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# SECTION - A (Marks 17)

Time al	llowed: 25 Minutes	Revised Syllabus
NOTE:	Section-A is compulsory. All parts of this section are to be answer	

Time :	Sec It sl	tlon–Ai	e completed i	n the fi		and ha	nded over to	on the c	National Book Foundation Revised Syllabus Juestion paper itself. htre Superintendent.
Q. 1					C / D. Each part	carrles	one mark.		<del></del>
	(i)		dary sewage tr		is mainly a:	_			
		Α.	Mechanical p			B.	Biological pro		
	(ii)	C. Incide	Physical proc		nucous membrai	D.	Chemical pro		at help to warm the
	(11)	air to a		atti tile li	ideous membrai	io triore	are blood capin	aries tric	a noip to marm the
		A.	35°C	В.	28° C	C.	37° C	D.	30°C
	(iii)				es has broades				30 0
	<b>\</b> /	Α.	Epinephrine	В.	ADH	C.	Oxytocin	D.	TSH
	(iv)	Endon		nction as	both neurotrans				
		A	Peptides	В.	Steroids	C.	Carbohydrat	es D.	Lipids
	(V)		han 90% of ma	le infertil	ity is due to:		•		•
		A.	Autoimmune		-	В.	Azoospermia	1	
		C.	Sperm deform			D.	Oligospermia		
	(vi)	In whic	ch one of the fo	llowing g	roups Uric acid		he chief nitroge	nous wa	iste material?
		A.	Mammals	В.	Reptiles	C.	Birds	D.	Insects
	(vii)	In mar	n glucose is pre	sent in b	lood plasma but	not in u	rine. This is bed	ause glu	ucose molecules are:
		A.			wman's capsule				
		В.			om proximal cor		tubule to the bl	ood	
		Ċ.			ergy for ultra filtr	ation			
	6 -2111N	D.	Stored in the	-					·
	(viii)		ti vertebrae in ti Thoraci <b>c</b> vert		d curve of verte	oral colui B.	mn are known a Cervical vert		
		A. C.	Sacral verteb			D.	Lumbar vert		
	(ix)				ascicle is covere		_ <del>*</del>		called:
	(14)	A.	Endocardium		Epimysium	C.	Perimysium	D.	Endomysium
	(x)				ocean to fresh		•		•
	(^)	A.	Latent learnir		occan to nesin	B.	Habituation I		
		C.	Inborn behav			D.	Learning bel		41
	(xi)		one of the follo		ers forms epithe		gs of digestive,	respirato	ory and urinogenital
		Α.	Choanoderm		Ectoderm	C.	Endoderm	D.	Mesoderm
	(xii)	(locate	henomenon in v ed on different l Over dominan	ocus) is	gene at one locu called: Dominance	s interfer C.	es with effect c Co-dominan		y another gene Epistasis
	(viii)	A.							nd the core of 08 histone
	(xiii)	to form	• •	200 1100	eolides pail of th	ie dupie	C DIVA WIQP (WI	cc arour	id the core or oo motoric
		A.	· ·	В.	Nucleosome	C.	Nucleolus	D.	Chromosome
	(sind)		Plasmid				Nucleolus	D.	Chlomosome
	(xiv)		UAG	B.	T a stop codon? UAA	C.	UGA	D.	UGG
	(s = 3)	A. Tha h						D.	000
	(xv)	A.	Size	ansare ( B.	hose that show : Appearance	C.	Function	D.	Origin
	(sadi)								gy used in respiration is
	(xvi)	A.	Exhausted er	-	mains for plant g	B.	Gross prima		
		C.	Net primary p		itv	D.	Productivity	, <b>p</b> .ouu	
	(xvii)		omic DNA libra				•		
	····/	A.	Is a DNA cop	-	ure mRNAs				
		В.			lA in a specific o	hromoso	ome		
		C.	Is made by u	sing reve	erse transcriptas	е			
		D.	ls stored in a	collectio	n of recombinar	it bacteri	a		
	For E	xamıner	r's use only:			Total	Marks:		17

For Examiner's use only:		
of Examiner's use only.	Total Marks:	17
	Marks Obtained:	
	2UA 1610 (L)**	



