2018 (A) Roll No:

	INTERMEDIATE P.	ARI-II (12" CLASS
BIOLOGY	(NEW SCHEME)	CROUP.I

TIME 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.

		B. an in detailor paper.		
		SECTION	N-I	
2.	(i)	Attempt any eight parts. What is Lithotripsy?		$8\times 2=16$
	(ii) (iii) (iv)	Why temperature of body increases during feve Differentiate between fibres and sclereides. What is "All or None response"?	r? Explain.	
	(v) (vi) (vii) (viii) (ix) (x) (xi) (xii)	Define Vernalisation. What is meant by "After birth"? Differentiate between Climate and Weather. Define Productivity of an Ecosystem. What are heat-shock Proteins? What is cause and symptoms of Rickets? How forests act as environmental buffers? Define Demography.		
3.	(i) (ii) (iii) (iv)	Attempt any eight parts. Define Nissl's granules. What are Neurotransmitters? Give examples. Write two functions of Parathyroid gland. Differentiate between gene and allele.		8 × 2 = 16

Define Crossing Over. Give its importance. (vi) Write three methods to get gene of interest. (vii)

What is Probe? How is it traced? (viii)

(v)

(ix) What do you know about the Particle Gun?

(x) Compare Autecology with Synecology.

(xi) Differentiate between Primary and Secondary Succession.

What is Epistasis? Differentiate it from dominance.

(xii) What are Lichens? Write its significance.

Attempt any six parts. 4. (i) Write practical applications of Apical dominance. (ii) Write about cleavage and discoidal cleavage. (iii) Write the functions of DNA polymerase III. Differentiate between Pyrimidines and Purines. (iv) (v) Define Phenylketonuria. (vi) Write symptoms of Turner's Syndrome.

(vii) Define cell cycle. Write its phases.

Define Hardy-Weinberg Theorem and also write its formula. (viii)

What is Endosymbiont hypothesis? (ix)

SECTION-II

NOT	E: - Attempt any three questions.	$3 \times 8 = 24$
5.(a)	Discuss the nature of excretory products in different habitats.	$3 \times 8 = 24$
(b)	Define Ecosystem. Describe various components of an ecosystem.	4
6.(a)	Describe Exoskeleton in arthropods. Write its advantages and disadvantages.	4
(b)	Explain one-gene/one-polypeptide hypothesis.	4
7.(a)	Define nerve impulse. Explain factors responsible for resting membrane potential.	4
(b)	Write a note on Wild life.	4
8.(a)	Write notes on:- (i) Seed Dormancy (ii) Fruit set and Fruit ripening	4
(b)	Describe genetic basis of ABO blood group system.	4
9.(a)	Write a note on abnormal development.	4
(b)	Discuss comparative anatomy as an evidence of Evolution.	4

 $6 \times 2 = 12$

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2018 (A)

Roll No.____

Number: 446

INTERMEDIATE PART-II (12th CLASS)

	E ALLOWED: 20] : You have four choi		OBJECTIVE type question as A, B, C an	MAXIMUM MARKS: 17 d D. The choice which you		
think Cutti quest	is correct, fill that buing or filling two or milions as given in object BUBBLES are not fill	abble in front of that of ore bubbles will resul- tive type question pap	uestion number. Use mark t in zero mark in that questi	er or pen to fill the bubbles. ion. Attempt as many No credit will be awarded in		
(1)	is not Endot	herm.				
	(A) Bird	(B) Amphibian	(C) Flying insect	(D) Some fishes		
(2)	Glomerular filtrate a	re reabsorbed in:-				
	(A) Proximal tubule	(B) Bowman's capsu	le (C) Loop of Henle	(D) Distal tubule		
(3)	The membrane that b	ounds vacuole is called	l:-			
	(A) Primary cell	(B) Vascular wall	(C) Pelicle	(D) Tonoplast		
(4)	In birds, the sternum	is modified to form:-				
	(A) Keel	(B) Neck	(C) Rib	(D) Clavicle		
(5)	Fruit ripening is often	n accompanied by a but	rst of respiratory activity calle	ed:-		
	(A) Biometric	(B) Redox	(C) Climacteric	(D) Photorespiration		
(6)	An example of long-	day plants is:-		A Walter		
	(A) Tomato	(B) Cabbage	(C) Corn	(D) Soyabean		
(7)	Mongolism is the oth	ner name of:-				
	(A) Klinefelter's Syr	ndrome (B) Turner's S	yndrome (C) Down's Syndr	ome (D) Jacobs		
(8)		yeast cells is complete				
	(A) 24 hours	(B) 4.5 hours	(C) 30 minutes	(D) 90 minutes		
(9)	The cytoplasmic pro	cess/fibres which carry	impulse towards cell body is	317.802.5		
	(A) Dendron	(B) Axons	(C) Nissl's granules			
(10)	The human life span	is judged to be maximu				
	(A) 60 – 70 years	(B) 70 – 100 years		(D) 130 – 135 years		
(11)	In sickle cell anemia	code for glutamic acid		(-) ,		
	(A) Leucine	(B) Histidine	(C) Valine	(D) Proline		
(12)	Universal recipient b	blood group is blo		(=)		
	(A) A	(B) B	(C) AB	(D) O		
(13)	An enzyme α – gala is harvested from:-		sed to treat a human lysosome			
	(A) Soyabeans	(B) Tobacco plants	(C) Sugarcane	(D) Corn plants		
(14)	The first photosynthereducing CO_2 to:-	etic organisms probably	used Hydrogen Sulphide as	a source of Hydrogen for		
	(A) Sugars	(B) H_2CO_3	(C) RUBP	(D) Malate		
(15)	Primary succession may start in a dry soil or rock is called:-					
	(A) Hydrosere	(B) Xerosere	(C) Desert	(D) Derosere		
(16)	Cacti and Euphorbia	are the desert plants w	hich store water in their:-	*		
	(A) Fleshy leaves	(B) Fleshy buds	(C) Fleshy stems	(D) Fleshy roots		
(17)	A single chlorine atom (A) One million O_3	m can react with ultravi molecules (B) Th	olet rays and destroy as many ree millions O_3 molecules	A STATE OF THE PROPERTY OF THE		
	(C) Four millions O_3		α millions O_3 molecules			
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TIME ALLOWED: 20 Minutes

INTERMEDIATE PART-II (12th CLASS)

TIM	IE ALLOWED: 20	Minutes	OBJECTIVE	MAXIMUM MARKS: 17		
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(1)	The first photosymetreducing CO_2 to:-	thetic organisms probab	ly used Hydrogen Sulphide as	a source of Hydrogen for		
	(A) Sugars	(B) H_2CO_3	(C) RUBP	(D) Malate		
(2)	Primary succession	may start in a dry soil o	or rock is called:-			
	(A) Hydrosere	(B) Xerosere	(C) Desert	(D) Derosere		
(3)	Cacti and Euphorbi	a are the desert plants w	hich store water in their:-			
	(A) Fleshy leaves	(B) Fleshy buds	(C) Fleshy stems	(D) Fleshy roots		
(4)	A single chlorine at (A) One million G (C) Four millions G is not Ende	O_3 molecules (B) The contract (B) The contract (D) Single (D)	violet rays and destroy as many hree millions O_3 molecules ix millions O_3 molecules	y as:-		
	(A) Bird	(B) Amphibian	(C) Flying insect	(D) Some fishes		
(6)	Glomerular filtrate		() - July move	(B) Some fishes		
		e (B) Bowman's capsu	lle (C) Loop of Henle	(D) Distal tubule		
(7)		bounds vacuole is called		(2) Dictar table		
	(A) Primary cell	(B) Vascular wall	(C) Pelicle	(D) Tonoplast		
(8)	In birds, the sternum is modified to form:-					
	(A) Keel	(B) Neck	(C) Rib	(D) Clavicle		
(9)	Fruit ripening is often	en accompanied by a bu	rst of respiratory activity calle			
	(A) Biometric	(B) Redox	(C) Climacteric	(D) Photorespiration		
(10)	An example of long	-day plants is:-	***	(//		
	(A) Tomato	(B) Cabbage	(C) Corn	(D) Soyabean		
(11)	Mongolism is the o	ther name of:-	24246.5	137 37 7 13 1003		
	(A) Klinefelter's Sy	rndrome (B) Turner's S	Syndrome (C) Down's Syndrome	ome (D) Jacobs		
(12)		n yeast cells is complete				
	(A) 24 hours	(B) 4.5 hours	(C) 30 minutes	(D) 90 minutes		
(13)	The cytoplasmic pr	ocess/fibres which carry	impulse towards cell body is			
	(A) Dendron	(B) Axons	(C) Nissl's granules			
(14)	The human life spar	is judged to be maximu		No. 7 Constitution and the second		
	(A) $60 - 70$ years	(B) 70 - 100 years	(C) 120 – 125 years	(D) 130 – 135 years		
(15)	In sickle cell anemia code for glutamic acid is replaced by:-					
	(A) Leucine	(B) Histidine	(C) Valine	(D) Proline		
(16)	Universal recipient	blood group is blo	od group.			
	(A) A	(B) B	(C) AB	(D) O		
(17)	An enzyme α – gal is harvested from:-	actosidase that can be us	sed to treat a human lysosome			
	(A) Soyabeans	(B) Tobacco plants	(C) Sugarcane	(D) Corn plants		
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14465 INTERMEDIATE PART-II (12th CLASS)

