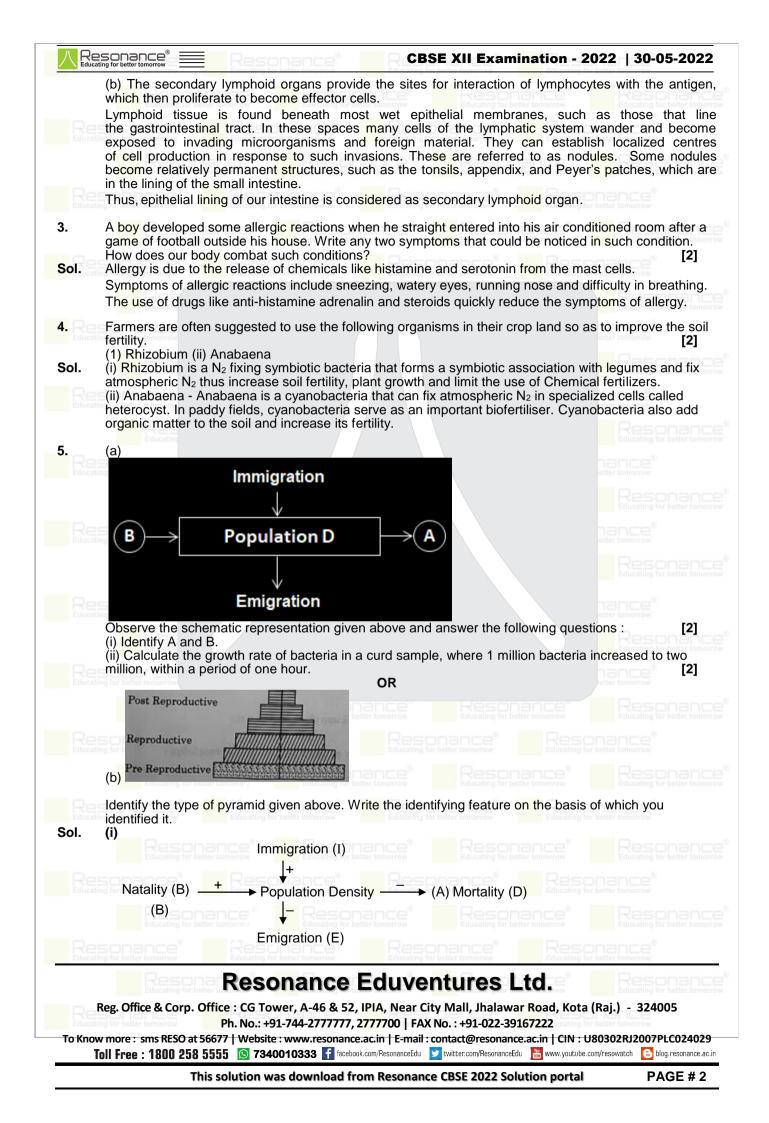
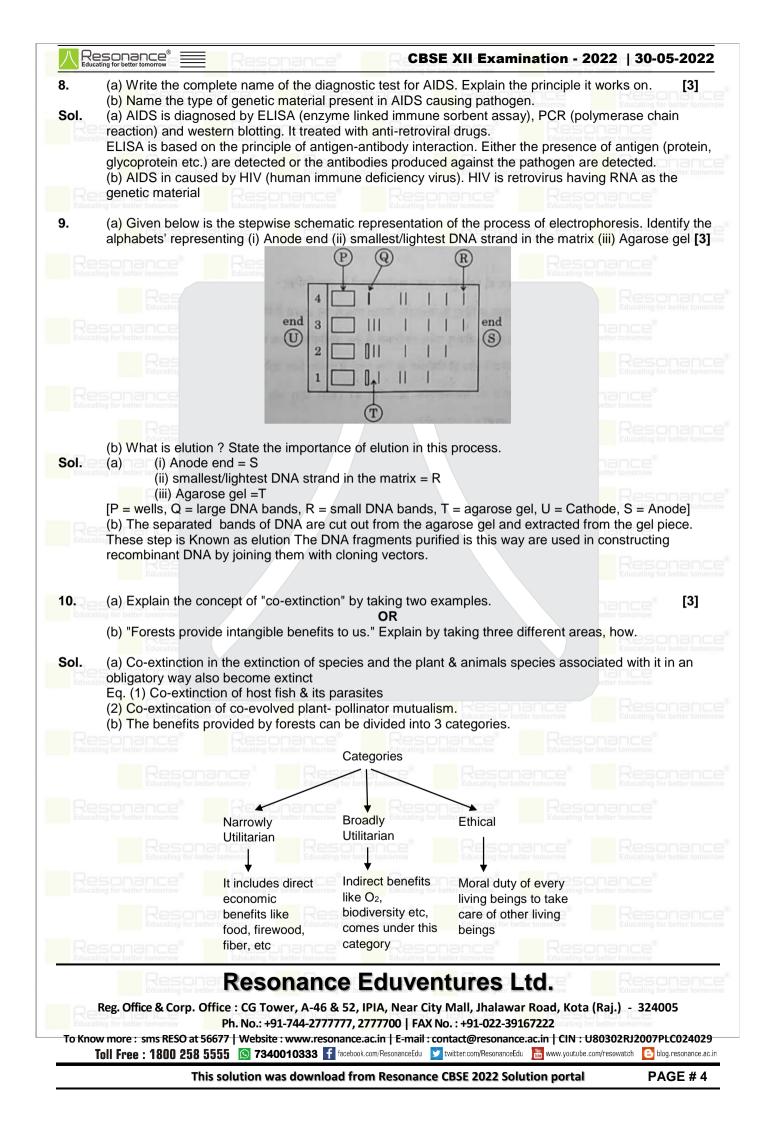


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Roll No. Candidates must write the Code on the title page of the answer-book Biology (Theory) Biology (Theory) Time allowed: 2 hours Maximum Marks: 35 • Please check that this question paper contains 12 printed pages. • O.P. Code given on the right hand side of the question paper should be written on the title page of the answer book by the candidate. • Please check that this question paper contains 13 questions. • Please write down the Serial Number of the question paper. The question paper will be distributed 10.16 am ton 10.43 am, the candidates will read the question paper only and will not any answer on the answer-book during this period. The question paper contains 13 questions. All questions are compulsory. • Please write down the Serial Number of the question the question of a marks each and Section - 1 any answer on the answer-book during this period. Section - A has 6 question of 2 marks each. Section - B has 6 questions of 3 marks each and Section - 1 case based question of 5 marks. • Wherever necessary, neat and properly labelled diagrams should be drawn. Section - A has 6 question of 2 marks each Section - B has 6 questions of 3 marks eact hand section - 1 (a the strate section of 1 marks). Section - B hat the diseases and their mode of transmission in human by (i) common round worm and (ii) fle words. Section - B hat is caused by worm (Wuchereria bancroft). The pathogens are transmited to a healthy person through the bite by the female mosquito vectors. Sol (i) Write the Scientific nam	In Candidates must write the Code on the title page of the answer-book						SET-3
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	Pre-reproducti	ve population is	s higher in these typ	e of pyramids.	