National Book Foundation Revised Syllabus

Total Marks Sections B and C: 68

Time allowed: 2:35 Hours

Answer any fourteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

#### SECTION - B (Marks 42)

Q. 2	Answ	er any FOURTEEN parts. The answer to each part should not exceed 3 to 4 lines. (14	x 3 = 42)
~· <del>-</del>	(i)	What is Myoglobin? Give its biochemical nature and function.	(1+2)
	(ii)		•
	(iii)	Compare briefly different methods of Osmoregulation found in freshwater and marine	.5+1+0.5)
	(111)	water animals.	(03)
	(iv)	What is cartilage? Give its nature. How many types of cartilage normally exist in adults?	(1+1+1)
	(v)	Define Behaviour. Differentiate between Animal Aggregation and Animal Societies.	(1+2)
	(vi)	Give brief account of any three hormones produced by organs or tissues whose function is	
	( • 1)	primarily an endocrine one.	(03)
	(vii)	What are Narcotics? How do they interfare with Particular sites of human brain? Give effect	•
	(*11)	of Heroin.	/(S (1+1+1)
	(viii)	a. Define Neurotransmitters. Which one is most common neurotransmitter of human	(11111)
	(*****)		(0.5+0.5)
		b. How can a nerve gas inhibit acetylcholinesterase enzyme?	(0.5+0.5)
	(ix)	What are STDs? How are they passed from one human to another? Give detail of any	(02)
	(1//)	•	.5+0.5+2)
	(x)	Differentiate clearly between placenta and embilical cord along with their functions.	(03)
	(xi)	Highlight the phenomenon of Gene linkage. Why mendelian ratio of independent assortme	
	(20)	deviate due to gene linkage?	(2+1)
	(xii)	Write down the functions of the following:	(1+1+1)
	(////	a. Thyroxin b. Tropomyosin c. ADH	(1-1-1)
	(xiii)	What are sex related traits? Describe their different types with the help of examples.	(1+2)
	(xiv)	Define DNA replication. Describe any two models of DNA Replication presented	(,
	` '	by scientists.	(1+2)
·	(xv)	Describe genetic code briefly. Enlist important characteristics of genetic code.	(1+2)
	(xvi)	Highlight the Hardy-Weinburg principle. Give various factors that can change allele frequen	, ,
	, ,	within a population.	(1+2)
	(xvii)	What is Acid rain? Describe its major causes and effects on environment.	(1+2)
	(xviii)	Outline the steps of DNA Analysis procedure.	(03)
	(xix)	What is Animal husbandry? Describe briefly the nature of this job and its importance for	, ,
		human welfare.	(1+2)
Mada		SECTION - C (Marks 26)	45 55
Note:			13 = 26)
Q. 3	a.	How do bones get fracture? What are main types of fractures? Describe in detail the	(07)
	l.	process of Bone repair.	(07)
	b.	Describe main steps involved in Urine formation.	(03)
0.4	C.	Write down the causes, symptoms and treatment of lung cancer.	(03)
Q. 4	a.	What is Nerve Impulse? Write a comprehensive note on its generation and Transmission.	(08)
0.5	b.	Describe Neurulation process in human embryo (as first major event in organogenesis).	(05)
Q. 5	a.	Define Central Dogma. Discuss in detail Transcription. Also support your answer with the h	•
	<b>h</b>	of proper diagram.  What are Ecological Dynamide? Evaloin pyramids of Riemans and numbers	(07)
	b.	What are Ecological Pyramids? Explain pyramids of Biomass and numbers.	(04)
	C.	Define Cystic fibrosis. How is gene therapy of Cystic fibrosis carried out?	(02)

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Answer Sheet No		 	
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Time allowed:	25 Minutes		

