2018 (A) Roll No.				
Nu	mber: 4465	INTERMEDIATE P.		oll No
BIO	LOGY PAPER	P.II (NEW SCHEME)	CROUD A	TN-G1-12-18
	E ALLOWED: 20			
			JECTIVE	MAXIMUM MARKS: 17
Cutt	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 questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve questions on this sheet of OBJECTIVE PAPER.			
S	***		on this sheet of OBJ	ECTIVE PAPER.
(1)	Mongolism is the o			
(4)		yndrome (B) Turner's Syndro	ome (C) Down's Synd	rome (D) Jacobs
(2)		in yeast cells is completed in:-		
40.	(A) 24 hours	(B) 4.5 hours	(C) 30 minutes	(D) 90 minutes
(3)		rocess/fibres which carry impu	ilse towards cell body i	s called:-
	(A) Dendron	(B) Axons	(C) Nissl's granules	(D) Neurofibrils
(4)		n is judged to be maximum of:	-	
	(A) 60 – 70 years	(B) $70 - 100$ years		(D) 130 – 135 years
(5)	In sickle cell anemi	a code for glutamic acid is rep	laced by:-	
	(A) Leucine	(B) Histidine	(C) Valine	(D) Proline
(6)	Universal recipient	blood group is blood gro	up.	
	(A) A	(B) B	(C) AB	(D) O
(7)	An enzyme α – gal is harvested from:-	lactosidase that can be used to	treat a human lysosome	e storage disease,
	(A) Soyabeans	(B) Tobacco plants	(C) Sugarcane	(D) Corn plants
(8)	reducing CO ₂ to:-	hetic organisms probably used	Hydrogen Sulphide as	a source of Hydrogen for
	(A) Sugars	(B) H_2CO_3	(C) RUBP	(D) Malate
(9)	Primary succession	may start in a dry soil or rock	is called:-	
	(A) Hydrosere	(B) Xerosere	(C) Desert	(D) Derosere
(10)	Cacti and Euphorbi	a are the desert plants which st	ore water in their:-	
	(A) Fleshy leaves	(B) Fleshy buds	(C) Fleshy stems	(D) Fleshy roots
(11)	(A) One million O_3		hys and destroy as many llions O_3 molecules	y as:-
(12)	(C) Four millions O		ons O ₃ molecules	
	(A) Bird	(B) Amphibian	(C) Flying insect	(D) Some fishes
13)	Glomerular filtrate	are reabsorbed in:-		
	(A) Proximal tubule	(B) Bowman's capsule	(C) Loop of Henle	(D) Distal tubule
14)	The membrane that	bounds vacuole is called:-		
	(A) Primary cell	(B) Vascular wall	(C) Pelicle	(D) Tonoplast
15)	In birds, the sternur	m is modified to form:-		•
	(A) Keel	(B) Neck	(C) Rib	(D) Clavicle
16)	Fruit ripening is often	en accompanied by a burst of r	11.000.000.000.000.000	
*	(A) Biometric	(B) Redox	(C) Climacteric	(D) Photorespiration
17)	An example of long	-day plants is:-		,
	(A) Tomato	(B) Cabbage	(C) Corn	(D) Savahaan

2018 (A) Roll No: INTERMEDIATE PART-II (12th CLASS) MTN-G1-12-18

BIOLOGY PAPER-II (NEW SCHEME)

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>(</i> ;)	Attempt any eight parts.	$8\times2=16$
	(i) (ii)	What is Lithotripsy?	
	(iii)	Why temperature of body increases during fever? Explain.	3
	(iv)	Differentiate between fibres and sclereides.	
	(v)	What is "All or None response"? Define Vernalisation.	60
	(vi)		
	(vi)	What is meant by "After birth"?	
		Differentiate between Climate and Weather.	
	(viii)	Define Productivity of an Ecosystem.	
	(ix)	What are heat-shock Proteins?	
	(x)	What is cause and symptoms of Rickets?	8
	(xi)	How forests act as environmental buffers?	
	(xii)	Define Demography.	
3.		Attempt any eight parts.	$8 \times 2 = 16$
	(i)	Define Nissl's granules.	0 ^ 2 - 10
	(ii)	What are Neurotransmitters? Give examples.	
	(iii)	Write two functions of Parathyroid gland.	
	(iv)	Differentiate between gene and allele.	
	(v)	What is Epistasis? Differentiate it from dominance.	
	(vi)	Define Crossing Over. Give its importance.	
	(vii)	Write three methods to get gene of interest.	
	(viii)	What is Probe? How is it traced?	
	(ix)	What do you know about the Particle Gun?	
	(x)	Compare Autecology with Synecology.	*
	(xi)	Differentiate between Primary and Secondary Succession.	
	(xii)	What are Lichens? Write its significance.	
4.			20
4.	(i)	Attempt any six parts.	$6\times 2=12$
	(ii)	Write practical applications of Apical dominance.	
	(iii)	Write about cleavage and discoidal cleavage.	
	(iv)	Write the functions of DNA polymerase III.	
		Differentiate between Pyrimidines and Purines.	
	(v) (vi)	Define Phenylketonuria. Write symptoms of Turner's Symptoms	
	(vii)	Write symptoms of Turner's Syndrome. Define cell cycle. Write its phases.	
	(viii)	Define Hardy-Wainbarg Theorem and also wells in County	
	(ix)	Define Hardy-Weinberg Theorem and also write its formula. What is Endosymbiont hypothesis?	
	(IA)	what is Endosymolom hypomesis?	
		SECTION II	

