

NEET(UG)–2019 (ODISHA) FINAL EXAMINATION

(Held On Monday 20th MAY, 2019)

	BIOLOGY		TEST PAPER WITH ANSWER	
1. Ans.	 Which of the following cell organelles is present in the highest number in secretory cells ? (1) Mitochondria (2) Golgi complex (3) Endoplasmic reticulum (4) Lysosomes 	6.	 The main difference between active and passive transport across cell membrane is : (1) Passive transport is non-selective wherease active transport is selective (2) Passive transport requires a concentration gradient across a biological membrane whereas active transport requires energy to move solutes 	
Ans.	Non-membranous nucleoplasmic structures in nucleus are the site for active synthesis of(1) Protein synthesis(2) mRNA(3) rRNA(4) tRNA	Ans.		
3.	 Which of the following nucleic acids is present in an organism having 70S ribosomes only ? (1) Single stranded DNA with protein coat (2) Double stranded circular naked DNA (3) Double stranded DNA enclosed in nuclear membrane (4) Double stranded circular DNA with histone proteins 	Column IColum(a) Rennin(i) Vit(b) Enterokinase(ii) Fa(c) Oxyntic cells(iii) M(d) Fructose(iv) Tr(1) a-iii, b-iv, c-ii, d-i(2) a-iii(3) a-iv, b-iii, c-ii, d-i(4) a-iii	Column IColumn I(a) Rennin(i) Vitamin B12(b) Enterokinase(ii) Facilitated transport(c) Oxyntic cells(iii) Milk proteins(d) Fructose(iv) Trypsinogen(1) a-iii, b-iv, c-ii, d-ii(2) a-iv, b-iii, c-i, d-ii(3) a-iv, b-iii, c-ii, d-i(4) a-iii, b-iv, c-i, d-ii	
Ans. 4.		8. Ans. 9.	 Kwashiorkor disease is due to :- Simultaneous deficiency of proteins and fats Simultaneous deficiency of proteins and calories Deficiency of carbohydrates Protein deficiency not accompained by calorie deficiency (4) Select the correct sequence of events : Gametogenesis → Gamete transfer → Syngamy →Zygote → Cell division (Cleavage) → Cell differentiation → Organogenesis Gametogenesis → Gamete transfer →Syngamy 	
Ans. 5. Ans.	 Which of the following organic compounds is the main constituent of Lecithin ? (1) Arachidonic acid (2) Phospholipid (3) Cholesterol (4) Phosphoprotein 	Ans.	 → Zygote → Cell division (Cleavage) → Organogenesis → Cell differentiation (3) Gametogenesis → Syngamy → Gamete transfer → Zygote → Cell division (Cleavage) → Cell differentiation → Organogenesis (4) Gametogenesis → Gamete transfer → Syngamy → Zygote → Cell differentiation → Cell division (Cleavage) → Organogenesis 	

(4) Relaxin



- **10.** Which of the following hormones is responsible for both the milk ejection reflex and the foetal ejection reflex ?
 - (1) Estrogen (2) Prolactin
 - (3) Oxytocin

Ans. (3)

- **11.** No new follicles develop in the luteal phase of the menstrual cycle because
 - (1) Follicles do not remain in the ovary after ovulation
 - (2) FSH levels are high in the luteal phase
 - (3) LH levels are high in the luteal phase
 - (4) Both FSH and LH levels are low in the luteal phase

Ans. (4)

- **12.** In Australia, marsupials and placental mammals have evolved to share many similar characteristics. This type of evolution may be referred to as :
 - (1) Adaptive Radiation (2) Divergent Evolution
 - (3) Cyclical Evolution (4) Convergent Evolution

Ans. (4)