Circl (i) (ii) (iii) (iv) (v) (vi)	In Pak A. Bilirub A. Which A. Which A.	Cortisone among the follow Cucumber is <b>NOT</b> concerna	moist co b B. own proc B. reted who B.	nditions are fou Karachi luct of: Myoglobin en the level of c Thyroxine	nd in: C. C.	one mark.  Swat  Nucleic Acid Increases in blood	D. D.	Shogran
(ii) (iii) (iv) (v)	A. Bilirub A. Which A. Which A. Which A.	Southem Punja in is the break de Purine bases hormone is sect Cortisone among the follor Cucumber is NOT concern	b B. own proc B. reted who B. wing is a	Karachi luct of: Myoglobin en the level of c Thyroxine	C. C. alcium i	Nucleic Acid		-
(iii) (iv) (v)	Bilirub A. Which A. Which A. Which A.	in is the break de Purine bases hormone is sect Cortisone among the follor Cucumber is NOT concern	own prod B. reted who B. wing is a	luct of: Myoglobin en the level of c Thyroxine	C. alcium i	Nucleic Acid		-
(iii) (iv) (v)	A. Which A. Which A. Which A.	Purine bases hormone is sect Cortisone among the follor Cucumber is <b>NOT</b> concern	B. reted who B. wing is a	Myoglobin en the level of c Thyroxine	alcium i		D.	
(iv) (v)	Which A. Which A. Which A.	hormone is sectoratione among the follow Cucumber is NOT concernations.	reted who B. wing is a	en the level of c Thyroxine	alcium i		D.	1.1
(iv) (v)	A. Which A. Which A.	Cortisone among the follow Cucumber is <b>NOT</b> concerna	B. wing is a	Thyroxine		increases in blood		Haemoglobin
(v)	Which A. Which A.	among the following Cucumber is NOT concernations:	wing is a	•	C		?	
(v)	A. Which A.	Cucumber is <b>NOT</b> concern	-	short-day plant		Parathormone	D.	Calcitonin
	Which A.	is NOT concern	B.	Short-day blant	?			
	A.			Tomato	C.	Strawberry	D.	Cabbage
(vi)								
(vi)	During	Haematoma	В.	Inflammation	C.	Degeneration	D.	Stiffness
	_	•	chick er	nbryo the hypot	plast for	med in process of	gastru	lation is presumptiv
	layer f				_		_	
	Α.	Yolk sac	B.	Ectoderm	C.	Endoderm	D.	Mesoderm
(vii)	Nucle		-		in a sti	ring. Each nucleos	ome is	s made up of
			cleotides				_	
	Α.	1000	В.	150	C.	200	D.	250
(viii)		is the result of a		ıl non-disjun <b>c</b> tio				
	Α.	Jacob's Syndro			В.	Down's Syndro		
	C.	Klinefelter's Sy			D.	Turner's Syndro		<b></b>
(ix)				e of classical ge	enetics i	by formulating two	iaws	of inheritance. His
		vas published in:			_		_	
	A.	1866 AD	В. 	1854 AD	C.	1860 AD	D.	1865 AD
(x)		ause of sickle cel		ia was discover	-			
	Α.	Archibald Garr			В.	F-Sanger		
	C.	Vernon-Ingram			D.	Beadle and Tat		
(xi)			er are A	and B heterozy	gous blo	ood groups, then t	heir ch	ildren can be with
	blood	• •	ta at inc		_	4D 1		
		All of the four b		oups	B.	AB group only		
	C.	A and B group			D	AB and O group	-	<i>'</i>
(xii)	_	•		~ .		due to the absence		A1 : 1
	A.	Glucokinase	В.	Isomerase	C.	Lipase	D.	Aldolase
(xiii)	_	asmid PSC 101					<b>D</b>	Danie III.
(viv)	A.	Sulphonamide		Ampicillin	C.	Tetracycline	D.	Penicillin
(xiv)		What is the frequ					iuais s	show the recessive
		0.25	B.	0.70	C.	•	D.	0.75
(201)	A.	verage annual ra		• • • •		0.50	D.	0.75
(xv)	A.	750–1500 mm		emperate decid 500 mm	C.	750 mm	D.	500–1000 mm
(wwi)					-	750 [[[[[	D.	500-1000 11811
(xvi)	A.	rm totipotent for F.C. Steward	Piant Cel	i was msi come	u by: B.	William Batesor	,	
	C.	Garrod			в. D.	Gottlieb Haberl		
(xvii)			sh Water	in the form of l		reams and rivers o		earth is:
(7411)	A.	1%	B.	5%	C.	10%	D.	2%

Total Marks:

Marks Obtained:





