2018 (A)

Roll No:

INTERMEDIATE PART-II (12th CLASS)

BIOLOGY PAPER-II (NEW SCHEME) GROUP-I

TIME ALLOWED: 2.40 Hours

(b)

SUBJECTIVE

MAXIMUM MARKS: 68

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

SECTION-I

0.21	SECTION-I	
(v (i) (x (x	Why temperature of body increases during fever? Explain. Differentiate between fibres and sclereides. What is "All or None response"? 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?	8 × 2 = 16
(i) (i) (i) (i) (i) (i) (i) (x)	i) What are Neurotransmitters? Give examples.  Write two functions of Parathyroid gland.  Differentiate between gene and allele.  What is Epistasis? Differentiate it from dominance.  Define Crossing Over. Give its importance.  Write three methods to get gene of interest.  What is Probe? How is it traced?  What do you know about the Particle Gun?	8 × 2 = 16
(i) (v (v (v	Write about cleavage and discoidal cleavage.  Write the functions of DNA polymerase III.  Differentiate between Pyrimidines and Purines.  Define Phenylketonuria.  Write symptoms of Turner's Syndrome.  Define cell cycle. Write its phases.  Define Hardy-Weinberg Theorem and also write its formula.	6 × 2 = 12
NOTE	SECTION-II	
5.(a)	E: - Attempt any three questions.  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

Discuss comparative anatomy as an evidence of Evolution.

Pa	per	Cod	e
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2018 (A)

Roll	NI-
KOI	No

Number:

4461

# INTERMEDIATE PART-II (12th CLASS)

# BIOLOGY PAPER-II (NEW SCHEME) GROUP-I

TIME	E ALLOWED: 20	Minutes	OBJECTIVE	MAXIMUM MARKS: 17
think Cuttin questi	is correct, fill that be ag or filling two or m ons as given in object UBBLES are not fill	abble in front of that ore bubbles will resu tive type question pa	e type question as A, B, C an question number. Use mark alt in zero mark in that questi aper and leave others blank. estions on this sheet of OBJE	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	are reabsorbed in:-		
	(A) Proximal tubule	(B) Bowman's caps	ule (C) Loop of Henle	(D) Distal tubule
(3)	The membrane that h	ounds vacuole is calle	ed:-	
	(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 ofte	n accompanied by a b	urst of respiratory activity calle	ed:-
	(A) Biometric	(B) Redox	(C) Climacteric	(D) Photorespiration
(6)	An example of long-	day plants is:-	201	* *
	(A) Tomato	(B) Cabbage	(C) Corn	(D) Soyabean
(7)	Mongolism is the oth	ner name of:-	* *	
	(A) Klinefelter's Syr	ndrome (B) Turner's	Syndrome (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 carr	y impulse towards cell body is	The state of the s
	(A) Dendron	(B) Axons	Nissl's granules	
(10)	The human life span	is judged to be maxim		
	(A) 60 - 70 years	(B) 70 – 100 years	(C) 120 - 125 years	(D) 130 - 135 years
(11)	In sickle cell anemia	code for glutamic aci		(-)
	(A) Leucine	(B) Histidine	(C) Valine	(D) Proline
(12)	Universal recipient b	olood group is bl	1800 CONTRACTOR CONTRA	A - C
	(A) A	(B) B	(C) AB	(D) O
(13)	An enzyme $\alpha$ – gala is harvested from:-	ctosidase that can be t	used to treat a human lysosome	4-1-2-11-2-1
	(A) Soyabeans	(B) Tobacco plants	(C) Sugarcane	(D) Corn plants
(14)	The first photosynth reducing $CO_2$ to:-	etic organisms probab	ly used Hydrogen Sulphide as	Carried Co. According to the Control of the Control
	(A) Sugars	(B) H <sub>2</sub> CO <sub>3</sub>	(C) RUBP	(D) Malate
(15)	Primary succession n	nay start in a dry soil o	or rock is called:-	
	(A) Hydrosere	(B) Xerosere	(C) Desert	(D) Derosere
(16)	Cacti and Euphorbia	are the desert plants v	which store water in their:-	
	(A) Fleshy leaves	(B) Fleshy buds	(C) Fleshy stems	(D) Fleshy roots
(17)	(A) One million $O_3$	m can react with ultra- molecules (B) T	violet rays and destroy as many hree millions $O_3$ molecules	
	(C) Four millions O <sub>3</sub>	molecules (D) S	ix millions O3 molecules	
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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.	(i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix) (x) (xi) (xii)	Attempt any eight parts.  Write a concise note on Hemodialysis.  Briefly describe Urea Cycle.  What is Uremia? Give its treatment.  How does tendon differ from Ligament?  Differentiate between sapwood and heartwood.  Write down disadvantages of Exoskeleton.  How do photoperiodism and vernalisation resemble with each other?  Write the functions of sertoli cells.  Compare weather with climate.  Write down soil conditions of grassland ecosystem.  Differentiate between Pollution and Pollutants.  Write any four ways to Conserve Energy.	8 × 2 = 16
3.	(i) (ii) (iii) (iv) (v) (vi) (vii) (ixi) (xi) (xii)	Attempt any eight parts.  What are Effectors?  Differentiate between Chemoreceptors and Mechanoreceptors.  What is Epilepsy? Write the name of important test in the study of Epilepsy.  Differentiate between Gene and Allele.  What is Law of Segregation?  Define Epistasis.  Enlist three possible ways to get the gene of interest.  What is Gene Therapy? Write names of two methods used for gene therapy.  What is Recombinant DNA?  Differentiate between Population and Community.  What are biotic components of an Ecosystem?  Differentiate between Autecology and Synecology.	8 × 2 = 16
4.	(i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix)	Attempt any six parts.  Differentiate between Primary Growth and Secondary Growth.  Define Growth Correlation.  Differentiate between Heterochromatin and Euchromatin.  Define Nucleosome.  Write two importance of Mitosis.  Differentiate between Benign tumour and Malignant tumour.  What is Phosphodiester bond?  What is Endosymbiont Hypothesis?  What are Vestigial organs? Give two examples.	6 × 2 = 12
NO	TE: -	Attempt any three questions.  SECTION-II	2 0 24
5.(a		rite Homeostatic function of Liver.	$3 \times 8 = 24$
2.16	, ,,	Tomosaure function of Liver.	4