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(1)	Mongolism is the ot	ther name of:-			
	(A) Klinefelter's Sy	ndrome (B) Turne	er's Syndrom	e (C) Down's Syndr	ome (D) Jacobs
(2)	The full cell cycle in				(-)-11-1-1
	(A) 24 hours	(B) 4.5 hours		(C) 30 minutes	(D) 90 minutes
(3)	The cytoplasmic pr	ocess/fibres which	carry impulse	e towards cell body is	
	(A) Dendron	(B) Axons		(C) Nissl's granules	
(4)	The human life spar	n is judged to be ma	aximum of:-	(-)	(5);;;•••••
	(A) 60 – 70 years			(C) 120 – 125 years	(D) 130 – 135 years
(5)	In sickle cell anemia	0.00			(2) 100 100 your
	(A) Leucine	(B) Histidine		(C) Valine	(D) Proline
(6)	Universal recipient		blood group	A COLUMN TO A COLU	(D) Home
0.48	(A) A	(B) B		(C) AB	(D) O
(7)	An enzyme α – gal is harvested from:-		be used to tre	eat a human lysosome	
	(A) Soyabeans	(B) Tobacco plan	nts	(C) Sugarcane	(D) Corn plants
(8)	The first photosynth reducing CO_2 to:-	netic organisms pro			a source of Hydrogen for
	(A) Sugars	(B) H_2CO_3		(C) RUBP	(D) Malate
(9)	Primary succession	may start in a dry so	oil or rock is	called:-	
	(A) Hydrosere	(B) Xerosere		(C) Desert	(D) Derosere
(10)	Cacti and Euphorbi	a are the desert plan	nts which stor		C7-11101
	(A) Fleshy leaves	(B) Fleshy buds		(C) Fleshy stems	(D) Fleshy roots
(11)	(A) One million O_3 (C) Four millions O_3	molecules (Figure 1) molecules (I) O_3 molecules (I)	B) Three mill	s and destroy as many ions O_3 molecules as O_3 molecules	And the second s
(12)	is not End (A) Bird			(C) Di	14.0 - 14.0
(13)		(B) Amphibian are reabsorbed in:-		(C) Flying insect	(D) Some fishes
(13)				/O. I	Signature in
(14)	(A) Proximal tubule The membrane that			(C) Loop of Henle	(D) Distal tubule
(11)	(A) Primary cell			(C) P 11 1	
(15)		(B) Vascular wal		(C) Pelicle	(D) Tonoplast
(15)	In birds, the sternus			u	Mark Tool Co.
(16)	(A) Keel	(B) Neck		(C) Rib	(D) Clavicle
(16)				spiratory activity calle	
(17)	(A) Biometric	(B) Redox		(C) Climacteric	(D) Photorespiration
(17)	An example of long				
	(A) Tomato	(B) Cabbage		(C) Corn	(D) Soyabean
				. A A A	

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Number:

INTERMEDIATE PART-II (12th CLASS)

	E ALLOWED: 20		OBJECTIVE	MAXIMUM MARKS: 17		
Cutti quest case I Q.No	ing or filling two or in tions as given in objections as given in objections and filling the filling that the filling is a second filling in the filling in the filling is a second filling in the filling in the filling is a second filling in the filling in the filling is a second filling in the filling in the filling is a second filling in the filling in the filling is a second filling in the f	bubble in front of that q more bubbles will result ective type question pap illed. Do not solve ques	uestion number. Use mark t in zero mark in that quest er and leave others blank, tions on this sheet of OBJE	d D. The choice which you ser or pen to fill the bubbles. ion. Attempt as many No credit will be awarded in CTIVE PAPER.		
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	(A) Biometric	(B) Redox	(C) Climacteric	(D) Photorespiration		
(2)	An example of long	-day plants is:-				
	(A) Tomato	(B) Cabbage	(C) Corn	(D) Soyabean		
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	(A) Klinefelter's Sy	ondrome (B) Turner's S	yndrome (C) Down's Syndr	ome (D) Jacobs		
(4)	The full cell cycle in	n yeast cells is completed	l in:-			
	(A) 24 hours	(B) 4.5 hours	(C) 30 minutes	(D) 90 minutes		
(5)	The cytoplasmic pr	ocess/fibres which carry	impulse towards cell body is	called:-		
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(6)	The human life span	is judged to be maximu				
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(7)	In sickle cell anemi	a code for glutamic acid		Act and a series		
	(A) Leucine	(B) Histidine	(C) Valine	(D) Proline		
(8)	Universal recipient	blood group is bloo	d group.			
	(A) A	(B) B	(C) AB	(D) O		
(9)	An enzyme α – gala is harvested from:-	actosidase that can be use	ed to treat a human lysosome	storage disease,		
	(A) Soyabeans	(B) Tobacco plants	(C) Sugarcane	(D) Corn plants		
(10)	The first photosynthereducing CO_2 to:- (A) Sugars		used Hydrogen Sulphide as			
/1.15	3.00	(B) H_2CO_3	(C) RUBP	(D) Malate		
(11)		may start in a dry soil or	rock is called:-			
2.54	(A) Hydrosere	(B) Xerosere	(C) Desert	(D) Derosere		
(12)	Cacti and Euphorbia are the desert plants which store water in their:-					
	(A) Fleshy leaves	(B) Fleshy buds	(C) Fleshy stems	(D) Fleshy roots		
(13)	(A) One million O_3	molecules (B) Thr	olet rays and destroy as many ree millions O_3 molecules	as:-		
(14)	(C) Four millions O	therm.	millions O_3 molecules			
	(A) Bird	(B) Amphibian	(C) Flying insect	(D) Some fishes		
(15)		are reabsorbed in:-				
		(B) Bowman's capsule		(D) Distal tubule		
(16)	The membrane that bounds vacuole is called:-					
	(A) Primary cell	(B) Vascular wall	(C) Pelicle	(D) Tonoplast		
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	(A) Keel	(B) Neck	(C) Rib	(D) Clavicle		

2018 (A) Roll No: INTERMEDIATE PART-II (12th CLASS) BIOLOGY PAPER-II (NEW SCHEME) **GROUP-II** TIME 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 a concise note on Hemodialysis. (i) Briefly describe Urea Cycle. (ii) What is Uremia? Give its treatment. (iii) How does tendon differ from Ligament? (iv) Differentiate between sapwood and heartwood. (v) Write down disadvantages of Exoskeleton. (vi) How do photoperiodism and vernalisation resemble with each other? (vii) Write the functions of sertoli cells. (viii) Compare weather with climate. (ix) Write down soil conditions of grassland ecosystem. (x) (xi) Differentiate between Pollution and Pollutants. (xii) Write any four ways to Conserve Energy. 3. Attempt any eight parts. $8 \times 2 = 16$ (i) What are Effectors? Differentiate between Chemoreceptors and Mechanoreceptors. (ii) What is Epilepsy? Write the name of important test in the study of Epilepsy. (iii) Differentiate between Gene and Allele. (iv) (v) What is Law of Segregation? (vi) Define Epistasis. Enlist three possible ways to get the gene of interest. (vii) What is Gene Therapy? Write names of two methods used for gene therapy. (viii) What is Recombinant DNA? (ix) Differentiate between Population and Community. (x) What are biotic components of an Ecosystem? (xi) Differentiate between Autecology and Synecology. (xii) 4. Attempt any six parts. $6 \times 2 = 12$ Differentiate between Primary Growth and Secondary Growth. (i) Define Growth Correlation. (ii) Differentiate between Heterochromatin and Euchromatin. (iii) (iv) Define Nucleosome. Write two importance of Mitosis. (v) Differentiate between Benign tumour and Malignant tumour. (vi) What is Phosphodiester bond? (vii) (viii) What is Endosymbiont Hypothesis? What are Vestigial organs? Give two examples. (ix) SECTION-II NOTE: - Attempt any three questions. $3 \times 8 = 24$ Write Homeostatic function of Liver. 5.(a) 4 Describe various stages of succession in Xerosere. (b) Write a note on paratonic movements in plants. 6.(a) (b) Write a note on Transcription. What are Plant Hormones? Give the effects of Gibberellins and Ethene. 7.(a) What are Renewable and non-renewable resources? Describe water as a renewable resource. (b) Describe female reproductive system of humans. 8.(a) Describe the mechanism of incomplete dominance with an example. (b) 4 9.(a) Describe the external factors affecting the rate of growth in plants. 4 Describe the Hardy-Weinberg Theorem. 4

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MAXIMUM MARKS: 17

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TIME ALLOWED: 20 Minutes

INTERMEDIATE PART-II (12th CLASS)

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number. Use marker or pen to fill the bubbles.