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### Punjab Text Book Board

Time allowed: 2:35 Hours

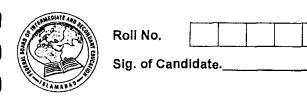
Total Marks Sections B and C: 68

Answer any fourteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

			9	ECTIO	<u> </u>				
Q. 2	Attem	pt any	FOURTEEN parts. The	answer	to each part should n	ot exce	ed 3 to 4 lines. (14 x 3 = 42		
	(i)	Defin	e the following:						
		a.	Lithotripsy	b.	Plumage Fluffing	C.	Pyrogen		
	(ii)	Write	down the function of the	hormon	es:				
		a.	Thyroxine	b.	Estrogen	C.	Oxytocin		
	(iii)	Name	e the bones of human cra	nium.					
	(iv)	Defin	e the following:			,			
		a.	Parthenocarpy	b.	Follicle atresia	C.	Menopouse		
	(v)	Defin	e the following:						
		a.	Embryonic Induction	b.	Teratology	C.	Discoidal cleavage		
	(vi)	Write	a brief note on Nucleoso	me.					
	(vii)	Write	the important features of	DNA -	Polymerase III.				
	(viii)	Write	a brief note on Malagnar	nt tumor					
	(ix)	Define the following:							
		a.	Epistasis	b.	Pleiotropy	C.	Linkage		
	(x)	Write	a brief note on Molecula	r carrier.					
	(xi)	What	is endosymbiont hypothe	esis? Ho	w does it help in evoluti	on of Eu	karyotic cell?		
	(xii)	Defin	e the following:						
		a.	Niche	b.	Habitat	C.	Biome.		
	(xiii)	Name	e three plants of temperat	te decid	uous forests.				
	(xiv)	What	is Predation? Write its si	gnifican	ce in ecosystem				
	(xv)	What	t is geothermal energy? V	Vhy it is	not feasible?				
	(xvi)	Defin	e the following:						
		a.	Climate	b.	Weather	C.	Succession		
	(xvii)	What	is Food-Web? Draw Foo	d Web.					
	(xviii)	Write	names of excereory orga	ans of th	e following animals:				
		a.	Planaria	b.	Earthworm	C.	Cockroach		
٠	(xix)	Write	a brief note on Sciatica						
			<u>s</u>	ECTION	<u> </u>				

Note:		Attempt any TWO questions. All questions carry equal marks.	$(2 \times 13 = 26)$
Q. 3	a.	Describe the structure of Nephron and draw its labelled, neat diagram	(05)
	b.	What is sliding filament model of muscle contraction? Show diagrammatically be	oth the relaxed
		and contracted muscle.	(04)
	c.	Write role of secretions of posterior lobe of pituitary gland	(04)
Q. 4	a.	What is the replication? Describe the process of replication of DNA.	(09)
	b.	What is Genomic library? How is it constructed?	(04)
0.5		eat is biogoo chomical cyclé? Describe nitrogen cycle	(9+4)

(9+4)