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s. Sol.	B-lymphocyte p	produce an army	phocytes in providing of proteins in respons	se to pathogen into our blo	[2] od t <mark>o li</mark> ght with them and
		(T-cell) do not pr	oduce antibodies but	help B-cell produce them.	These are responsible
	for humoral im	nunity.			
			SECTION-	B	
Educat				of infected female Anophe	eles. Trace its life cycle
Sol.		malaria in humar eles mosquito bite		nd injects sporozoites (infe	[3] ective) state with bites.
				ying within the livers cells.	
				xually in blood cells & rupt	ure the RBC which
				ponsible for chill & fever.	Resonance
				male gametocyte which ar	e taken by the mosquito
	Appendix Second Room Property and S	g & sucking bloo		a intention of monorvite	
				n intestine of mosquito. zoites which migrate into s	calivary glands of
	 mosquito. 	develops & Iom	is thousands of spord	zoites which highate into s	salivary gianus of
		nuito hites anoth	er human the sporozo	nites are injected	
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			When the mosquito bites another human,	A CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE OWNER OWNE	
			sporozoites are injected with bite.	AN A	
			nfective stages tes) escape from	=	
		gut and n to the mo	nigrate	AT A	
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		nance	Sporozoites	Parasite (sporozoites)	Resonanc
		better tomorrow	Salivary glands	reach the liver through	
		Res		blood	
		1	Mosquito Host		
			Fertilization and development take place		
			in the mosquito's gut.	The parasite reprodu	ices
		Res Education		asexually in liver cell bursting the cell and	s, DDADCA
			Sta	Human Hoet	
		Female m takes up	nosquito gametocytes	Host	
		with bloo	d meal. Gametocytes		
			Female	JParasites reproduce	
			Male	asexually in red blood cells, bursting the red	
				blood cells and causi cycles of fever and ot	ng Resonanc
			Sexual stages (gametoo develop in red blood ce	ytes) symptoms. Released lls. parasites infect new red blood cells.	
				red blood cens.	