SECTION-II

	: - Attempt any three questions.	$3 \times 8 = 24$
5.(a)	Discuss the nature of excretory products in different habitats.	
(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
(p)	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

Pape	r Code	20	18 (A)		Roll N	0
Number: 4462 INTERMEDIATE PART-II (12th CLASS)						
BIO	LOGY PAPER-					-42-12-18
Note think Cutti quest case l	TIME ALLOWED: 20 Minutes OBJECTIVE MAXIMUM MARKS: 17 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 questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve questions on this sheet of OBJECTIVE PAPER.					
Q.No						
(1)		nal cavity lined by a th	150			
(8)	(A) Ectoderm	(B) Endoderm		Peritoneum	8	D) Epidermis
(2)		ne homeostatic thermos	tat is pr	resent in a part of	f the brain	n called as:-
	(A) Cerebrum	(B) Thalamus		lypothalamus	(D) cerebellum
(3)		in children with bowed	legs ar	nd deformed		U
	(A) Head	(B) Pelvis	(C) (D) Arms
(4)	The folded leaflets of	of sensitive Mimosa reg	gain the	ir turgidity after:		
	(A) 2 minutes	(B) 5 minutes	(C) 1	0 minutes		D) 15 minutes
(5)	Alpha cells of Panci	reas secrete:-				
	(A) Insulin	(B) Pancreatic juice	(C) (Hucagon	(D) Secretin
(6)	Corpus luteum secre	etes a hormone called:-				
	(A) Progesterone	(B) Oxytocin	(C) T	estosterone	(D) Estrogen
(7)	Cucumber, tomato,	garden pea, maize, cott	on are	examples of:-		
	(A) Short-day plants	s (B) Long-day plants	(C) I	Day-neutral plant	s (D) Night-neutral plants
(8)	The discoidal cap of	f cells above the blastoc	coele is	called:-		
	(A) Ectoderm	(B) Mesoderm	(C) E	Endoderm	(D) Blastoderm
(9)	A sequence of three	nucleotides in mRNA	is calle	ed:-		*
	(A) Cistron	(B) Codon	(C) A	Anticodon	(D) Template
(10)	Meiosis II is just lik	e the:-				
<	(A) Amitosis	(B) Regenerations	(C) N	Mitosis	(D) Replacement
(11)	The chances of teer	nage mother having Do	wn's sy	ndrome child is:	:-	
	(A) One in one hund	dred	(B) C	One in one thous	and	
	(C) One in many the	ousands	(D) (One in ten thousa	ands	
(12)	Protanopia is a:-					
	(A) Red blindness	(B) Green blindness	(C) E	Blue blindness	(D) Brown blindness
(13)	Cystic fibrosis patie	ents lack a gene that co	des for	trans-membrane	carrier of	f the:-
	(A) Sodium ion	(B) Chloride ion	(C) P	otassium ion	(D) Calcium ion
(14)	Acquired characters	istics of an individual c	an not	be:-		
	(A) Inherited	(B) Lost	(C) F	lourished	(D) Migrated
(15)	Lichen is a symbioti	ic association between	a fungu	s and:-		
	(A) Gymnosperm	(B) Angiosperm	(C) A	An alga	(D) Pteridophyta
(16)	Limnetic phytoplan	akton include the:-	201 1150	10 ¹ 522		
	(A) Bacteria	(B) Cyanobacteria	(C) F	ishes	(D) Mosses
(17)	A chemical which k	ills the weeds in a crop	3 (5)		,	to contractive
	(A) Insecticides	(B) Pesticides		Herbicides	(D) Germicides

		2018 (A) Roll No:			
	INTERMEDIATE PART-II (12th CLASS)				
B	OLO	GY PAPER-II (NEW SCHEME) GROUP-II MW-92-12-18			
TI	ME A	LLOWED: 2.40 Hours SUBJECTIVE MAXIMUM MARKS: 68			
		Write same question number and its part number on answer book,			
		as given in the question paper.			
		SECTION-I			
2.		Attempt any eight parts. $8 \times 2 = 16$			
	(i)	Write a concise note on Hemodialysis.			
	(ii)	Briefly describe Urea Cycle.			
	(iii)	What is Uremia? Give its treatment.			
	(iv)	How does tendon differ from Ligament?			
	(v)	Differentiate between sapwood and heartwood.			
	(vi) Write down disadvantages of Exoskeleton.				
	(vii) How do photoperiodism and vernalisation resemble with each other?				
	(viii)	Write the functions of sertoli cells.			
	(ix) Compare weather with climate.				
	(x) Write down soil conditions of grassland ecosystem.				
	(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?			
	(ii)	Differentiate between Chemoreceptors and Mechanoreceptors.			
	(iii)	What is Epilepsy? Write the name of important test in the study of Epilepsy.			
	(iv)	Differentiate between Gene and Allele.			
	(v)	What is Law of Segregation?			
	(vi)	Define Epistasis.			
	(vii)	Enlist three possible ways to get the gene of interest.			
	(viii)	What is Gene Therapy? Write names of two methods used for gene therapy.			
	(ix)	What is Recombinant DNA?			
	(x)	Differentiate between Population and Community.			
	(xi)	What are biotic components of an Ecosystem?			

Differentiate between Autecology and Synecology. 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) Define Nucleosome. (iv) (v) Write two importance of Mitosis. Differentiate between Benign tumour and Malignant tumour. (vi) (vii) What is Phosphodiester bond?

What is Endosymbiont Hypothesis?

What are Vestigial organs? Give two examples.

(viii)

(ix)

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