Answer Sheet No	
Sig. of Invigilator	

# SECTION - A ( Marks 17)

National Book Foundation Revised Syllabus

(i) Which of the following is NOT a goal of human genome project (HGP)?  A. Cloning C. Bioarchaeology D. Study of human evolution  (ii) Respiratory control centers are located in the: A. Upper spinal cord and Medulla C. Medulla and Pons D. Pons and Midbrain  (iii) Exophthalmic goiter results from Graves' disease is a classic symptom of: A. Addison's disease C. Hyperglycemia D. Hyperthyroidism  (iv) Dancing of honey bees for indication of food is a type of: A. Innate behaviour C. Tropic movement D. Learning behaviour (v) An egg fertilized in the laboratory and then implanted in the uterus for development is called: A. Miscarriage B. Test tube baby C. Cloning D. In vivo fertilization  (vi) During DNA sequencing techniques, use of dideoxynucleotides (dd NTP's) is common in: A. Dimethod B. Maxam method C. Sanger's method C. Sanger's method D. Gilbert method  (vii) Pelvic girdle is composed of three pairs of fused bones: A. Ileum, Ischium and Publs B. Ileum, Ischium and Frontal C. Clavicle, Scapula and Publs B. Ileum, Ischium and Frontal C. Clavicle, Scapula and Publs D. Malleus, Incus and Stapes  (viii) As filtrate travels up the ascending limb of Nephron, active uptake of sodium chloride into surrounding area is controlled by: A. insulin B. Aldosterone C. ADH D. Calcitonin  (ix) Irritability, abnormal involuntary movements and severe decline in thinking are symptoms of a nervous disorder called: A. Parkinsons disease D. Huntingtons disease C. Alzheimers disease D. Huntingtons disease E. Muttlple sclerosis C. Alzheimers disease D. Huntingtons disease A. Bewek B. 8th week C. 15th week D. 16th week D. 16th week D. 16th week D. 15th week	NOTE:	it si	d bluor		the fir	st 25 minu	tes and	handed ove		question paper itsel ntre Superintenden
(i) Which of the following is NOT a goal of human genome project (HGP)?  A Cloning C Bloarchaeology Respiratory control centers are located in the: A Upper spinal cord and Medulia B. Mildbrain and Medulia C. Medulia and Pons Exophthalming goiter results from Graves' diseases is a classic symptom of. A. Addison's disease C Hyperglycemia D. Hypothyroidism (iv) Dancing of honey bees for indication of food is a type of: A. Innate behaviour C Tropic movement C Tropic movement C Cloning C Cloning C Cloning C Cloning C C Cl	Q. 1	Circle	the cor	rect option i.e.	A/B/C	/ D. Each i	oart carrie	es one mari		
A. Cloning C. Bloarchaeology C. Bloarchaeology C. Bloarchaeology C. Bloarchaeology C. Bloarchaeology C. Bloarchaeology D. Study of human evolution  Midbrain and Medulla C. Medulla and Pons D. Pons and Midbrain C. Medulla and Pons D. Pons and Midbrain C. Medulla and Pons D. Pons and Midbrain C. Medulla and Pons C. Hyperthyroidism D. Hyperthyroidism C. Hyperglycemia D. Hyperthyroidism D. Hyperthyroidism D. Hyperthyroidism C. Tropic movement C. Tropic movement C. Tropic movement D. Learning behaviour C. Tropic movement C. Tropic movement D. Learning behaviour C. Cloning D. In vivo fertilization C. Cloning D. In vivo fertilization C. Sanger's method C. Sanger's method D. Gilbert method C. Sanger's method C. Sanger's method D. Gilbert method C. Sanger's method C. Clavicle, Scapula and Pubis D. Malleus, Incus and Stapes C. Cloring D. Malleus, Incus and Stapes C. Clavicle, Scapula and Pubis D. Malleus, Incus and Stapes C. Lintrability, abnormal involuntary movements and severe decline in thinking are symptoms of a nervous disorder callect A. Insulin B. Aldosterone C. Alzheimers disease D. Huntingtons disease D. Huntingtons disease D. Huntingtons disease C. Alzheimers disease D. Huntingtons disease D. Huntingtons disease D. Huntingtons disease C. Alzheimers disease D. Hallouring dentirification, which of the following reduces nitrates back to atmospheric nitrogen? A. 1650 kilometers D. 25% B. 100% C. 75% D. 35% D. 35% D. 30%										
C. Bioarchaeology (ii) Respiratory control centers are located in the: A. Upper spinal cord and Medulla C. Medulla and Pons C. Medison's disease C. Hyperglycemia (iv) Dancing of honey bees for indication of food is a type of: A. Addison's disease C. Hyperglycemia C. Tropic movement C. Cloning C. Sanger's method C. Clouide, Scapula and Pubis D. Malleus, Incus and Stapes (viii) As filtrate travels up the ascending limb of Nephron, active uptake of sodium chloride into surrounding area is controlled by: A. Insulin B. Aldosterone C. Albhum and Pubis D. Mulleus, Incus and Stapes C. Altritable Travels up the ascending limb of Nephron, active uptake of sodium chloride into surrounding area is controlled by: A. Insulin B. Aldosterone C. Albhum and Pubis D. Huntingtons disease C. Alzheimers di		(7	_			9				
(ii) Respiratory control centers are located in the:			C.		٧		D.			ution
A. Upper spinal cord and Medulla B. Midbrain and Medulla C. Medulla and Pons D. Pons and Midbrain and Medulla Exophthalmic golter results from Graves' disease is a classic symptom of: A. Addison's disease B. Hypothyroidism C. Hyperglycemia (iii) Dancing of honey bees for indication of food is a type of: A. Innate behaviour B. Biological Rhythm C. Irropic movement D. Learning behaviour A. Miscarriage C. Cloning D. In vivo fertilization C. Cloning D. In vivo fertilization A. Dimethod C. Sanger's method C. Cloving D. Maleum, Ischium and Pubis C. Clavicle, Scapula and Pubis D. Malleus, Incus and Stapes (viii) As filtrate travels up the ascending limb of Nephron, active uptake of sodium chloride into surrounding area is controlled by: A. Insulin B. Aldosterone C. ADH D. Calcitonin (ix) Irritability, abnormal involuntary movements and severe decline in thinking are symptoms of a nervous disorder called: A. Parkinsons disease D. Huntingtons disease C. Alzheimers disease D. Huntingtons disease C. Alzheimers disease D. Huntingtons disease C. Alzheimers disease D. Huntingtons disease A. Clive tuming and movement of human foetus inside the mother starts by: A. 6th week B. 8th week C. 15th week D. 16th week (xi) When a normal man is married with a normal woman whose father was colorbilind, then what will be percentage risk of this disease in their babies? A. 25% B. 100% C. 75% D. 35% D. Augusters D. Huntingtons D. Pseudomonas D.		(ii)	Respi			located in t				
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Total Marks: 17							Tot	tal Marks:		17