13. Match the items of column I with column II

10.			
	Column I	Column II	
	(a) XX-XO method	(i) Turner's	
	of sex determination	syndrome	
	(b) XX-XY method	(ii) Female	
	of sex determination	heterogametic	
	(c) Karyotype-45	(iii) Grasshopper	
	(d) ZW-ZZ method	(iv) Female	
	of sex determination	homogametic	
	Select the correct option	from the following :	
	(1) a-ii, b-iv, c-i, d-iii	(2) a-i, b-iv, c-ii, d-iii	
	(3) a-iii, b-iv, c-i, d-ii	(4) a-iv, b-ii, c-i, d-iii	
Ans.	(3)		
14.	What will be the sequence of mRNA produced b		
	the following stretch of D	NA ?	
	3'ATGCATGCATGCATG5	5' TEMPLATE STRAND	
	5' TACGTACGTACGTAC	C3' CODING STRAND	
	(1) 3'AUGCAUGCAUGC	AUG5'	
	(2) 5'UACGUACGUACG	GUAC 3'	
	(3) 3' UACGUACGUAC	GUAC 5'	
	(4) 5' AUGCAUGCAUGC	CAUG 3'	
Ans.	(2)		

- 15. Select the **incorrect** statement regarding inbreeding
 - (1) Inbreeding helps in elimination of deleterious alleles from the population
 - (2) Inbreeding is necessary to evolve a pureline in any animal
 - (3) Continued inbreeding reduces fertility and leads to inbreeding depression
 - (4) Inbreeding depression can not be overcome by out-crossing

Ans. (4)

- **16.** A biocontrol agent to be a part of an integrated pest management should be
 - (1) Species-specific and symbiotic
 - (2) Free living and broad spectrum
 - (3) Narrow spectrum and symbiotic
 - (4) Species-specific and inactive on non-target organisms

Ans. (4)

17. Match the following enzymes with their functions :

(a) Restriction	(i) Joins the DNA
endonuclease	fragements
(b) Restriction	(ii) Extends primers
exonuclease	on genomic
	DNA template
(c) DNA ligase	(iii) Cuts DNA at specific
	position
(d) Taq polymerase	(iv) Removes
	nucleotides from
	the ends of DNA
Select the correct option	from the following :
(1) a-iii, b-i, c-iv d-ii	(2) a-iii, b-iv, c-i, d-ii

(3) a-iv, b-iii, c-i, d-ii (4) a-ii, b-iv, c-i, d-iii

Ans. (2)

- **18.** The two antibiotic resistance genes on vector pBR322 are for
 - (1) Ampicillin and Tetracycline
 - (2) Ampicillin and Chloramphenicol
 - (3) Chloramphenicol and Tetracycline
 - (4) Tetracycline and Kanamycin

Ans. (1)

- **19.** Exploitation of bioresources of a nation by multinational companies without authorization from the concerned country is referred to as-
 - (1) Bioweapon (2) Biopiracy
 - (3) Bioethics (4) Biowar

Ans. (2)

2

CODE - G1



- **20.** Carnivorous animals lions and leopards, occupy the same niche but lions predate mostly larger animals and leopards take smaller ones. This mechanism of competition is referred to as -
 - (1) Character displacement
 - (2) Altruism
 - (3) Resource partitioning
 - (4) Competitive exclusion

Ans. (3)

- **21.** Decline in the population of indian native fishes due to introduction of *Clarias gariepinus* in river Yamuna can be categoriesd as
 - (1) Co-extinction
 - (2) Habitat fragmentation
 - (3) Over exploitation
 - (4) Allen species invasion

Ans. (4)

- **22.** Match the following RNA polymerase with their transcribed products :
 - (a) RNA polymerase I (i) tRNA
 - (b) RNA polymerase II (ii) rRNA
 - (c) RNA polymerase III (iii) hnRNA
 - Select the correct option from the following :
 - (1) a-i, b-iii, c-ii (2) a-i, b-ii, c-iii
 - (3) a-ii, b-iii, c-i (4) a-iii, b-ii, c-i

Ans. (3)

- **23.** In a marriage between male with blood group A and female with blood group B, the progeny had either blood group AB or B. What could be the possible genotype of parents ?
 - (1) $I^{A_{i}}$ (Male) : $I^{B}I^{B}$ (Female)
 - (2) $I^{A}I^{A}$ (Male) : $I^{B}I^{B}$ (Female)
 - (3) I^AI^A(Male) : I^Bi (Female)
 - (4) I^Ai (Male) : I^Bi (Female)

