	MARKING SCHEME (2023-24				
	Class XII				
	Biology (Subject Code-044)				
Q. No.	Answer	Marks			
	Section - A	<u> </u>			
I	d) black pepper	I			
2	d) tapetum	I			
3	d) 7	I			
4	a) males and females, respectively	I			
5	a) 0.32	I			
6	a) random and directionless	I			
7	d) Nucleotide	I			
8	d) aa	I			
9	c) Cyclosporin A produced from Trichoderma polysporum	I			
10	d)	I			
11	b) Reduce pesticide accumulation in food chain	I			
12	d) Soil Sample C	I			
13	d) A is false but R is true	I			
14	c) A is true but R is false	I			
15	a) Both A and R are true and R is the correct explanation of A.	I			
16	a) Both A and R are true and R is the correct explanation of A.	I			
	Section – B				
17	Spermatogenesis starts at the age of puberty due to significant increase in the secretion of gonadotropin releasing hormone (GnRH). This is a hypothalamic hormone. [0.5] The increased levels of GnRH then act at the anterior pituitary gland and stimulate secretion of two secretions is hormone. [0.5]	2			
	two gonadotropins – luteinising hormone (LH) and follicle stimulating hormone (FSH).[0.5]LH acts at the Leydig cells and stimulates synthesis and secretion of androgens. Androgens, in turn, stimulate the process of spermatogenesis.[0.5]				
	FSH acts on the Sertoli cells and stimulates secretion of some factors which help in the process of spermiogenesis. [0.5]				
18	a) CTT would become CAT which codes for valine. Thus, valine would replace glutamic acid at that point. [0.5]	2			
	b) Sickle cell anaemia [0.5], the mutant haemoglobin molecule undergoes polymerization [0.5] leading to the change in the shape of the RBC from biconcave disc to elongated sickle like structure. [0.5]				

19	On administration of the first dose of the vaccine (L), the body shows a response of <b>low</b> <b>intensity</b> (X) as the immune system comes in contact with the antigenic protein of the weakened/inactivated pathogen for the first time. This is called <b>primary immune response.</b> [1] On subsequent encounter with the same antigenic protein in the second dose (M), the body elicits a <b>highly intensified</b> secondary response (Y). Because of the memory of the first contact with the antigen, the secondary immune response is <b>faster and stronger</b> , leading to more effective pathogen elimination in comparison to the primary immune response. [1]			
20	<ul> <li>a) Plate I, b-galactosidase enzyme is responsible for blue colour. Gene is inserted in the b-galactosidase site of the plasmid thereby causing insertional inactivation of the enzyme, so no blue colour is made. [1]</li> <li>b) Plate II - Gene of interest not inserted in the plasmid [0.5]</li> <li>Plate III - No plasmid [0.5]</li> </ul>	2		
21	Tertiary consumer       Large Fishes       37 kg/m²         Secondary consumer       Small Fishes       25 kg/m²         Primary consumer       Zooplankton       11 kg/m²         Primary producer       Phytoplankton       4 kg/m²         Inverted Pyramid of Biomass       OR         a)       Gross Primary Productivity is       45000 + 40367 = 85367 KJm²2y²         b)       Net production is gradually reducing as we move from producers to consumers due to heat loss/respiration /10% law.       [1]	2		
	Section – C			
22	<ul> <li>a) Sperm A [0.5]</li> <li>b) In the figure given, Sperm 'A'has come in contact with the zona pellucida layer (P) of the ovum (Q), it will induce changes in the membrane that will block the entry of additional sperms (B and C). Thus, it ensures that only one sperm can fertilise the ovum. [0.5]</li> <li>The secretions of the acrosome of sperm A will help it to enter into the cytoplasm of the ovum (Q) through the zona pellucid (P) and the plasma membrane, this will induce the</li> </ul>	3		
	<ul> <li>completion of the meiotic division of the secondary oocyte (Q). [1]</li> <li>The second meiotic division in Q being unequal will result in the formation of a second polar body and a haploid ovum. Then, the haploid nucleus of the sperm 'A' and that of the ovum (Q) will fuse together to form a diploid zygote. [1]</li> </ul>			