OBJECTIVE

quest	ions as given in objec BUBBLES are not fill	tive type question pap	It in zero mark in that quest per and leave others blank. stions on this sheet of OBJE	No credit will be awarded in	
(1)	The human abdomir	nal cavity lined by a thi	n epithelium is called:-		
	(A) Ectoderm	(B) Endoderm	(C) Peritoneum	(D) Epidermis	
(2)	In human beings, the	e homeostatic thermost	at is present in a part of the b	rain called as:-	
	(A) Cerebrum	(B) Thalamus	(C) Hypothalamus	(D) cerebellum	
(3)	Rickets is a disease i	n children with bowed	legs and deformed		
	(A) Head	(B) Pelvis	(C) Chest	(D) Arms	
(4)	The folded leaflets of	f sensitive Mimosa reg	ain their turgidity after:-		
	(A) 2 minutes	(B) 5 minutes	(C) 10 minutes	(D) 15 minutes	
(5)	Alpha cells of Pancre	eas secrete:-	, .		
	(A) Insulin	(B) Pancreatic juice	(C) Glucagon	(D) Secretin	
(6)	Corpus luteum secret	es a hormone called:-			
	(A) Progesterone	(B) Oxytocin	(C) Testosterone	(D) Estrogen	
(7)	Cucumber, tomato, g	arden pea, maize, cotto	on are examples of:-		
			(C) Day-neutral plants	(D) Night-neutral plants	
(8)		cells above the blastoc		1,1,1,1	
	(A) Ectoderm	(B) Mesoderm	(C) Endoderm	(D) Blastoderm	
(9)	A sequence of three	nucleotides in mRNA		V-N about the same	
	(A) Cistron	(B) Codon	(C) Anticodon	(D) Template	
(10)	Meiosis II is just like	the:-			
	(A) Amitosis	(B) Regenerations	(C) Mitosis	(D) Replacement	
(11)	The chances of teenage mother having Down's syndrome child is:-				
	(A) One in one hund		(B) One in one thousand		
	(C) One in many tho	usands	(D) One in ten thousands		
(12)	Protanopia is a:-		V. Van Strand Standard		
	(A) Red blindness	(B) Green blindness	(C) Blue blindness	(D) Brown blindness	
(13)	Cystic fibrosis patier		les for trans-membrane carrie	A STATE OF THE STA	
	(A) Sodium ion	(B) Chloride ion	(C) Potassium ion	(D) Calcium ion	
(14)	Acquired characteristics of an individual can not be:-				
	(A) Inherited	(B) Lost	(C) Flourished	(D) Migrated	
(15)	Lichen is a symbiotic	association between a		()	
	(A) Gymnosperm	(B) Angiosperm	(C) An alga	(D) Pteridophyta	
(16)	Limnetic phytoplank	ton include the:-		127	
	(A) Bacteria	(B) Cyanobacteria	(C) Fishes	(D) Mosses	
(17)	A chemical which kil	ls the weeds in a crop	The second second	N. W. S. A. S. A. S. A. S.	
	(A) Insecticides	(B) Pesticides	(C) Herbicides	(D) Germicides	
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MAXIMUM MARKS: 17

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Number: 4464

TIME ALLOWED: 20 Minutes

INTERMEDIATE PART-II (12th CLASS)

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number. Use marker or pen to fill the bubbles.

OBJECTIVE

questi	ons as given in object UBBLES are not fille	ive type question pap	in zero mark in that questi er and leave others blank. I tions on this sheet of OBJE	No credit will be awarded
(1)	Protanopia is a:-			
	(A) Red blindness	(B) Green blindness	(C) Blue blindness	(D) Brown blindness
(2)	Cystic fibrosis patient	s lack a gene that code	es for trans-membrane carrier	of the:-
	(A) Sodium ion	(B) Chloride ion	(C) Potassium ion	(D) Calcium ion
(3)	Acquired characterist	tics of an individual ca	n not be:-	
	(A) Inherited	(B) Lost	(C) Flourished	(D) Migrated
(4)	Lichen is a symbiotic	association between a	fungus and:-	
	(A) Gymnosperm	(B) Angiosperm	(C) An alga	(D) Pteridophyta
(5)	Limnetic phytoplankt	on include the:-		
	(A) Bacteria	(B) Cyanobacteria	(C) Fishes	(D) Mosses
(6)	A chemical which kil	ls the weeds in a crop	is known as:-	
	(A) Insecticides	(B) Pesticides	(C) Herbicides	(D) Germicides
(7)	The human abdomin	al cavity lined by a thi	n epithelium is called:-	
	(A) Ectoderm	(B) Endoderm	(C) Peritoneum	(D) Epidermis
(8)	In human beings, the	homeostatic thermosta	nt is present in a part of the br	ain called as:-
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(9)	Rickets is a disease in	n children with bowed	legs and deformed	
	(A) Head	(B) Pelvis	(C) Chest	(D) Arms
(10)	The folded leaflets of	f sensitive Mimosa reg	ain their turgidity after:-	
	(A) 2 minutes	(B) 5 minutes	(C) 10 minutes	(D) 15 minutes
(11)	Alpha cells of Pancre	eas secrete:-		
	(A) Insulin	(B) Pancreatic juice	(C) Glucagon	(D) Secretin
(12)	Corpus luteum secret	tes a hormone called:-		
	(A) Progesterone	(B) Oxytocin	(C) Testosterone	(D) Estrogen
(13)	Cucumber, tomato, g	arden pea, maize, cotte	on are examples of:-	
	(A) Short-day plants	(B) Long-day plants	(C) Day-neutral plants	(D) Night-neutral plants
(14)	The discoidal cap of	cells above the blastoc	coele is called:-	
	(A) Ectoderm	(B) Mesoderm	(C) Endoderm	(D) Blastoderm
(15)	A sequence of three	nucleotides in mRNA	is called:-	
	(A) Cistron	(B) Codon	(C) Anticodon	(D) Template
(16)	Meiosis II is just like	e the:-		
	(A) Amitosis	(B) Regenerations	(C) Mitosis	(D) Replacement
(17)	The chances of teen	age mother having Do	wn's syndrome child is:-	
	(A) One in one hund	lred	(B) One in one thousand	
	(C) One in many tho	ousands	(D) One in ten thousands	
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MAXIMUM MARKS: 17

Number:

4466

TIME ALLOWED: 20 Minutes

INTERMEDIATE PART-II (12th CLASS)

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number. Use marker or pen to fill the bubbles.

Cutting or filling two or more bubbles will result in zero mark in that question. Attempt as many

OBJECTIVE

7	BUBBLES are not fil		per and leave others blank. stions on this sheet of OBJ	No credit will be awarded in ECTIVE PAPER.	
(1)	Alpha cells of Panc	reas secrete:-			
	(A) Insulin	(B) Pancreatic juice	(C) Glucagon	(D) Secretin	
(2)	Corpus luteum secre	etes a hormone called:-			
	(A) Progesterone	(B) Oxytocin	(C) Testosterone	(D) Estrogen	
(3)	Cucumber, tomato,	garden pea, maize, cotto	on are examples of:-		
	(A) Short-day plants	s (B) Long-day plants	(C) Day-neutral plants	(D) Night-neutral plants	
(4)	The discoidal cap of	cells above the blastoc	oele is called:-		
	(A) Ectoderm	(B) Mesoderm	(C) Endoderm	(D) Blastoderm	
(5)	A sequence of three	nucleotides in mRNA	is called:-		
	(A) Cistron	(B) Codon	(C) Anticodon	(D) Template	
(6)	Meiosis II is just lik	e the:-			
	(A) Amitosis	(B) Regenerations	(C) Mitosis	(D) Replacement	
(7)	The chances of teena	ge mother having Dow	n's syndrome child is:-		
	(A) One in one hund	dred	(B) One in one thousand		
	(C) One in many the	ousands	(D) One in ten thousands		
(8)	Protanopia is a:-				
	(A) Red blindness	(B) Green blindness	(C) Blue blindness	(D) Brown blindness	
(9)	Cystic fibrosis patie	nts lack a gene that cod	es for trans-membrane carrie	er of the:-	
	(A) Sodium ion	(B) Chloride ion	(C) Potassium ion	(D) Calcium ion	
(10)	Acquired characteri	istics of an individual ca	an not be:-		
	(A) Inherited	(B) Lost	(C) Flourished	(D) Migrated	
(11)	Lichen is a symbioti	ic association between a	fungus and:-		
	(A) Gymnosperm	(B) Angiosperm	(C) An alga	(D) Pteridophyta	
(12)	Limnetic phytoplan	kton include the:-			
	(A) Bacteria	(B) Cyanobacteria	(C) Fishes	(D) Mosses	
(13)	A chemical which k	ills the weeds in a crop	is known as:-		
	(A) Insecticides	(B) Pesticides	(C) Herbicides	(D) Germicides	
(14)	The human abdomin	nal cavity lined by a thin	n epithelium is called:-		
	(A) Ectoderm	(B) Endoderm	(C) Peritoneum	(D) Epidermis	
(15)	In human beings, t	he homeostatic thermos	stat is present in a part of the	brain called as:-	
	(A) Cerebrum	(B) Thalamus	(C) Hypothalamus	(D) cerebellum	
(16)	Rickets is a disease	in children with bowed	legs and deformed		
	(A) Head	(B) Pelvis	(C) Chest	(D) Arms	
(17)	The folded leaflets of sensitive Mimosa regain their turgidity after:-				
	(A) 2 minutes	(B) 5 minutes	(C) 10 minutes	(D) 15 minutes	
			28(Obi)(公公公)-2018	(A)-7000 (MULTAN)	

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Paper	Code

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MAXIMUM MARKS: 17

Number:

4468

TIME ALLOWED: 20 Minutes

INTERMEDIATE PART-II (12th CLASS)

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number. Use marker or pen to fill the bubbles.