Ans. (1)

- **24.** A population of a species invades a new area. Which of the following condition will lead to Adaptive Radiation ?
 - (1) Area with large number of habitats having very low food supply
 - (2) Area with a single type of vacant habitat
 - (3) Area with many types of vacant habitats
 - (4) Area with many habitats occupied by a large number of species

Ans. (3)

25. Identify A, B and C in the diagramatic representation of the mechanism of hormone action.



Select the correct option from the following :

- (1) A-Steroid Hormone; B-Hormone-receptor Complex, C-Protein
- (2) A-Protein Hormone, B-Receptor; C-Cyclic AMP
- (3) A-Steroid Hormone; B-Receptor, C Second Messenger
- (4) A-Protein Hormone; B-Cyclic AMP, C-Hormone-receptor Complex

Ans. (2)

- **26.** Humans have acquired immune system that produces antibodies to neutralize pathogens. Still innate immune system is present at the time of birth because it
 - (1) is very specific and uses different macrophages.
 - (2) produces memory cells for mounting fast secondary response.
 - (3) has natural killer cells which can phagocytose and destroy microbes.
 - (4) provides passive immunity.

Ans. (3)

- 27. Which of the following statements is **not** correct?
 - (1) An action potential in an axon does not move backward because the segment behind is in a refractory phase
 - (2) Depolarisation of hair cells of cochlea results in the opening of the mechanically gated potassium -ion channels.
 - (3) Rods are very sensitive and contribute to daylight vision.
 - (4) In the knee-jerk reflex, stimulus is the stretching of muscle and response is its contraction.
- Ans. (3)

28 .	Match the following join	ts with the bones involved:	34.	Match the following ge	nera with their respective	
	(1) Gliding joint	(i) Between carpal and		phylum:		
		metacarpal of thumb		(a) <i>Ophura</i>	(i) Mollusca	
	(2) Hinge joint	(ii) Between Atlas and		(b) <i>Physalia</i>	(ii) Platyhelminthes	
		Axis		(c) <i>Pinctada</i>	(iii) Echinodermata	
	(3) Pivot joint	(iii) Between the carpals		(d) <i>Planaria</i>	(iv) Coelenterata	
	(4) Saddle joint (iv) Between Humerus			Select the correct optio	n:	
	and Ulna.			(1) (a)-(iv), (b)-(i), (c)-(iii), o	1-(ii)	
	Select the correct optio	n from the following:		(2) (a)-(iii), (b)-(iv), (c)-(i), o	1-(ii)	
	(1) (a)-(iii), (b)-(iv), (c)-(ii),	d-(i)		(3) (a)-(i), (b)-(iii), (c)-(iv), d-(ii)		
	(2) (a)-(iv), (b)-(i), (c)-(ii), c	l-(iii)		(4) (a)-(iii), (b)-(iv), (c)-(ii), d-(i)		
	(3) (a)-(iv), (b)-(ii), (c)-(iii),	d-(i)	Ans.	(2)		
	(4) (a)-(i), (b)-(iii), (c)-(ii), c	l-(iv)	35.	Which of the following a	nimals are true coelomates	
Ans.	(1)			with bilateral symmetry		
29.	Which of the following of	diseases is an autoimmune		(1) Adult Echinoderms	(2) Aschelminthes	
	disorder?			(3) Platyhelminthes	(4) Annelids	
	(1) Myasthenia gravis	(2) Arthritis	Ans.	· · · ·		
	(3) Osteoporosis	(4) Gout	36.	• •	eristics generally in a pair	
Ans.		(-)		-	animals in Taxonomic Key	
30.		d work-time and reduced		are referred to as :	,	
	sleep-time disrupt the a			(1) Lead	(2) Couplet	
	(1) Thymus gland			(3) Doublet	(4) Alternate	
	(2) Pineal gland		Ans.			
	(3) Adrenal gland		37.		cell structure with its	
	(4) Posterior pituitary gl	and		characteristic feature:		
Ans.		lanu		(a) Tight junctions	(i) Cement neighbouring	
31.	· · /	, aanditiana will atimulata			cells together to form	
51.	-	conditions will stimulate			sheet	
		ase parathyroid hormone?		(b) Adhering	(ii) Transmit	
	 (1) Fall in active Vitamin (2) Fall in blood Ca⁺² left 			Junctions	information through	
	(2) Fall in block Ca^{+2} le				chemical to another	
	(4) Rise in blood Ca^{+2} l				cells	
Ans.		evels		(c) Gap junctions	(iii) Establish a barrier to	
Ans. 32.	• •	is a comment statement?			prevent leakage of	
32.	Which of the following				fluid across	
	(1) IUDs once inserted	-			epithelial cells	
		nserted by the user herself		(d) Synaptic junctions	(iv) Cytoplasmic	
		ocytosis of sperms in the			channels to	
	uterus.				facilitate	
	(4) IUDs suppress game	togenesis.			communication	
Ans.	· /				between adjacent	
33.	-	exually transmitted diseases			cells	
	do not specifically affec			Select correct option fro	om the following	
	(1) Genital warts and H	-		(1) (a)-(ii), (b)-(iv), (c)-(i), d	-(iii)	
	(2) Syphilis and Genital			(2) (a)-(iv), (b)-(ii), (c)-(i), d	-(iii)	
	(3) AIDS and Hepatitis			(3) (a)-(iii), (b)-(i), (c)-(iv), (d-(ii)	
	(4) Chlamydiasis and AIDS			(4) (a)-(iv), (b)-(iii), (c)-(i), d	1-(ii)	
Ans.	(3)		Ans.	(3)		
4 -			1			