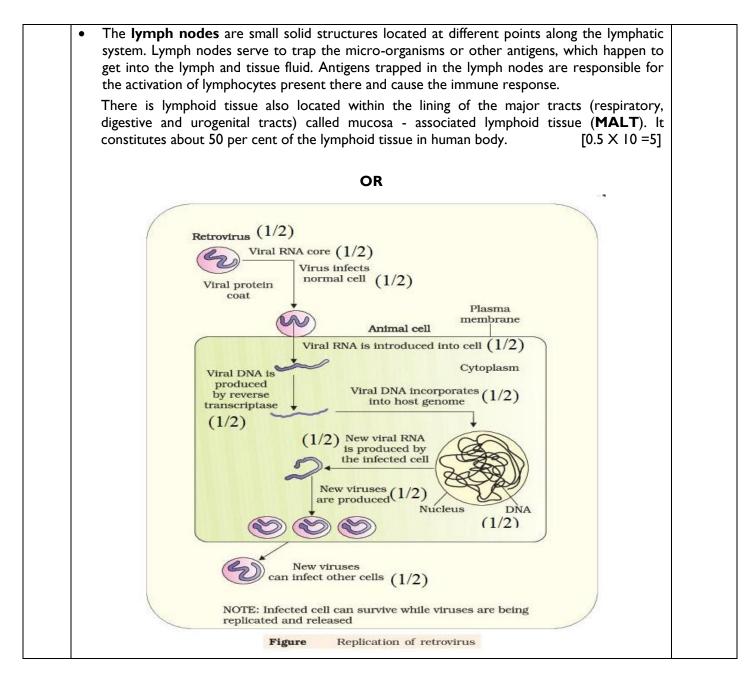
	(a) (b) (c) (d) (e) Morula (e) Morula (f) (g) Blastocyst (g) Blastocyst			
24	Fig : Fertilisation and passage of growing embryo in fallopian tube	<b>`</b>		
24	a) The embryo has Turner's Syndrome [0.5] due to aneuploidy of the sex chromosome. Such a disorder is caused due to the absence of one of the X chromosomes, i.e., 45 with XO. [0.5]	3		
	<ul> <li>b) She was advised MTP as the child will have the following problems:</li> <li>rudimentary ovaries</li> </ul>			
	· poorly developed breasts			
	lack of other secondary sexual characters			
	· delayed or no onset of the menstrual cycle and infertile. [Any 2; 2 marks]			
25	a) A -stabilising; B - directional; C - disruptive; [1.5]	3		
	b) Graph A – Stabilising			
	Graph B – Directional			
	Graph C – Disruptive La			
	Graph A Stabilising Directional Disruptive [1.5]			
26	• It will adversely affect the secondary treatment or biological treatment of sewage.	3		
	• When the aeration tank is not functional, the air will not be pumped into it.			
	• This will not allow the vigorous growth of useful aerobic microbes into flocs (masses of bacteria associated with fungal filaments to form mesh like structures).			
	• Thus, the major part of the organic matter in the effluent will not be consumed by these bacteria.			
	• The BOD (biochemical oxygen demand) of the effluent will not be reduced. BOD refers to the amount of the oxygen that would be consumed if all the organic matter in one liter of water were oxidised by bacteria.			

