?				
	(A) Zinc	4	(B) Iron	(C) Sulphur	(D) Iodine		
(16)	7. V		on is formed by:				
	(A) Fun	V0.502 2027	(B) Algae	(C) Bacteria	(D) Cyanobacteria		
(17)		f Nitrogen ca					
	(A) Lun	g Cancer	(B) Cough	(C) Brain damage	(D) Cholera		
89	er in the	test o		27(Obj)(🏠)	-2019(A)-12000 (MULTAN)		

Roll No: MTN-12-G1-19

 $6 \times 2 = 12$ 

## INTERMEDIATE PART-II (12th CLASS)

JOGY PAPER-II -(NEW SCHEME) GROUP-I

.E ALLOWED: 2.40 Hours

SUBJECTIVE

MAXIMUM MARKS: 68

FE: - Write same question number and its part number on answer book,

as given in the question paper. SECTION-I 1 Attempt any eight parts.  $8 \times 2 = 16$ (i) Write two adaptations of hydrophytes. What are heat shock proteins? (ii) Why temperature of the body increases during fever? (iii) (iv) How muscle fatigue is produced? Differentiate between tendons and ligaments. (v) (vi) What is herniation of disc? (vii) Write two primary goals of human genome project. What is Probe? Give its use. (viii) Differentiate between weather and climate. (ix) Define productivity of an ecosystem. (x) (xi) Write two effects of acid rain. (xii) Define soil and write its constituents. Attempt any eight parts.  $8 \times 2 = 16$ 

3. (i) Write down two commercial applications of Gibberellins. (ii) Write down two major functions of mid brain. What are the abnormalities caused by the destruction of the adrenal cortex? (iii) (iv) Write down few words on Genital Herpes.

(v) Write down the name of interstitial hormone. What are its functions?

(vi) Define Parthenocarpy. Write down the names of two fruits in which it occurs.

(vii) Define Jumping Genes.

Charles of

100 100 100

1.

Differentiate qualitative traits from quantitative traits.

(x) What is Biome? Write down the names of two terrestrial biomes.

..(xi) Define autecology and synecology.

(iix) What are root modules? Give an example.

Attempt any six parts. What is the difference between inhibitory effect and compensatory effect? (i) Differentiate between growth and development. (ii) (iii) What is metastasis? (iv) What happens during metaphase 1? : Give two measures to protect the endangered species. (v) (vi) Define homologous organs with an example. (vii) Define central dogma. (viii) What are Okazaki fragments? (ix) Define karyotype.

	SECTION-II	
	- Attempt any three questions.	$3 \times 8 = 24$
·.(a)	Give an account of Excretion in Planaria.	4
(p)	Write a note on Grazing.	4
·.(a)	Define paratonic movements in plants. Describe Nastic movements in detail.	4
(b) :	How did Meselson and Stahl show that DNA replication is semi-conservative?	4
.(a)	Discuss hormones of anterior lobe of pituitary gland.	4
(b) .	Explain the terms deforestation and afforestation.	4
.(a)	Write a note on Birth.	4
(b)	Define and explain incomplete dominance in plants.	4
· (a).	Write comprehensive note on growth correlations.	4
(b)	State and explain the Hardy-Weinberg theorem.	4

27-2019(A)-12000 (MULTAN)