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path to success				CODE - G1
38.	 Which of the following statements is INCORRECT? (1) Cockroaches exhibit mosaic vision with less sensitivity and more resolution. (2) A mushroom-shaped gland is present in the 6th-7th abdominal segments of male cockroach. (3) A pair of spermatheca is present in the 6th segment of female cockroach. (4) Female cockroach possesses sixteen ovarioles in the ovaries. 	43.	Match the following part function: (a) Descending limb of Henle's loop (b) Proximal Convoluted tubule (c) Ascending limb of Henle's loop	s of a nephron with their (i) Reabsorption of salts only (ii) Reabsorption of water only (iii) Conditional reabsorption of sodium ion and water
Ans. 39.	 (1) Select the correct statement. (1) Expiration occurs due to external intercostal muscles (2) Intrapulmonary pressure is lower than the atmospheric pressure during inspiration. (3) Inspiration occurs when atmospheric pressure is less than intrapulmonary pressure. (4) Expiration is initiated due to contraction of diaphragm. 	Ans. 44.	• •	 (iv) Reabsorption of ion, water and organic nutrients. a from the following : (iv) (iii) (iii) -(ii)
Ans. 40. Ans. 41. Ans. 42.	 (2) The maximum volume of air a person can breathe in after a forced expiration is known as : Expiratory Capacity Vital Capacity Inspiratory Capacity (3) Inspiratory Capacity (4) Total lung Capacity (2) All the components of the nodal tissue are autoexcitable. Why does the SA node act as the normal pacemakar? (1) SA node has the lowest rate of depolarisation. (2) SA node is the only component to generate the threshold potential. (3) Only SA node can convey the action potential to the other components. (4) SA node has the highest rate of depolarisation. 	Ans. 45. Ans. 46.	 (b) Protonephridia (ii) Annelids (c) Nephridia (iii) Amphioxus (d) Renal calculi (iv) Filtration slits Select the correct option from the following (1) (a)-(iii), (b)-(iv), (c)-(ii), d-(i) (2) (a)-(iii), (b)-(ii), (c)-(iv), d-(i) (3) (a)-(iv), (b)-(ii), (c)-(ii), d-(i) (3) (a)-(iv), (b)-(ii), (c)-(iii), d-(i) (4) (a)-(iv), (b)-(ii), (c)-(iii), d-(i) (3) Which of the following receptors are specific responsible for maintenance of balance of bod posture? (1) Basilar membrane and otoliths (2) Hair cells and organ of corti (3) Tectorial membrane and macula (4) Crista ampullaris and macula 	Column-II (i) Crystallised oxalates (ii) Annelids (iii) Amphioxus (iv) Filtration slits a from the following : I-(i) I-(i
Ans.	septum, delays the spreading of impulses to heart apex for about 0.1 sec. The delay allows.(1) blood to enter aorta.(2) the ventricles to empty completely.(3) blood to enter pulmonary arteries.(4) the atria to empty completely.	Ans.	underlined. (2) Every species should I a specific epithet. (3) Scientific names are italized. (4) Generic and specific starting with small le (4)	in Latin and should be names should be written