OBJECTIVE

BIOLOGY PAPER-II (NEW SCHEME) GROUP-II

quest	ions as given in obje BUBBLES are not fi	ctive type question par	t in zero mark in that ques per and leave others blank. stions on this sheet of OBJI	No credit will be awarded in		
(1)	Acquired character	Acquired characteristics of an individual can not be:-				
	(A) Inherited	(B) Lost	(C) Flourished	(D) Migrated		
(2)	Lichen is a symbiot	ic association between a	fungus and:-			
	(A) Gymnosperm	(B) Angiosperm	(C) An alga	(D) Pteridophyta		
(3)	Limnetic phytoplankton include the:-					
	(A) Bacteria	(B) Cyanobacteria	(C) Fishes	(D) Mosses		
(4)	A chemical which k	tills the weeds in a crop	is known as:-			
	(A) Insecticides	(B) Pesticides	(C) Herbicides	(D) Germicides		
(5)	The human abdom	inal cavity lined by a thi	n epithelium is called:-			
	(A) Ectoderm	(B) Endoderm	(C) Peritoneum	(D) Epidermis		
(6)	In human beings, th	e homeostatic thermosta	at is present in a part of the b	rain called as:-		
	(A) Cerebrum	(B) Thalamus	(C) Hypothalamus	(D) cerebellum		
(7)	Rickets is a disease	in children with bowed	legs and deformed			
	(A) Head	(B) Pelvis	(C) Chest	(D) Arms		
(8)	The folded leaflets	The folded leaflets of sensitive Mimosa regain their turgidity after:-				
	(A) 2 minutes	(B) 5 minutes	(C) 10 minutes	(D) 15 minutes		
(9)	Alpha cells of Panc	reas secrete:-				
	(A) Insulin	(B) Pancreatic juice	(C) Glucagon	(D) Secretin		
(10)	Corpus luteum secr	etes a hormone called:-				
	(A) Progesterone	(B) Oxytocin	(C) Testosterone	(D) Estrogen		
(11)	Cucumber, tomato, garden pea, maize, cotton are examples of:-					
	(A) Short-day plant	s (B) Long-day plants	(C) Day-neutral plants	(D) Night-neutral plants		
(12)	The discoidal cap of	of cells above the blastoc	coele is called:-			
	(A) Ectoderm	(B) Mesoderm	(C) Endoderm	(D) Blastoderm		
(13)	A sequence of three	e nucleotides in mRNA	is called:-			
	(A) Cistron	(B) Codon	(C) Anticodon	(D) Template		
(14)	Meiosis II is just lik	te the:-				
	(A) Amitosis	(B) Regenerations	(C) Mitosis	(D) Replacement		
(15)	The chances of teen	age mother having Dow	n's syndrome child is:-			
	(A) One in one hun	dred	(B) One in one thousand			
	(C) One in many th	ousands	(D) One in ten thousands			
(16)	Protanopia is a:-					
	(A) Red blindness	(B) Green blindness	(C) Blue blindness	(D) Brown blindness		
(17)	Cystic fibrosis pati-	ents lack a gene that cod	les for trans-membrane carrie	er of the:-		
	(A) Sodium ion	(B) Chloride ion	(C) Potassium ion	(D) Calcium ion		

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BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN OBJECTIVE KEY FOR INTERMEDIATE ANNUAL/SUPPLY EXAMINATION, 2018

Name of S	ubiect:	B101088	Session:	2016-2018
Group :		(New Scheme)	Group: 2nd	(New Scheme)

Q.	Paper Code	Paper Code	Paper Code	Paper Code
Nos	4461	4463	4465	4467
1	B	A	C	C
2	A	BND	D	B
3	D	C	A	C
4	A	A	c	D
5	c	B	c	A
6	B	A	c	C
7	C	D	В	C
8	D	A	A	C
9	A	C	BonD	B
10	C	В	C	A
11	c	C	A	BAD
12	C	D	B	BAD
13	B	A	A	A
14	A	C	D	B
15	BAD	C	A	Α
16	C	C	C	2
17	A	В	В	A
18			J = 1	
19				
20	V			

Q.	Paper Code	Paper Code	Paper Code	Paper Code
Nos	4462	4464	4466	4468
1	C	A	C	Α
2	C	B	A	C
3	3	A	C	B
4	C	C	D	C
5	C	В	B	C
6	A	C	C	C
7	C	C	C	С В С
8	2	C	A	C
9	B	B	3	C
10	c	C	B	A
11	C	C	c	C
12	A	A	3	D
13	B	c	C	B C
14	A	D	C	C
15	C	B	C C B	C
16	с В	C	B	C
17	c	C	_	B.
18				
19				
20				

repa	ared & Checked By:		Dated: 17/05/2018			
S.#	Name	Designation	Institution	Mobile No	Signature	
1	M. Zafan Abdullat	Associate	G.P.G. Busewala	0300-	11 Tapri ()	
2	Tanvii Aslam	AP	Civil Lines College	3020	Ties .	
3	M. Khalid Baloch	ALLH Pre	GOVT-EMERSON COINESS	033361033	Quark	
4	Tarie Mahmood	Assistant pro	a det millet	030063614		
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Re-C	المحتم كى كونى غلطى شە ہے۔	ممل طور پرتسلی کر لی ہے۔	ی) بمعروضی "Key" اور ہدایات کے حوالہ ہے	ر برچه (انثائيه +معروم	بم نے درج بالاسوال	
1	Dr. Nazir-Almel	A.P.	Good College Civil		Some	
2	Dr. Muhammad Riaz	A.P	Gout Millat Degac colose, Martan	7358740	a Mr	

Roll No:

INTERMEDIATE PART-II (12th CLASS)

			TATEL TE (TY
BIOLOGY	PAPER-II	(OLD SCHEME)	GROUP-I
mrs		,	OLLO OL I

TIME ALLOWED: 3.10 Hours

SUBJECTIVE

MAXIMUM MARKS: 83

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.	SECTION I
W W W		

 $8 \times 2 = 16$

- Differentiate between Ureotelic and Uricotelic animals. (i)
- How marine mammals regulate their body temperature in cold water? (ii)
- Give structural formulae of urea and uric acid. (iii)
- Differentiate between Hinge joints and ball and socket joints. (iv)
- How heartwood differ from sapwood? (v)
- What are P660 and P730 pigments? How are these interconverted? (vi)
- Define Placenta. Give its functions. (vii)
- (viii) Define Antagonism. Give an example.
- Enlist four adaptations of animals of desert ecosystem. (ix)
- Differentiate between Prairies and Savana. (x)
- Enlist factors which are responsible for greenhouse effect. (xi)
- (xii) Name fossil fuels. Why these are called so?

3. Attempt any Eight parts.

 $8 \times 2 = 16$

- Write any two functions of Hypothalamus. (i)
- (ii) Write symptoms and reasons of Myxoedema.
- Differentiate between Diurnal and Circannual biorythms. (iii)
- What is Punnet Square? (iv)
- Define Nullo gamete. Give its example. (v)
- What is SRY? Give its role. (vi)
- Define PCR. (vii)
- What things are required to produce recombinant DNA? (viii)
- Differentiate between Luciferin and Luciferase. (ix)
- How are moderate grazing useful and over-grazing damaging? (x)
- Differentiate between primary and secondary succession (xi)
- (xii) Define Niche.

Attempt any Six parts.