	• The greater the BOD of waste water, more is its polluting potential. Thus, the effluent	
	will remain polluted with high amount of organic matter and high BOD. [0.5×6=3]	
27	<ul> <li>a) Cry I Ab [0.5]</li> <li>b) The spores of Bt contain crystalline toxin which is inactive [0.5]; for this crystalline toxin protein to become active it needs alkaline pH, which is present in insect gut [0.5] The gut lining is broken down/mid gut epithelial cells become porous/swollen/cell lysis. [0.5]</li> <li>c) The Bt-toxin gene is cloned and inserted into the plant genome by recombinant</li> </ul>	3
	<b>DNA</b> technology. These genetically modified (GM) <b>plants express the Bt-toxin genes</b> and become pest-resistant. [1]	
	OR	
	a) (i) Functional enzyme lipase is given to the patient by injection.[0.5](ii) This procedure is not completely curative.[0.5]	
	b)	
	• The disease can be treated by using Gene therapy. [0.5]	
	Gene therapy is a collection of methods that allows correction of a gene defect that has been diagnosed in a child/embryo. [0.5]	
	<ul> <li>Here genes are inserted into a person's cells and tissues to treat a disease. Correction of a genetic defect involves delivery of a normal gene into the individual or embryo to take over the function of and compensate for the non-functional gene. [1]</li> </ul>	
28	Prokaryotic organisms' diversity is not given any figures by ecologist because of following reasons.	3
	• Classification and identification of vast diversity of microbes is very difficult and cannot be efficiently done with use of currently available methods.	
	• For many microorganisms, it is difficult to culture them under laboratory condition.	
	• According to current biochemical and molecular techniques, it is estimated that microbes	
	diversity can range in billions with microbes inhabiting diverse habitat on earth, with	
	enormous diversity present in air, water and soil. Hence, more advanced molecular and	
	biochemical techniques are needed to classify and identify this enormous diversity of microbes.	
	Section – D	
		4
29	a) <b>Plasmids</b> which can be used to <b>insert the geneof interest</b> from a desired organism into a host/ they <b>act as vectors to transfer gene of interest i</b> nto the host. [1] OR	4
29		4
29	host/ they <b>act as vectors to transfer gene of interest i</b> nto the host. [1] OR Ori- Origin of replication (ori) - <b>No replication will take place</b> resulting in no copies of	4
29	host/ they act as vectors to transfer gene of interest into the host. [1] OR Ori- Origin of replication (ori) - No replication will take place resulting in no copies of linked DNA.	7
29	<ul> <li>host/ they act as vectors to transfer gene of interest into the host. [1]</li> <li>OR</li> <li>Ori- Origin of replication (ori) - No replication will take place resulting in no copies of linked DNA.</li> <li>b) i) 5' ATC GTA/AAG CTT /CAT3'</li> </ul>	7
29	<ul> <li>host/ they act as vectors to transfer gene of interest into the host. [1]</li> <li>OR</li> <li>Ori- Origin of replication (ori) - No replication will take place resulting in no copies of linked DNA.</li> <li>b) i) 5' ATC GTA/AAG CTT /CAT3'</li> <li>3' TAG CAT/TTC GAA /GTA5' [1 mark for both strand ]</li> </ul>	4
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29	<ul> <li>host/ they act as vectors to transfer gene of interest into the host. [1]</li> <li>OR</li> <li>Ori- Origin of replication (ori) - No replication will take place resulting in no copies of linked DNA.</li> <li>b) i) 5' ATC GTA/AAG CTT /CAT3'</li> <li>3' TAG CAT/TTC GAA /GTA5' [1 mark for both strand ]</li> <li>OR</li> <li>5' AAG CTT3'</li> <li>3' TTC GAA5' [1 mark for both strand ]</li> </ul>	4

	-				-
		im and shows more indi hereas 60 P. caudatum in		ne of culture/ 100 <i>Paramecia aurelia</i> in 6 [2]	
	same			osely related species competing for the le competitively inferior one will be [1]	
	they co	ould avoid competition is, to avoid competitior	by choosing different	pecies compete for the same resource, times for feeding or different foraging ehavioural differences in their foraging [1]	
			OR		
	Graph	A - As both species grow	v simultaneously.		
			Section-E		
31	-	l: Normal reports of fen eferens in male.	nale, Normal sperms in t	testes, Missing connection in epididymis	5
	Assisted	<b>Reproductive Techno</b>	ology:		
	Semen will be devoid of sperms in this case. So, In-vitro fertilization (IVF) by collecting the sperms from epididymis, followed by ZIFT or IUT (Test Tube Baby) is suggested. ZIFT is transfer of zygote or early embryo up to 8 blastomeres in fallopian tube and IUT refers to transfer of embryos with more than 8 blastomeres in uterus.				
	<b>Couple 2</b> : Blockage in the fallopian tube in the female, Normal reports of male.				
	Assisted reproductive Technology:				
	Blockage of Fallopian Tube will not allow transfer of sperms to the site of fertilisation. In-vitro fertilization (IVF) followed by IUT (Test Tube Baby). It would involve transfer of embryo with more than 8 blastomeres in uterus. [1]				
	<b>Couple 3</b> : Normal reports of female, Poor semen parameters in terms of count, motility and morphology in male partner				
	Assisted Reproductive Technology:				
	· ·		· · ·	directly injected into the ovum. Artificial poor characteristic or low sperm count.	
			<i>.</i>	[1]	
	-		n female, Normal reports	s in male	
		Reproductive Techno			
	In-vitro-fertilization (IVF) by selection of normal blastocysts from ovary followed by Zygote intra- fallopian transfer involving transfer of zygote or early embryos up to 8 blastomeres (ZIFT) or transfer of embryo with more than 8 blastomeres in the uterus (IUT). [1]				
	<b>Couple 5</b> : Poor ovarian reserve in female, morphologically abnormal sperms in male partner.				
	Assisted Reproductive Technology:				
		<i>,</i> , , , ,		rmal sperms will be injected into the	
	selected blastocyst. Intracytoplasmic sperm injection (ICSI) procedure is used mainly when sperms have poor characteristic or low sperm count. [1]				
			OR	[']	
	Situatio n No.	Requirement of contraceptive for-	Name of contraceptive device	Mode of action	