Roll No. MTN-12-6,=19

# per: 4462 INTERMEDIATE PART-II (12th CLASS)

ME ALLOWED: 20 Minutes OBJECTIVE MAXIMUM MARKS: 17

## LOGY PAPER-II (NEW SCHEME) GROUP-II

hink i Suttin Juestic	You have four choices for one correct, fill that bubble in g or filling two or more bubbles as given in objective type UBBLES are not filled. Do	front of that question bles will result in zer e question paper and	number. Use marke o mark in that questic leave others blank. N	er or pen to fill the bubbles. on. Attempt as many No credit will be awarded in				
).No.1								
1)	ADH affects which part of n	ephron? (	A) Walls of collecting	uct				
	(B) Glomerulus	(C) Walls of loop of	Henle (D) Pr	oximal convulated tubule				
(2)	Hag fishes are:							
	(A) Osmoregulators	(B) Isotonic	(C) Hypertonic	(D) Hypotonic				
3)	All of the following are associated	ciated with coxal bone	except:					
	(A) Ilium	(B) Ischium	(C) Pubis	(D) Clavicle				
4)	The angular thickening in primary wall of cell is present in:							
	(A) Parenchyma	(B) Collenchyma	(C) Sclerenchyma	(D) Sieve tubes				
5) Which type of light promote germination of Fern spores?								
r.i	(A) Green	(B) Red	(C) Blue	(D) White				
6)	Temperature around 4°C st	imulates the productio	n of:					
128931	(A) Florigen	(B) Vernalin	(C) Auxins	(D) Ethene				
7) :	The stage that lasts for days,	weeks or even years:						
	(A) Leptotene	(B) Zygotene	(C) Pachytene	(D) Diplotene				
8)	Cell death due to tissue dama	age is called:						
M035	(A) Apoptosis	(B) Metastasis	(C) Necrosis	(D) Suicide				
9) (1)	The simplest form of learning	ng behaviour is:		a February				
	(A) Imprinting	(B) Habituation	(C) Insight learning	(D) Latent learning				
10)	In which developmental stag	e, germ layers are form	ned?					
	(A) Cleavage	(B) Blastula	(C) Gastrula	(D) Organogenesis				
(11)	Which strand of DNA is train	nscribed?						
	(A) Coding	(B) Sense	(C) Template	(D) Both strands				
(12)	The type of inheritance with	same phenotypic and	genotypic ratio, in F2:					
	(A) Dominance	(B) Epistasis	(C) Incomplete domi	inance (D) Co-dominance				
13)	The children with "SCID" la	ack an enzyme:	(A) α - galactosis	dase				
	(B) Phenylalanine hydroxyl	ase (C) Adenosi	ne deaminase (D	) Succinic dehydrogenase				
(14)	Hamologous structures repr	esent:						
	(A) Convergent evolution	(B) Analogy	(C) Divergent evolut	tion (D) Functional similarity				
(15)	Limnetic phytoplankton incl	udes:						
	(A) Bucteria	(B) Algae	(C) Mosses	(D) Cyanobacteria				
(16)	Study of single population's	s relationship to enviro	onment is:					
	(A) Autecology	(B) Synecology	(C) Ecology	(D) Community ecology				
(17)	The cause of Kwashiorkor di	sease is:		Assertation assessment of SSE 33 year systematics and the second				
	(A) Pathogen	(B) Metabolic disord	ler (C) Nutritional d	eficiency (D) Aging				

28(Obj)(🏠)-2019(A)-7000 (MULTAN)

Roll No: MTN-12-62-19

### INTERMEDIATE PART-II (12th CLASS)

GROUP-II

OLOGY PAPER-II (NEW SCHEME)

IME ALLOWED: 2.40 Hours

SUBJECTIVE

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.  $8 \times 2 = 16$ Write at least two important characters of Hydrophytes. (i) (ii) Differentiate between Osmoconformer and Osmoregulators. What is Pyrogen? Give its role. (iii) (iv) How exercise effect the muscle? (v) What is secondary growth? How it occurs? Define Bone. Write the names of cells associated with the bone. (vi) (vii) What are Restriction Endonucleases? (viii) Define Taq Polymerase. Give its source. (ix) Differentiate between alpine and boreal forest. (x) Give the characteristics of profundal zone. (xi) What is ozone layer? (xii) Write two disadvantages of Nuclear energy. 3. Attempt any eight parts.  $8 \times 2 = 16$ Write any two commercial applications of Gibberellins. (i)

- (ii)
- Describe action of Nicotine on coordination in animals.
- (iii) Discuss the role of progesterone in reproductive cycle of human females.
- (iv) What is "Fruit set" in plants? Discuss the role of pollen grain in it.
- (v) Describe Spermatogenesis-the formation of sperms in human males.
- (vi) What is Menupause?
- (vii) Write down any four contrasting traits of garden pea studied by G. Mendel.
- (viii) What is Over-Dominance?
- (xi) .Describe XO - XX type of sex determination.
  - What do you know about Commensalism? (x)
  - Define Predation. Explain it with at least two examples. (xi)
  - (xii) Define Plant Succession.

### 4. Attempt any six parts. $6 \times 2 = 12$ (i) What is embryonic induction? (ii) What is Neuvolation? What is crossing over? (iii) (iv) Differentiate between Karyokinesis and Cytokinesis. What is a gene frequency? (v)

- (vi) State Hardy-Weinberg theorem.
- (vii) Differentiate between Euchromatin and Heterochromatin.
- (viii) What is Transcription?

. 14

11.11.11 10 the Level

(ix) What is nucleotide and nucleoside?

### SECTION-II

NOTE:	: - Attempt any three questions.	$3 \times 8 = 24$
5.(a)	Give a detailed account on excretory system in earthworm.	4
(b)	Describe the $N_1$ -cycle.	4
6.(a)	What are Joints? Describe their different types.	4
(b)	Describe how Hershey and chase prove that DNA is the heredity material?	4
7.(a)	Describe the functions of thyroid gland.	4
(b)	What is acid rain? State its cause and effects on environment.	4
8.(a)	What are different physiological changes occur during the process of birth in human fema	ıle? 4
(b)	Define incomplete dominance. Explain it with an example.	4
9.(a)	Describe role of nucleus in development.	4
(b)	Describe comparative anatomy and comparative embryology as an evidence of evolution	. 4

28-2019(A)-7000 (MULTAN)