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11.	What are cry-proteins ? With the help of a suitable example, examp	xplain how it acts as a biological
	pesticide.	cating for better tomorrow Educating for better (3) nor
Sol.	Cry proteins are to toxic or poisonous crystal proteins which is insects.	encoded by cry gene, it is toxic to certain
	Example: Biological pesticide that can be introduced in order t	o control butterfly caterpillars is the
	b <mark>acter</mark> ia <i>Bacillus thuringiensi<mark>s (of</mark>ten written as Bt) that f<mark>orm</mark>s c</i>	
	as dried spores which are mixed with water and sprayed onto	
	fruit trees, where these are eaten by the insect larvae. In the gur released (gets activated) and the larvae get killed. The bacteria	
	leave other insects unharmed. Because of the development of	
	last decade or so, the scientists have introduced B. thuringiens	
	are resistant to attack by insect pests.	
	In this way cry p <mark>rotei</mark> n of Bacillus thuringien <mark>sis a</mark> cts as biologic	al pesti <mark>cide.</mark>
12.	(a <mark>) "Fo</mark> r ethical reasons, biodiversity must be conserved." Do y	ou agree? Write you <mark>r vi</mark> ews in support o
	your answer.	acia of which it is designated as a "hot
	(b) Write the characteristic features of a specific area on the bas spot". Write any one major threat to these areas.	asis of which it is designated as a not
Sol.		species has an intrins <mark>ic v</mark> alue, even if it
	may not be of current or any economic value to us. It is our	
	beging other living organisms and pass on our biological legacy in	
	(b) Characteristic features of a specific area on the basis of whether the basis of whether the basis of whether the basis of the basis	
	 Regions with very high levels of species richness a high degree of endemiam (that is enabled application) 	
	 high degree of endemism (that is, species confined else). 	a to that region and not found anywhere
	dealing on One of the major threat to these areas is human activities a	and loss of habitat.
	SECTION-C	
	(Case Based)	
13.	(a) Read the paragraph given below and answer the questions	that follow:
10.	Enzyme Taq polymerase, is extracted from a eubacterial micro	
	SecYellowstone National Park in Montana, USA and isolated by Cl	
	successfully replaced the DNA polymerase from E.coli that was	s being used in PCR earlier and this shi
	revolutionised the PCR technique.	manage in DCD to share a Fundaia share
	(i) Taq polymerase after its discovery replaced E.coli DNA poly reasons why was the need felt for the change?	merase in PCR technique. Explain givir
	(ii) What is a primer and its importance in PCR ?	
	(iii) Write the importance of PCR as a diagnostic tool.	
	Kesonance" Resona ORE" R	
	(b) Read the following paragraph and answer the questions that	
	the "gene of interest", with an objective to open various avenue	
	pharma, agriculture etc. using different techniques, tools and p biotechnology in medicine is the gene therapy.	rocesses. One of the breakthroughs of
	(i) Name the human disease for which the gene therapy was us	sed for the first time
	(i) Explain the steps of gene therapy carried to cure the diseas	
	Why is this therapy not a permanent cure of the disease?	orrow Educating for better tomorrow
	(iii) Write the possible permanent cure of the disease by the ge	ene therapy that is in progress.
Sol.	• •	icating for better tomorrow
	(i) Enzyme Taq Polymerase is found in thermophillic bact	
	because it is thermostable enzyme which does not degrad	e at nigh temperature. It can tolerate hig
	temperature fluctuations during the PCR. (ii) Primer is a small segment of DNA that binds to a comple	mentary strand of DNA It is assential
	start the functioning of DNA polymerase enzyme of this en	, , , , , , , , , , , , , , , , , , , ,
Reduca	start the functioning of DNA polymerase enzyme of this en	corrow Educating for better tomorrow
Re	Lessonance Resonance Resonance Educating for better tomorrow Educating for better tomorrow	es Ltd.e Resonance
Re	start the functioning of DNA polymerase enzyme of this en Resonance Eduventur Reg. Office & Corp. Office : CG Tower, A-46 & 52, IPIA, Near City Mall,	

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PAGE # 5