CODE - G1

47.		n catttle is caused by an organism		ad cow disease in catttle is caused by an organism hich has :-		Bicarpellary ovary with obliquely placed septum is seen in :-	
		tumo			(2) $Aloc$		
	(1) inert crystalline struc			(1) Brassica	(2) Aloe		
	(2) abnormally folded pr		A	(3) Solanum	(4) Sesbania		
	(3) free RNA without pr		Ans.	. ,			
	(4) free DNA without pr	otein coat	54.		common type of embryo sac in		
Ans.	• •			angiosperms?	1		
48.	Which of the following statements is correct ?				h one mitotic stage of divisions		
	(1) Lichens do not grow	-			n three sequential mitotic divisions		
	(2) Algal component of lichens is called mycobiont.			· · ·	h two sequential mitotic divisions		
		ichens is called phycobiont		· · · -	wo sequential mitotic divisions		
	(4) Lichens are not good	l pollution indicators.	Ans.	.,			
Ans.			55.		wing, identify the correct		
49.	_	column-I with habitats in			alient features of Genetic Code :-		
	column-II				-ambiguous, Overlapping		
	Column-I	Column-II		-	verlapping, Commaless		
	(a) Halophiles	(i) Hot springs			biguous, Degenerate		
	(b) Thermoacidophiles	(ii) Aquatic environment			on-overlapping, Non-ambiguous		
	(c) Methanogens	(iii) Guts of ruminants	Ans.	• •			
	(d) Cyanobacteria	(iv) Salty area	56.		perimentally proved that DNA is		
	Select the correct answer from the options given				naterial in bacteriophage ?		
	below :-			(1) Beadle and Ta	utum		
	(1) (a)-(iv), (b)-(i), (c)-(iii), (d)-(ii)			(2) Messelson and	Stahl		
	(2) (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)			(3) Hershey and C	Chase		
	(3) (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i)			(4) Jacob and Mor	nod		
	(4) (a)-(ii), (b)-(iv), (c)-(iii), (d)-(i)		Ans.	(3)			
Ans.	(1)		57.	In the process of t	transcription in Eukaryotes, the		
50.	In the dicot root the vas	cular cambium originates		RNA polymerase	I transcribes :-		
	from :-			(1) mRNA with ad	lditional processing, capping and		
	(1) Tissue located below	the phloem bundles and a		tailing			
	portion of pericycle	tissue above protoxylem.		(2) tRNA, 5 SrRN	VA and snRNAs		
	(2) Cortical region.			(3) rRNAs-28 S,	18 S and 5.8 S		
	(3) Parenchyma between endodermis and pericycle.			(4) Precursor of n	nRNA, hnRNA		
	(4) Intrafascicular and interfascicular tissue in a ring.			(3)			
Ans.	(1)		58 .	In which genetic co	ondition, each cell in the affected		
51.	Which of the following sh	nows whorled phyllotaxy?		person, has three	sex chromosomes XXY ?		
	(1) Mustard			(1) Thalassemia			
	(2) China rose			(2) Kleinfelter's Sy	ndrome		
	(3) Alstonia			(3) Phenylketonuri	ia		
	(4) Calotropis			(4) Turner's Syndro	ome		
Ans.			Ans.	(2)			
52.		ed growing grass following	59 .	What initiation and	l termination factors are involved		
	grazing is largely due to			in transcription in	Eukaryotes ?		
	(1) Lateral meristem			(1) σ and ρ , respe			
	(2) Apical meristem			(2) α and β , respe	•		
	(3) Intercalary meristem			(3) β and γ , respectively.			
	(4) Secondary meristem			(4) α and σ , respe			
Ans.			Ans.	(Bonus)	-		
-	• •						