 $6 \times 2 = 12$

- Define Innate behaviour. Name the types of innate behaviour. (i)
 - Name the Hormone secreted from Parathyroid gland. Write its function. (ii)
 - Define Acro centric and Telo centric chromosome. (iii)
 - Define DNA Polymerase and define RNA Polymerase. (iv)
 - (v) Define Alkaptonuria.
 - (vi) Define Benign Tumor.
 - Define Apoptosis. (vii)
 - Differentiate between Homologous organs and Analogous organs. (viii)
- Write any two components of preservation plan for endangered species. (ix)

SECTION-II

NOTE: - Attempt any three questions. $8 \times 3 = 24$ Describe the major homeostatic functions of liver. 5.(a) 4 (b) Discuss the role of Restriction endonucleases. 4 Describe major functions of Skeletal System. 6.(a)4 Describe the physical and chemical structure of Chromosome. (b) 4 Discuss the different hormones secreted by the anterior lob of pituitary gland. 7.(a)4 Define afforestation. Discuss the importance of forests. (b) 4 Discuss human female reproductive cycle. 8.(a) 4 What is dominance? Name its types and explain only one of them. (b) 9.(a) Describe the role of nucleus in Development. 4 State the Hardy - Weinberg theorem. Discuss any two factors affecting gene frequency. (b)

SECTION-III (PRACTICAL)

10	SECTION-III (PRACTICAL)	
10.	Attempt any three parts.	$5 \times 3 = 15$
(A)	Draw and label female urinogenital system of frog.	3 ×3 - 13
(B)	Sketch and label the forelimb of frog.	5
(C)	Write down the material a	5
	Write down the material & procedure of water content in soil	5
(D)	Write about material, procedure and result of study of phototropism.	5
(E)	Write short answers:-	2
	(*) Will	5
	Control of the contro	
	(iii) What is Blastulation? (iv) What are Hydrophytes?	

(iv) What are Hydrophytes? (v) Write two characters of cardiac muscles.

Paper Code	2018 (A)	D. HAT
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TIME ALLOWED: 20 Minutes

8461 INTERMEDIATE PART-II (12th CLASS)

OBJECTIVE

	1E ALLOWED: 20 Minu	ODOLIC		XIMUM MARKS: 17
Cuti as g	te: You have four choices for k is correct, fill that bubble ting or filling two or more be iven in objective type question BBLES are not filled. Do not o.1	in front of that question n ubbles will result in zero n on paper and leave others	umber. Use marker or p nark in that question. As blank. No credit will be	pen to fill the bubbles. ttempt as many questions
(1)	Earthworm is an ideal exa	mple of another type of tub	ular excretory system call	ed as:-
	(A) Protonephridium	(B) Metanephridium	(C) Nephron	(D) Kidneys
(2)	The animals, which produce environment are called:-	e metabolic heat at low lev	el and also exchange quic	kly with
	(A) Endotherms	(B) Ectotherms	(C) Heterotherms	(D) Exotherms
(3)	In synovial joints, a layer of	of connective tissue that sur	round it is called:-	
	(A) Fibrous capsule	(B) Ligament	(C) Muscle	(D) Cartilage
(4)	Epinasty, Hyponasty and I	Nutation are the types of:-		•
	(A) Growth movements	(B) Nastic movements	(C) Tropic movements	(D) Turgor movements
(5)	The total gestation period i	n human being is usually at		. ,
	(A) 260 days	(B) 280 days	(C) 290 days	(D) 180 days
(6)	During pregnancy, the hor	mones stimulate mammary		
	for lactation are:-	(A) LTH (B) LH		
(7)	The cancer cells, divide ray	oidly and invade surroundir		
	(A) Epistasis	(B) Metastasis	(C) Meiosis	(D) Movement of cells
(8)	In meiosis, crossing over o	ccurs in:-		(2) movement of cens
	(A) Leptotene	(B) Zygotene	(C) Pachytene	(D) Diplotene
(9)	The neuron net of Hydra la	cks;-		(=) Diplotone
	(A) Neurons	(B) Dendrites (C) Connections (D) Di	rection of impulse flow
(10)	The negative physiological			- mpaise now
	(A) Degeneration	(B) Abnormalities	(C) Aging	(D) Regeneration
(11)	In Bacteria the newly synthe	esized mRNA is released in	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(2) Regeneration
	(A) Nucleus	(B) cytoplasm	(C) Mitochondria	(D) Vacuole
(12)	for the first time fou	nd white eye mutant in Dro		(2) radate
	(A) Morgan	(B) Correns	(C) Mendel	(D) Bridges
13)	Recombinant DNA technol	ogy is used to produce bact		
	(A) Totipotents	(B) Biobuffer	(C) Bioreactors	(D) Biodegradation
14)	substance is used as so	ource of Hydrogen for reduc		
	(A) H ₂ O	(B) H_2S	(C) H_2O_2	(D) H_2SO_4
15)	The study of the relationship			(B) 11 ₂ BO ₄
	****	(B) Ecology	(C) Biology	(D) March 1
16)	The soil or terrestrial ecosys			(D) Mycology
	(A) Supporting tissues	(B) Retention of food		(D) M
17)	are called environme		(C) Temperature	(D) Nutrients
	(A) Animals	(B) Rains	(C) Trees	(D Rivers
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Paper Code

Roll No.__

Number:

8463

INTERMEDIATE PART-II (12th CLASS)

2018 (A)

	ME ALLOWED: 20 Mi		OBJEC'	TIVE	MAXIMUM MARKS: 17		
Cu as g BU	and the control of the that bubl	bubbles will resu	question nu lt in zero m ave others b	mber. Use marke ark in that questi	D. The choice which you er or pen to fill the bubbles. on. Attempt as many question will be awarded in case /E PAPER.		
(1)	The neuron net of Hydr	a lacks:-					
	(A) Neurons	(B) Dendrites		7) Connections	(D) D)		
(2)	The negative physiologi			C) Connections	(D) Direction of impulse flow		
	(A) Degeneration	(B) Abnorma					
(3)	In Bacteria the newly sy			(C) Aging	(D) Regeneration		
	(A) Nucleus	(B) cytoplasm					
(4)	for the first time	The state of the s		(C) Mitochon	dria (D) Vacuole		
	(A) Morgan	(B) Correns	mant in Dros				
(5)				(C) Mendel	(D) Bridges		
/	Recombinant DNA tech (A) Totipotents						
(6)		(B) Biobuffer		(C) Bioreactor			
(0)	substance is used as source of Hydrogen for reducing CO_2 to sugar by first photosynthetic organism						
32	(A) H_2O	(B) H_2S		(C) H_2O_2	(D) H_2SO_4		
(7)	The study of the relations	ships of organisms	to their envir	ronment is called:-			
	(A) Environmental science			(C) Biology	(D) Mycology		
(8)	The soil or terrestrial eco	system have some a	adaptations f	for animals and pla	ints:-		
	(A) Supporting tissues	(B) Retention		(C) Temperatu			
(9)	are called environ	mental buffers.			(=)1.441101115		
	(A) Animals	(B) Rains		(C) Trees	(D Rivers		
(10)	Earthworm is an ideal example of another type of tubular excretory system called as:-						
	(A) Protonephridium	(B) Metanephr		(C) Nephron	(D) Kidneys		
(11)	The animals, which produ environment are called:-			and also exchange	quickly with		
	(A) Endotherms	(B) Ectotherms		(C) Heterothern	ns (D) Exotherms		
(12)	In synovial joints, a layer	of connective tissue	e that surrou	nd it is called:-	(D) Exomethis		
	(A) Fibrous capsule	(B) Ligament		(C) Muscle	(D) Cartilage		
(13)	Epinasty, Hyponasty and	Nutation are the ty	pes of:-	(C) Masele	(D) Carmage		
	(A) Growth movements	(B) Nastic mov		C) Tropic moveme	ente (D) Turgor mana		
(14)	The total gestation period			t:-	ents (D) Turgor movements		
	(A) 260 days	(B) 280 days	,	(C) 290 days	(D) 100 1		
(15)	During pregnancy, the hor		ammary ola	nds development:	(D) 180 days		
	for lactation are:-	(A) LTH	(B) LH				
(16)	The cancer cells, divide ra	and the state of t		(C) Placental lac	etogen (D) Both A, C		
	(A) Epistasis	(B) Metastasis	irrounding c				
(17)	In meiosis, crossing over			(C) Meiosis	(D) Movement of cells		
	(A) Leptotene			(C) D			
	To the state of th	(B) Zygotene		(C) Pachytene	(D) Diplotene		
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TIME ALLOWED: 20 Minutes

2018 (A)

Roll No.____

Number: 0403

INTERMEDIATE PART-II (12th CLASS)