Marks Obtained:

- 2HA 1610 (ON)\*\*----

(07)

(06)



## **BIOLOGY HSSC-II**

National Book Foundation Revised Syllabus

Time allowed: 2:35 Hours

succession.

b.

Total Marks Sections B and C: 68

E: Answer any fourteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

#### SECTION - B (Marks 42)

		SECTION - B (Marks 42)					
Q. 2	Answ	ver any FOURTEEN parts. The answer to each part should not exceed 3 to 4 lines. (14	x 3 = 42)				
	(i)	Define Tidal volume. Also describe about vital capacity of human lungs.	(1.5+1.5)				
	(ii)	What is Feed back mechanism? How does negative feedback operate to control water cont	tents				
		in the body?	(1+2)				
	(iii)	Describe about synovial joints. Also explain any two types of synovial joints.	(1+2)				
	(iv)	Differentiate clearly between cramp and tetany muscle disorders.	(03)				
	(v)	Give parts of limbic system along with their functions.	(03)				
	(vi)	What is MRI test? Give its procedure and benefits.	(1+2)				
	(vii)	How is the blood calcium level regulated by calcitonin and parathormone?	(03)				
	(viii)	Define the following terms: a. Biological Rhythms b. Biological clock c. Circadian Rhythm	(1+1+1)				
	(ix)	Describe secretory post-ovulatory phase of the menstrual cycle. If fertilization has not occur	red				
	then what will be the end of this phase?						
	(x)	Differentiate between chromosomal mutations and gene/point mutations. Also name this typ	ре				
		(44+xo) of syndrome?	(2+1)				
	(xi)	Differentiate between incomplete dominance and co-dominance along with the help of					
		examples.	(03)				
	(xii) Highlight the role of morphogenetic determinants during development of an individual. Enlist						
		results drawn by Spemann during his 'delayed nucleation experiments'.	(1+2)				
	(xiii) Give major differences between homologous organs and analogous organs. What types of						
		evolution they represent?	(2+1)				
	(xiv)	What is demography? What main problems gradually appeared due to population explosion	1				
		in last few decades?	(1+2)				
	(xv)	Write down functions of the following: a. FSH and LH in Male b. Cortisone c. Troponin	(1+1+1)				
	(xvi)	Describe briefly the three principal methods for the creation of transgenic animals.	(03)				
	(xvii)	Give the role of Microbes in: a. Yoghurt making b. Vineagar making	(1.5+1.5)				
	(xviii)	Differentiate between protein synthesis (translation) of prokaryotes and eukaryotes.	(03)				
	(xix)	In which form maximum $CO_2$ transports in the blood towards lungs? Describe briefly chloride shifts or Hamburgers phenomenon.	e (1 <b>+2</b> )				
		SECTION - C (Marks 26)					
Note:	A	Attempt any TWO questions. All questions carry equal marks. (2 x ·	13 = 26 )				
Q. 3	a.	What is synapse? Discuss in detail its structure and mechanism of transmission.	(07)				
	b.	Describe neurosecretory role of posterior lobe of pituitary gland.	(04)				
Q. 4	с. а.	Write down the number and names of brain box bones.  Describe LAC Operon Model. Give its structure and working during positive regulation of ge	( <b>02</b> )				
₩. ₹	· ·	expression.	(07)				
	b.	Discuss the pattern of sex determination commonly found in man and drosophila.	(03)				
	C.	What is lactation? Name the hormone involved in milk production. Give significance of lactation for a baby.	tion (03)				
Q. 5	a.	Define ecological succession. Give its major kinds. Describe the whole process of xerarch	(00)				
		Succession	(07)				

Discuss in detail the whole functions of kidney being osmoregulatory organ in human body.