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	"Ramachandran plot" is used to confirm the
	structure of :-
	(1) RNA (2) Proteins
	(3) Triacylglycerides (4) DNA
•	
	Which of the following is not a feature of active transport of solutes in plants ?
	(1) Occurs against concentration gradient
	(2) Non-selective
	(3) Occurs through membranes
	(4) Requires ATP
•	(2)
	Which of the following bacteria reduce nitrate in soil
	into nitrogen ?
	(1) Nitrobacter (2) Nitrococcus
	(3) Thiobacillus (4) Nitrosomonas
•	
	What will be the direction of flow of water when a
	plant cell is placed in a hypotonic solution ?(1) Water will flow in both directions
	(2) Water will flow out of the cell
	(2) Water will flow into the cell
	(4) No flow of water in any direction
	(3)
	Where is respiratory electron transport system (ETS)
	located in plants ?
	(1) Mitochondrial matrix
	(2) Outer mitochondrial membrane
	(3) Inner mitochondrial membrane
	(4) Intermembrane space
•	(3)
	In Hatch and Slack pathway, the primary $\ensuremath{\text{CO}}_2$
	acceptor is -
	(1) Oxaloacetic acid
	(2) Phosphoglyceric acid
	(3) Phosphoenol pyruvate
	(4) Rubisco
•	(3)
	Removal of shoot tips is a very useful technique to
	boost the production of tea-leaves. This is because
	$(1) \ \ {\rm Gibberellins\ prevent\ bolting\ and\ are\ inactivated}$
	(2) Auxins prevent leaf drop at early stages
	(3) Effect of auxins is removed and growth of lateral
	buds is enhanced.

(4) Gibberellins delay senescence of leaves.

Ans. (3)

Ans. (2)

60.

Ans. (4) 61. The

Ans. (3) 62. Ma

understood using

(3) Punnet square

(a) Golgi apparatus

(1) Pie diagram

Column-I

(b) Lysosomes

(c) Vacuoles

(d) Ribosomes

(1) (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i) (2) (a)-(iv), (b)-(iii), (c)-(i), (d)-(ii) (3) (a)-(iii), (b)-(ii), (c)-(iv), (d)-(i) (4) (a)-(i), (b)-(ii), (c)-(iv), (d)-(iii)

apoenzymes.

below :-

Ans. (1)

Ans. (2)

64.

Which of the following statements is correct about

Agriculture came around 50,000 years back.
 The *Dryopithecus* and *Ramapithecus* primates existing 15 million years ago, walked like men.

(4) Neanderthal men lived in Asia betweeen 1,00,000 and 40,000 years back.

The production of gametes by the parents, the formation of zygotes, the F_1 and F_2 plants, can be

(2) A pyramid diagram

(i) Synthesis of protein

excretory products

glycoproteins and

(ii) Trap waste and

(iii) Formation of

glycolipids

(iv) Digesting biomolecules

Choose the right match from options given

63. Prosthetic groups differ from co-enzymes in that :-

enzyme-catalyzed reactions.

and in which stage of the cell cycle ?

(1) they require metal ions for their activity.

(2) they (prosthetic groups) are tightly bound to

(3) their association with apoenzymes is transient.(4) they can serve as co-factors in a number of

Crossing over takes place between which chromatids

 Non-sister chromatids of non-homologous chromosomes at Zygotene stage of prophase I.
 Non-sister chromatids of homologous chromosomes at Pachytene stage of prophase I.
 Non-sister chromatids of homologous chromosomes at Zygotene stage of prophase I.

(4) Non-sister chromatids of non-homologous

chromosomes at Pachytene stage of prophase I.

(4) Wenn diagram

Column-II

the origin and evolution of men ?.

(3) *Homo habilis* probably ate meat.

Match the column I with column II

65.

Ans.

66.

Ans.

67.

Ans.

68.

Ans.

69.

Ans.

70.

Ans.

71.

CODE - G1

5.