Cut as g	te: You have four choices for hk is correct, fill that bubble ting or filling two or more be given in objective type question BBLES are not filled. Do not lo.1	or each objective type question in front of that question ubbles will result in zero on paper and leave other	number. Use marker or mark in that question.	r pen to fill the bubbles. Attempt as many questions				
(1)	The cancer cells, divide ra	pidly and invade surround	ding cells, this spread of to	mor cells is called:				
	(A) Epistasis	(B) Metastasis	(C) Meiosis	(D) Movement of cells				
(2)	In meiosis, crossing over		(=) 1.1010010	(D) Movement of cens				
	(A) Leptotene	(B) Zygotene	(C) Pachytene	(D) Diplotene				
(3)	The neuron net of Hydra l		(°) i mont tone	(D) Diplotelle				
	(A) Neurons	(B) Dendrites	(C) Connections (D)	Direction of impulse flow				
(4)	The negative physiological	changes in our body are	And the second second second second	breedon of impulse now				
	(A) Degeneration	(B) Abnormalities	(C) Aging	(D) Regeneration				
(5)	In Bacteria the newly synth			(b) Regeneration				
	(A) Nucleus	(B) cytoplasm	(C) Mitochondria	(D) Vacuole				
(6)	(b) vacuote							
	(A) Morgan	(B) Correns	(C) Mendel	(D) Bridges				
(7)	Recombinant DNA techno							
	(A) Totipotents	(B) Biobuffer	(C) Bioreactors	(D) Biodegradation				
(8)	substance is used as source of Hydrogen for reducing CO_2 to sugar by first photosynthetic organisms.							
	(A) H ₂ O	(B) H ₂ S	(C) H_2O_2					
(9)	The study of the relationship		1000 10	(D) H_2SO_4				
	(A) Environmental science							
(10)	The soil or terrestrial ecosys		(C) Biology	(D) Mycology				
1000	(A) Supporting tissues	(B) Retention of food						
(11)	are called environm		(C) Temperature	(D) Nutrients				
	(A) Animals	(B) Rains	(C) Tropp	(D. D.)				
(12)	Earthworm is an ideal exam		(C) Trees	(D Rivers				
	(A) Protonephridium	(B) Metanephridium						
(13)	The animals, which produce environment are called:-		(C) Nephron rel and also exchange quic	(D) Kidneys kly with				
	(A) Endotherms	(B) Ectotherms	(C) Heterotherms	(D) Exotherms				
(14)	In synovial joints, a layer of	connective tissue that sur		(D) Exotherms				
	(A) Fibrous capsule	(B) Ligament	(C) Muscle	(D) Cartilage				
15)	Epinasty, Hyponasty and Nu	itation are the types of:-		(D) carriage				
	(A) Growth movements	(B) Nastic movements	(C) Tropic movements	(D) Turgor movements				
16)	The total gestation period in	human being is usually at		(D) Targor movements				
	(A) 260 days	(B) 280 days	(C) 290 days	(D) 180 days				
17)	During pregnancy, the horm	ones stimulate mammary		eparation				
	0 1	(A) LTH (B) LH						
			公公公(A)-400					

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Number:

8467

2018 (A)

Roll No.	
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INTERMEDIATE PART-II (12th CLASS) BIOLOGY PAPER-II (OLD SCHEME) GROUP-I

	ME ALLOWED: 20 Mini		BJECT	IVE M.	AXIMUM MARKS: 17
Cur as g BU	te: You have four choices fact is correct, fill that bubble ting or filling two or more be given in objective type quest BBLES are not filled. Do not 10.1	on front of that que pubbles will result in ion paper and leave	stion num zero man others blo	n as A, B, C and D. ber. Use marker o k in that question.	The choice which you r pen to fill the bubbles. Attempt as many questions
(1)	The total gestation period	in human being is us	ually abou	t:-	
	(A) 260 days	(B) 280 days		(C) 290 days	(D) 180 days
(2)	During pregnancy, the ho	rmones stimulate ma	mmary gla	ands development in	
	for lactation are:-	3.7.0 CHEST			ogen (D) Both A, C
(3)	The cancer cells, divide ra	apidly and invade sur	rounding o	cells, this spread of t	umor cells is called:-
	(A) Epistasis	(B) Metastasis		(C) Meiosis	(D) Movement of cells
(4)	In meiosis, crossing over	occurs in:-			
	(A) Leptotene	(B) Zygotene		(C) Pachytene	(D) Diplotene
(5)	The neuron net of Hydra	lacks:-			8. X. 2. X. 2. VIII.
	(A) Neurons	(B) Dendrites	(C)	Connections (D)	Direction of impulse flow
(6)	The negative physiologica	l changes in our body	are called	:-	
	(A) Degeneration	(B) Abnormalities	S	(C) Aging	(D) Regeneration
(7)	In Bacteria the newly synth	hesized mRNA is rele	eased in:-		(a) engineering
	(A) Nucleus	(B) cytoplasm		(C) Mitochondria	(D) Vacuole
(8)	for the first time fo	und white eye mutant	in Drosop		(-)
	(A) Morgan	(B) Correns		(C) Mendel	(D) Bridges
(9)	Recombinant DNA techno	ology is used to produ	ce bacteria		arge vats called:-
	(A) Totipotents	(B) Biobuffer		(C) Bioreactors	(D) Biodegradation
(10)	substance is used as s	ource of Hydrogen fo	or reducing		et photosynthetic organisms.
	(A) H_2O	(B) H,S		(C) H_2O_2	(D) H_2SO_4
(11)	The study of the relationship		eir enviro		(b) $11_2 SO_4$
	(A) Environmental science		ch chvirol	(C) Biology	(D) M
(12)	The soil or terrestrial ecosy		tations for		(D) Mycology
	(A) Supporting tissues	(B) Retention of fo		(C) Temperature	
(13)	are called environm		, ou	(c) reinperature	(D) Nutrients
	(A) Animals	(B) Rains		(C) Trees	(D.Bi
(14)	Earthworm is an ideal exam		of tubular e		(D Rivers
	(A) Protonephridium	(B) Metanephridiu		(C) Nephron	
(15)	The animals, which produce environment are called:-				(D) Kidneys kly with
	(A) Endotherms	(B) Ectotherms		(C) Heterotherms	(D) Exotherms
(16)	In synovial joints, a layer of	AND THE PROPERTY OF THE PARTY O	it surround		(b) Exomethis
	(A) Fibrous capsule	(B) Ligament	- ACET (1000)	(C) Muscle	(D) Cartilage
(17)	Epinasty, Hyponasty and N	utation are the types	of:-	. ,	(D) Carmage
	(A) Growth movements			Tropic movements	(D) Turgor movements

27(Obj)(公公公公)-2018(A)-400 (MULTAN)

Roll No:

INTERMEDIATE PART-II (12th CLASS)

						•
BIOLOGY	PAPER-II	(OLD	SCHEME)	GROUP-	II	

TIME ALLOWED: 3.10 Hours

SUBJECTIVE

MAXIMUM MARKS: 83

 $8 \times 2 = 16$

 $6 \times 2 = 12$

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

SECT	ION-I

2.		Attempt any Eight parts.	$8 \times 2 = 16$
	(i)	What are Hydrophytes? What are their important adaptations?	0 × 2 - 10
	(ii)	Differentiate between Ureotelic and Uricotelic animals.	
	(iii)	What is Uremia? Give its permanent treatment.	
	(iv)	Define Tactic Movements. Give its one type.	

- (v) Differentiate between Hyaline Cartilage and Fibro Cartilage.(vi) Name unpaired bones of cranium.
- (vii) Define Climacteric.
- (viii) What is Apomixis?
- (ix) Define Hydrospheric Ecosystem.
- (x) Differentiate between Coniferous Alpine and Boreal ecosystem.
- (xi) Give the importance of Ozone layer.
- (xii) What is Tidal Power?
- 3. Attempt any Eight parts.

 (i) Write any two roles of Auxins.
 - (ii) Define feedback mechanism. Give one example also.
 - (iii) Write down the role of Islets of Langerhans.
 - (iv) Define the Jumping genes.
 - (v) What is the purpose of test cross? Give an example.
 - (vi) Differentiate between codominance and incomplete dominance.
 - (vii) Give a brief account on gene sequencing.
 - (viii) Define Recombinant DNA Technology. Give its two roles.
 - (ix) Define Tissue Culture.
 - (x) What is the difference between Population and Community?
 - (xi) Define Autecology and Synecology.
 - (xii) Define Symbiosis. Give its example.

4. Attempt any Six parts.

(i) What is Intercalary Meristems?

- (ii) What is the role of Gray Crescent in development?
- (iii) Define semi-conservative and conservative mode of DNA replication.
- (iv) What is Transformation?

NOTE: - Attempt any three questions.

10.

- (v) What are Okazaki fragment of DNA?
- (vi) Write changes in Anaphase of Mitosis.
- (vii) What is Zygotene stage of Meiosis?
- (viii) What is Hydrothermal vent Hypothesis?
- (ix) What are Fossils? Where are they found?

SECTION-II

51-1	W. A. d.	0 × 3 - 24
5.(a)	Write the adaptations in plants to face high and low temperature.	4
(b)	What is a genomic library? How would you locate gene of interest?	4
6.(a)	Discuss the structure of skeletal muscle.	1
(b)	Define genetic code. Give its important characteristics.	4
7.(a)	Write note on any two Nervous disorders in human.	4
(b)	Give importance of forests in an area.	1
8.(a)	Discuss the role of Phytochrome in flowering.	4
(b)	Describe genetics of colour – blindness.	1
9.(a)	Write a note on Phenomenon of Apical dominance.	7
(b)	Describe comparative anatomy of a sill and the comparative anatomy of the c	4
(0)	Describe comparative anatomy as an evidence of Evolution.	4

SECTION-III (PRACTICAL)

	$5 \times 3 = 15$
Sketch and label of male urinogenital system of frog.	5
Draw and label fore limb of frog	2
	5
	5
Write procedure to determine water contents in soil.	5
Write short answers of the following quesitons:	5
	Sketch and label of male urinogenital system of frog. Draw and label fore limb of frog. Write procedure to study muscle twitch. Write procedure to determine water contents in soil. Write short answers of the following quesitons:-

- (i) What is Cloaca?
- (ii) Name different types of muscle.
- (iii) Define food web. (iv) What is humus?
- (v) What is primitive streak?