Nome	SECTION-II		
NOTE	: - Attempt any three questions. 3 × 8	= 24	
5.(a)	Write Homeostatic function of Liver.	4	
(b)	Describe various stages of succession in Xerosere.	4	
6.(a)	Write a note on paratonic movements in plants.	4	
(b)	Write a note on Transcription.	4	
7.(a)	What are Plant Hormones? Give the effects of Gibberellins and Ethene.	4	
(b)	What are Renewable and non-renewable resources? Describe water as a renewable resource.	4	
8.(a)	Describe female reproductive system of humans.	4	
(b)	Describe the mechanism of incomplete dominance with an example.	4	
9.(a)	Describe the external factors affecting the rate of growth in plants.	4	
(b)	Describe the Hardy-Weinberg Theorem.	4	

MAXIMUM MARKS: 17

in

Number: 4462

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

(1)	The human abdomi	nal cavity lined by a thi	n epithelium is called:-	
	(A) Ectoderm	(B) Endoderm	(C) Peritoneum	(D) Epidermis
(2)		Agenta and a second and a second	at is present in a part of the l	CALL CALL TO THE PURPLE CALL CONTROL
	(A) Cerebrum	(B) Thalamus	(C) Hypothalamus	(D) cerebellum
(3)		in children with bowed		(D) cerebellum
	(A) Head	(B) Pelvis	(C) Chest	(D) Arms
(4)		24 CONG. OC. 5 (200)	ain their turgidity after:-	(D) / Hills
276	(A) 2 minutes	(B) 5 minutes	(C) 10 minutes	(D) 15 minutes
(5)	Alpha cells of Panci		(c) to minutes	(D) 15 initiates
	(A) Insulin	(B) Pancreatic juice	(C) Glucagon	(D) Secretin
(6)	Va Charles San Street	etes a hormone called:-	(c) Sideagon	(D) Secretifi
	(A) Progesterone	(B) Oxytocin	(C) Testosterone	(D) Estrogen
(7)		garden pea, maize, con		(D) Lonegen
			(C) Day-neutral plants	(D) Night-neutral plants
(8)		cells above the blastoc		(2) riigii neuttu piane
Fare	(A) Ectoderm	(B) Mesoderm	(C) Endøderm	(D) Blastoderm
(9)	A sequence of three	nucleotides in mRNA		(2) 2 400
	(A) Cistron	(B) Codon	(C) Anticodon	(D) Template
(10)	Meiosis II is just like	e the:-		(-)
	(A) Amitosis	(B) Regenerations	(C) Mitosis	(D) Replacement
(11)	The chances of teen		vn's syndrome child is:-	No. 6 - 114
	(A) One in one hund		(B) One in one thousand	
	(C) One in many the	ousands	(D) One in ten thousands	
(12)	Protanopia is a:-		A STATE OF THE STA	
	(A) Red blindness	(B) Green blindness	(C) Blue blindness	(D) Brown blindness
(13)	Cystic fibrosis patie	ents lack a gene that cod	les for trans-membrane carrie	
	(A) Sodium ion	(B) Chloride ion	(C) Potassium ion	(D) Calcium ion
(14)	Acquired characteri	stics of an individual ca	n not be:-	
	(A) Inherited	(B) Lost	(C) Flourished	(D) Migrated
(15)	Lichen is a symbioti	c association between a	fungus and:-	
	(A) Gymnosperm	(B) Angiosperm	(C) An alga	(D) Pteridophyta
(16)	Limnetic phytoplan	kton include the:-		
	(A) Bacteria	(B) Cyanobacteria	(C) Fishes	(D) Mosses
(17)	A chemical which k	ills the weeds in a crop	is known as:-	
	(A) Insecticides	(B) Pesticides	(C) Herbicides	(D) Germicides

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

Name of	Subject:_	B101088

Session: 2016 - 2018

Group :

1st ( New Scheme)

Group: 2nd C New Scheme)

Q.	Paper Code	Paper Code	Paper Code	Paper Code
Nos	4461	4463	4465	4467
1	B	A	C	-
2	A	BAD	A	B
3	D	C	A	C
4	A	A	c	D
5	C	$\mathcal{B}$	c	A
6	B	A	c	C
7	C	D	В	C
8	D	A	A	C
9	A	C	BOLD	B
10	C	В	C	Ā
11	c	C	A	BAD
12	C	D	B	OC.
13	B	A	A	A
14	A	C	D	B
15	BAD	C	A	Α
16	C	C	C	D
17	A	В	B	A
18				
19			1-	
20				

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	B	A	c	<b>B</b>
4	<b>B</b>	C	D	c
5	0	B	B	C
6	A	C	C	C
7	C	C	C	B
8	D	C	AB	C
9	B	B	B	C
10	C	C	A	1
11	c	C	C	C D
12	A	A	2	D
13	B	C	2	B
14	A	2	C	C
15	C	B	c	C
16	B	C	B	A
17	c	c	_	B.
18	4			
19				
20				