7

NEE	T(UG)-2019 (ODI	SHA) Final Exam/20	-05-2	2019	
72.	of <i>Azotobacter</i> and il splitting light through a bacteria accumulated n (1) Violet and green lig (2) Indigo and green lig (3) Orange and yellow	ht ht	77.	that the transform(2) identify the gene is organism(3) select a suitable ve specific crop	g the non-transformants, so nants can be regenerated for a desired trait in an alien ector for transformation in a a chromosome for isolation
•	(4) Blue and red light		Ans.	-	
Ans. 73.	In order to increase th	e yield of sugarcane crop, ant growth regulators should (2) Auxins (4) Cytokinins	78. Ans.	animal species that an Which of the following such species? (1) Endemic (3) Threatened	a large number of plant and re not found anywhere else. g terms will you use to notify (2) Vulnerable (4) Keystone
Ans.	(3)		79.		g statements about ozone is
74.		n takes place in <i>Vallisneria</i> ? n submerged condition by		correct? (1) Tropospheric oz radiations.	one protects us from UV
	water			(2) Stratospheric ozo	ne is 'bad'
		ove surface of water, and y insects.		(3) Tropospheric ozo	
Ans.	pollen is carried by(4) Male flowers are ca female flowers at s	arried by water currents to	Ans. 80.	Exploration of molecu	llar, genetic and species level lucts of economic importance (2) Bioenergetics (4) Bioprospecting
			Ans.		(1) Dioprospeeling
75.		owing, both autogamy and	81.	• •	g is an innovative remedy for
	geitonogamy are preve			plastic waste?	
	(1) Wheat	(2) Papaya		(1) Burning in the ab	
Ans.	(3) Castor (2)	(4) Maize		(3) Polyblend	deep below soil surface
76.	Match the placental ty examples (column-II)	pes (column-I) with their	Ans.	• •	-
	Column-I	Column-II	82.	is not an example of	the following, the relationship commensalism?
	(a) Basal	(i) Mustard		(1) Orchid and the tre	
	(b) Axile (c) Parietal	(ii) China rose (iii) Dianthus		(2) Cattle Egret and g	grazing cattle
	(d) Free central	(iii) Diantnus (iv) Sunflower		(3) Sea Anemone and	
		nswer from the following	Ans.	(4) Female wasp and (4)	lig species
	options: (1) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i) (2) (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)		83.	• •	d is liberally irrigated for a
				-	ne, it is likely to face problem
				of:	
	(3) (a)-(iv), (b)-(ii), (c)-(i), ((4) (a)-(iii) (b)-(iv) (c)-(i)			(1) Metal toxicity	(2) Alkalinity
Ans.	(4) (a)-(iii), (b)-(iv), (c)-(i), (3)	(u)=(II)	4	(3) Acidity	(4) Salinity
8 -	\-/		Ans.	(*)	

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 Which of the following statements about methanogens is not correct? (1) They can be used to produce biogas. (2) They are found in the rumen of cattle and their excreta (3) They grow aerobically and breakdown celluloserich food. (4) They produce methane gas. (3) In mung bean, resistance to yellow mosaic, virus and powdery mildew were brought about by : (1) Mutation breeding (2) Biofortification (3) Tissue culture (4) Hybridization and selection (1) Cocca alkaloid or cocaine is obtained from: (1) Papaver somniferum (2) Atropha belladona (3) Erythroxylum coca (4) Datura (3) (3) Among the following pairs of microbes, which pair has both the microbes that can be used as biofertilizers? (1) Aspergillus and Rhizopus (3) Cyanobacteria and Rhizobium (4) Aspergillus and Cyanobacteria 	88. Ans. 89. Ans. 90. Ans.	An enzyme catalysing the removel of nucleotides from ends of DNA is: (1) DNA ligase (2) Endonuclease (3) Exonuclease (4) Protease (3) In RNAi, the genes are silenced using: (1) ds-RNA (2) ss-DNA (3) ss-RNA (4) ds-DNA
(3)		

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Ans. (3) **85**.

Ans. (1) **86**.

Ans. (3) **87**.

Ans. (3)

84.

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