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2018 (A)

Roll No.

MAXIMUM MARKS: 17

Number:

TIME ALLOWED: 20 Minutes

INTERMEDIATE PART-II (12th CLASS)

Note: You have four choices for each objective type question as A, B, C and D. The choice which you

OBJECTIVE

que	ting or filling two or more stions as given in objective BUBBLES are not filled.	e in front of that questi bubbles will result in zo type question paper an	ero mark in that question	or pen to fill the bubbles. Attempt as many
(1)	is Heterotherm.			
	(A) Hummingbird	(B) Fish	(C) Flying insect	(D) Bird
(2)	The excretory product th	at requires minimum wa	ter for its elimination comp	
	(A) Urea	(B) Uric acid	(C) Ammonia	(D) Creatinine
(3)	The movement shown by	the sperm of liver - wo	rts towards archegonia is:-	
	(A) Phototactic	(B) Chemotactic	(C) Haptonastic	(D) Thermonastic
(4)	The vertebral column of	human consist of:-	3944 4 4 7 8 4 7 7 7 7 7 7 7 7 7	(D) The mondate
	(A) 23 vertebrae	(B) 30 vertebrae	(C) 33 vertebrae	(D) 35 vertebrae
(5)	Pairing of an irrelevant st	imulus with a natural pri	mary stimulus that elicits a	
(6)	response involves:- (A	A) Conditioning (B) Op		abituation (D) Imprinting
	(A) Ethene	(B) Cytokinins	(C) Abscisic acid	(D) Gibberellins
(7)	A reproductive cycle four	nd in all female mammal	Is except human being is:-	*L& 38. 29. 29. 29.
	(A) Oestrous cycle	(B) Menstrual cycle	(C) Ovarian cycle	(D) Uterine cycle
(8)	Neurula is the stage in wh	nich embryo has:-		AN TO COLUMN SECTION
	(A) Blastocoele	(B) Neurocoel	(C) The germ layer	(D) Archenteron
(9)	The DNA duplex is coiled	d around a core of eight	histone proteins forming a	complex known as a:-
	(A) Nucleosome	(B) Nucleotide	(C) Nucleoside	
(10)	Individuals have additiona	l sex chromosome show	'S:-	
	(A) Down's Syndrome	(B) Klinefelter's Syr	ndrome (C) Turner's Syn	drome (D) Edward
(11)	Bivalent or tetrad formation			
	(A) Leptotene	(B) Zygotene	(C) Pachytene	(D) Diplotene
12)	is the risk of a cold	our blind child in a famil	y, when father is colour bl	ind but mother is normal.
	(A) Zero %	(B) 25 %	(C) 50 %	(D) 100 %
13)	pSc101 plasmid has antibi			
	(A) Tetracycline + ampicil	lin (B) Tetracycline	(C) Macrolides	(D) Erythromycin
14)	Endosymbiont Hypothesis	was first proposed by:-		
	(A) Linnaeus	(B) Lamarck	(C) Lynn Margulis	(D) Cuvier
15)	The role a species plays in	a community including	behaviour and influence is	called:-
	(A) Niche	(B) Habitat	(C) Environment	(D) Ecosystem
16)		eased in area by human	activities.	
	(A) Savana	(B) Grassland	(C) Desert	(D) Coniferous
17)	In pure form the colour of (Ozone is:-		
	(A) Bluish	(B) Reddish	(C) Pinkish	(D) Whitish
			28(Obj)(\$\frac{1}{2}\$)-2018(A)- \frac{1}{2}	のb (MULTAN)

Roll No.

MAXIMUM MARKS: 17

Number:

8464

TIME ALLOWED: 20 Minutes

INTERMEDIATE PART-II (12th CLASS)

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number. Use marker or pen to fill the bubbles.

OBJECTIVE

que	ting or filling two or more stions as given in objective BUBBLES are not filled. Io.1	bubbles will result in z	ero mark in that question	andit will be and 1 1
(1)	pSc101 plasmid has anti	biotic resistance gene fo	r:-	
	(A) Tetracycline + ampio	cillin (B) Tetracycline	(C) Macrolides	(D) Erythromycin
(2)	Endosymbiont Hypothes	is was first proposed by:	2	V 2 - 2 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -
	(A) Linnaeus	(B) Lamarck	(C) Lynn Margulis	(D) Cuvier
(3)	The role a species plays i	n a community including	g behaviour and influence i	
	(A) Niche	(B) Habitat	(C) Environment	(D) Ecosystem
(4)	biome has been in	creased in area by human		(=) ===================================
	(A) Savana	(B) Grassland	(C) Desert	(D) Coniferous
(5)	In pure form the colour o	f Ozone is:-	304	(D) connerous
	(A) Bluish	(B) Reddish	(C) Pinkish	(D) Whitish
(6)	is Heterotherm.			(D) William
	(A) Hummingbird	(B) Fish	(C) Flying insect	(D) Bird
(7)	The excretory product th	at requires minimum wa	ter for its elimination comp	
	(A) Urea	(B) Uric acid	(C) Ammonia	(D) Creatinine
(8)	The movement shown by	the sperm of liver - wo	rts towards archegonia is:-	
	(A) Phototactic	(B) Chemotactic	(C) Haptonastic	(D) Thermonastic
(9)	The vertebral column of	human consist of:-	3	(B) Thermonastic
	(A) 23 vertebrae	(B) 30 vertebrae	(C) 33 vertebrae	(D) 35 vertebrae
(10)	Pairing of an irrelevant sti		mary stimulus that elicits a	n automatic
(11)	response involves:- (A	(B) Op		abituation (D) Imprinting
	(A) Ethene	(B) Cytokinins	(C) Abscisic acid	(D) (CIL)
(12)	A reproductive cycle four	The state of the s	s except human being is:-	(D) Gibberellins
50-64	(A) Oestrous cycle	(B) Menstrual cycle		ADS TAX STATE OF THE
(13)	Neurula is the stage in wh		(C) Ovarian cycle	(D) Uterine cycle
	(A) Blastocoele	(B) Neurocoel	(C) The come leave	(7)
(14)			(C) The germ layer nistone proteins forming a	(D) Archenteron
	(A) Nucleosome	(B) Nucleotide	(C) Nucleoside	
15)	Individuals have additiona			(D) Chromatin
	(A) Down's Syndrome		drome (C) Turner's Sync	lasses (D) D1
16)	Bivalent or tetrad formatio	n is characterized by:	drome (C) Turner's Sync	rome (D) Edward
	(A) Leptotene	(B) Zygotene	(C) Pachytene	(D) D! I
17)		The state of the s	y, when father is colour bli	(D) Diplotene
	(A) Zero %	(B) 25 %	(C) 50 %	
	W. W. Control of the	<u> </u>		(D) 100 %
			28(Obj)(\$\frac{1}{2} \frac{1}{2} \))-2018(A)	-100 (MULTAN)

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8466 Number:

TIME ALLOWED: 20 Minutes

2018 (A) Roll No._

MAXIMUM MARKS: 17

INTERMEDIATE PART-II (12th CLASS)