	I	blocking the entry of sperms through cervix	Diaphragms/ cervical caps/ vaults	Cover the cervix during coitus		
	2	spacing between children	Cu or hormone releasing IUDs such as Cu T/Cu7/ Multiload 375/ Progestasert/LNG 20	Cu ions from Cu containing IUDs increase phagocytosis of sperms within uterus, suppress sperm motility and fertilizing capacity/ hormone releasing IUDs make uterus unsuitable for implantation		
	3	effective emergency contraceptive	Pills containing Progestogens or progestogen-estrogen combination or IUDs within 72 hours of coitus	Pills inhibit ovulation and implantation as well as alter the quality of cervical mucus to prevent the entry of sperms/IUDs - Cu ions increase phagocytosis of sperms within uterus, suppress sperm motility and fertilizing capacity/ hormone releasing IUDs make uterus unsuitable for implantation		
	4	terminal method to prevent any more pregnancy in female	Tubectomy	Block gamete transport and prevent conception.		
	5	sterilization in male	Vasectomy	Blocks sperm transport.		
				[0.5 × 10 =5]		
32	<ul> <li>a) 3'- TA TEMPI</li> <li>b) i. <u>In a</u></li> <li>5'AI</li> <li>ii. <u>In I</u></li> <li>5'mC</li> <li>c) 9 amir</li> </ul>	AC TGG CAT AAA A LATE 'AUG ACC GUA UUU <u>bacterium</u> UG ACC GUA UUU UC <u>humans</u> GpppAUG ACC UUU UC	AGA CAT CAC GGG U UCU GUA GUG CCO CU GUA GUG CCC GU CU GUG CCC CUU CA	T CAG GCA TAA—3'= CODING G CAT GAA GTC CGT ATT5'= [I mark] C GUA CUU CAG GCA UAA3' [I mark] JA CUU CAG GCA UAA3' [I mark] MG GCA UAA- Poly A tail3' [I mark] terminator codon and does not code for [I mark]	5	
	a) Codor	minance	ÖK	[0.5]		
	<ul> <li>b) Codominance is a condition in which two different alleles for a genetic trait are expressed. Individuals receive one version of a gene, called an allele, from each parent. [0.5]</li> </ul>					
			•	as 'RR' and pure breeding white coated		

		Paren	ts: RR (Red)	X rr (White)		
		Game		r		
			R	r		
		R	RR Red coat	Rr Redcoat		
		r	<mark>Rr</mark> Red coat	<mark>rr</mark> White coat		
	FIgeneration- 3:1       [2]         ii) If the red and white coated cattles produce pink colour on a cross then, they exhibit incomplete dominance in the inheritance of coat colour due to which they produce pink coloured coat upon hybridisation.       If pure breeding red coated cattles are represented as 'RR' and pure breeding white coated as 'rr', then the pink coated cattles are 'Rr'.         A cross between 'RR' and 'rr' would produce pink coated cattles (Rr) and white coated cattle (rr) in the ratio of I :2: I         Parents:       RR (Red) X rr (White)         Gametes:       R					
			R	r		
		R	RR Red coat	Rr Pink coat		
		r	Rr Pink <mark>coat</mark>	rr <mark>(</mark> (White)		
			FI Generation	n- 1:2:1	[2]	
33	of	lymphc	ocytes occur.	-	nere origin and/or maturation and proliferation	5
	<ul> <li>The primary lymphoid organs are bone marrow and thymus where immature lymphocytes differentiate into antigen-sensitive lymphocytes.</li> <li>After maturation the lymphocytes migrate to secondary lymphoid organs like spleen, lymph nodes, tonsils, Peyer's patches of small intestine and appendix.</li> <li>The secondary lymphoid organs provide the sites for interaction of lymphocytes with the antigen, which then proliferate to become effector cells.</li> <li>The bone marrow is the main lymphoid organ where all blood cells including lymphocytes</li> </ul>					
	are produced.					
	• Bc	oth <b>bor</b>		<b>thymus</b> provide	heart and beneath the breastbone. micro-environments for the development and	
			, , ,		nainly contains lymphocytes and phagocytes.	
			a filter of the bl rvoir of erythroc	/	od-borne micro - organisms. Spleen also has a	



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