que	tting or filling two or more estions as given in objective BUBBLES are not filled.	e in front of that ques bubbles will result in type question paper a	zero mark in that question	or pen to fill the bubbles. 1. Attempt as many
(1)	Neurula is the stage in w	hich embryo has:-		
	(A) Blastocoele	(B) Neurocoel	(C) The germ layer	(D) Archenteron
(2)	The DNA duplex is coile		nt histone proteins forming	a compley known as as
	(A) Nucleosome	(B) Nucleotide	(C) Nucleoside	(D) Chromatin
(3)	Individuals have addition			(D) Chromatin
	(A) Down's Syndrome		yndrome (C) Turner's Sy	ndrome (D) Edward
(4)	Bivalent or tetrad formati	on is characterized by:-		marcine (B) Edward
	(A) Leptotene	(B) Zygotene	(C) Pachytene	(D) Diplotene
(5)	is the risk of a col	our blind child in a fan	nily, when father is colour b	olind but mother is normal
	(A) Zero %	(B) 25 %	(C) 50 %	(D) 100 %
(6)	pSc101 plasmid has antib	piotic resistance gene fo		(2) 100 /0
	(A) Tetracycline + ampici			(D) Erythromycin
(7)	Endosymbiont Hypothesis	s was first proposed by		(2) Distinoinsem
	(A) Linnaeus	(B) Lamarck	(C) Lynn Margulis	(D) Cuvier
(8)	The role a species plays in	a community includin	g behaviour and influence i	
	(A) Niche	(B) Habitat	(C) Environment	(D) Ecosystem
(9)	biome has been inc	reased in area by huma		(E) Zeosystem
	(A) Savana	(B) Grassland	(C) Desert	(D) Coniferous
(10)	In pure form the colour of	Ozone is:-		(-)
	(A) Bluish	(B) Reddish	(C) Pinkish	(D) Whitish
(11)	is Heterotherm.			C= / Wantibal
	(A) Hummingbird	(B) Fish	(C) Flying insect	(D) Bird
(12)	The excretory product that	t requires minimum wa	ter for its elimination comp	are to others is called:
	(A) Urea	(B) Uric acid	(C) Ammonia	(D) Creatinine
(13)	The movement shown by	the sperm of liver - wo	rts towards archegonia is:-	(-)
	(A) Phototactic	(B) Chemotactic	(C) Haptonastic	(D) Thermonastie
(14)	The vertebral column of h	uman consist of:-		, , , , , , , , , , , , , , , , , , , ,
	(A) 23 vertebrae	(B) 30 vertebrae	(C) 33 vertebrae	(D) 35 vertebrae
15)	Pairing of an irrelevant stin	nulus with a natural pri	mary stimulus that elicits ar	automatic
			erent conditioning (C) Ha	
16)	hormone promotes clo	osing of stomata under	conditions of water stress.	
	(A) Ethene	(B) Cytokinins	(C) Abscisic acid	(D) Gibberellins
17)	A reproductive cycle found	l in all female mammal		CLELON STANDARD
	(A) Oestrous cycle	(B) Menstrual cycle		(D) Uterine cycle
			28(Obj)(公公公)-2018	The second secon

Paper Code	Pa	per	Code
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TIME ALLOWED: 20 Minutes

2018 (A)

Roll No.

MAXIMUM MARKS: 17

Number: 8408

INTERMEDIATE PART-II (12th CLASS)

Note: You have four choices for each objective type question as A, B, C and D. The choice which you

OBJECTIVE

ques	k is correct, fill that bubbling or filling two or more tions as given in objective BUBBLES are not filled.	e in front of that questic bubbles will result in ze type question paper an	ero mark in that question d leave others blank. No	or pen to fill the bubbles. Attempt as many credit will be awarded in		
(1)	Pairing of an irrelevant st	imulus with a natural pri	mary stimulus that elicits	an automatic		
				abituation (D) Imprinting		
(2)			conditions of water stress.			
	(A) Ethene		(C) Abscisic acid	(D) Gibberellins		
(3)	A reproductive cycle fou		ls except human being is:-			
	(A) Oestrous cycle		(C) Ovarian cycle	(D) Uterine cycle		
(4)	Neurula is the stage in w	hich embryo has:-	100	(2.7)		
	(A) Blastocoele	(B) Neurocoel	(C) The germ layer	(D) Archenteron		
(5)	The DNA duplex is coile	ed around a core of eight	histone proteins forming a			
	(A) Nucleosome	(B) Nucleotide	(C) Nucleoside	(D) Chromatin		
(6)	Individuals have addition	al sex chromosome show	/S:-	(-/.sissassy		
	(A) Down's Syndrome	(B) Klinefelter's Syr	ndrome (C) Turner's Syr	ndrome (D) Edward		
(7)	(A) Down's Syndrome (B) Klinefelter's Syndrome (C) Turner's Syndrome (D) Edward Bivalent or tetrad formation is characterized by:-					
	(A) Leptotene	(B) Zygotene	(C) Pachytene	(D) Diplotene		
(8)	is the risk of a colour blind child in a family, when father is colour blind but mother is normal.					
	(A) Zero %	(B) 25 %	(C) 50 %	(D) 100 %		
(9)	pSc101 plasmid has antib	oiotic resistance gene for:	-	***		
	(A) Tetracycline + ampici	llin (B) Tetracycline	(C) Macrolides	(D) Erythromycin		
(10)	Endosymbiont Hypothesis	was first proposed by:-		7.3 3		
	(A) Linnaeus	(B) Lamarck	(C) Lynn Margulis	(D) Cuvier		
(11)	The role a species plays in	a community including	behaviour and influence is			
	(A) Niche	(B) Habitat	(C) Environment	(D) Ecosystem		
(12)	biome has been inc	reased in area by human	activities,	, - / sec - /		
	(A) Savana	(B) Grassland	(C) Desert	(D) Coniferous		
(13)	In pure form the colour of	Ozone is:-		XXX S SSSSSX SS		
	(A) Bluish	(B) Reddish	(C) Pinkish	(D) Whitish		
(14)	is Heterotherm.					
	(A) Hummingbird	(B) Fish	(C) Flying insect	(D) Bird		
(15)	The excretory product tha		er for its elimination compa			
	(A) Urea	(B) Uric acid	(C) Ammonia	(D) Creatinine		
(16)	The movement shown by	the sperm of liver – wort	s towards archegonia is:-			
	(A) Phototactic	(B) Chemotactic	(C) Haptonastic	(D) Thermonastic		
(17)	The vertebral column of h	uman consist of:-		War Startman		
	(A) 23 vertebrae	(B) 30 vertebrae	(C) 33 vertebrae	(D) 35 vertebrae		
		28(Obj)(🛣 🛣	なか)-2018(A)-100 (A			

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN OBJECTIVE KEY FOR INTERMEDIATE ANNWAL/SUPPEY EXAMINATION, 2018

Name of S	ubject:_	BIOLOGY	Session:
Group :	1st	(old scheme)	Group: 2nd

Q.	Paper Code	Paper Code	Paper Code	Paper Code
Nos	8461	8463	8465	8467
1	\mathcal{B}	\mathcal{D}	B	B
2	\mathcal{B}	C	C	D
3	A	B D	D	B
4	A	\mathcal{D}	D C	C
5	B		\mathcal{B}	D
6	\mathcal{D}	B	D	C B
7	\mathcal{B}	\mathcal{B}	C	В
8	C	A	B	D
9	\mathcal{D}	C	B	C
10	C	B	A	B
11	B	B	C	B
12	D	A	B	A
13	C	A	В	C
14	B	B	A	B
15	В	D	A	В
16	A	В	B	A
17	C	C	D	A
18				
19				
20				

Q.	Paper Code	Paper Code	Paper Code	Paper Code	
Nos	8462	8464 8466		8468	
1	A	B	B	A	
2 B		2	A	C	
3	B	A C A	В	A	
4	C	C	В	B	
5	A	A	A	A	
6	C	A	B	B	
7	A	B	C A C	B	
8	BB		A	A	
9 A 10 B 11 B 12 A		C	C	B	
		A	A	B	
		C	A	A	
		A	В	C	
13	В	В	В	A	
14			C	A	
15	C A C	A B	A	B	
16	C	В	C	В	
17	A	A	A	C	
8					
9					
0					

بر نے اور کر کے ان کا بغور مطالعہ کرلیا ہے اور کی اور کی اور کی اور کی کرایا ہے۔ اور کی کا بیات کی موالد برجہ ادار کی کا کی استان 2018 کا کی جہ سے مضمون برچہ انٹائیہ ومعروضی (Subjective & Objective & Digictive کی بیان مطابق Set کیا ہے۔ اس سوالیہ برچہ میں کی وشتم کی کوئی غلطی نہ ہے۔ ہم نے سوالیہ برچہ کا اردو اور انگریز کو Version بھی چیک کرلیا ہے۔ یہ Version آپس میں مطابقت رکھتے ہیں۔ نیز اس پرچہ کی معروضی (Key (MCQs) کی بابت تعدیق کی جاتی ہی جہ کی کوئی غلطی نہ ہے۔ مزید ہید کہ ہم نے کہ بابت تعدیق کی جاتی ہے کہ اس میں بھی کی قتم کی کوئی غلطی نہ ہے۔ مزید ہید کہ ہم نے Rubrics بھی تیار کردہ ہدایات وصول کر کے ان کا بغور مطالعہ کرلیا ہے اور ان کی روثنی میں اندون میں اندون کی بیار کردی گئی ہیں۔

Prepared & Checked By: Dated: 17/5/2018 S.# Name Designation Institution Mobile No Signature Dr. Sted Gasner Ah Assoc. Gort · Emerson 0304-Prof Hoge Multan 7 268831 Dr.M. Riaz Gout. Millat Degree College, MIN Asst. prof 7356740 2 3 5

Re-	بی حم کی کوئی ملکی نہے۔ Checked By	مل در رسل کرلی ہے۔) معروض "Key" اور ہدایات کے حوالہ سے	برجه (انثائيه+معروضي	الم في درج بالاسواليد
1	Mikammad Aslac m.	Alsso-prof	bout Emerson College	22407	Bhe
2	Tameri Asle	A.P	ant allege Civil	3020	E.J

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