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12th Biology stydy material English Medium

2022

I.CH	ECT: BIOLOGY				
				MARK :70	
		BIO-BOTANY			
1	OOSE THE CORRE	ECT ANSWER.		8x1=8	
1.	Size of pollen grain in	n <i>Myosotis</i>			
	a) 10 micrometer	b) 20 micrometer			
	c) 200 micrometer	d) 2000 micrometer			
2.	In majority of plants p	pollen is liberated at			
	a) 1 celled stage	b) 2 celled stage	c) 3 celled stage	d) 4 celled stage	
3.	Assertion (A): Gamma rays are generally use to induce mutation in wheat varieti				
	Reason (R): Because they carry lower energy to non-ionize electrons from atom				
	a) A is correct. R is co	orrect explanation of	A		
	b) A is correct. R is n	ot correct explanation	n of A		
	c) A is correct. R is w	rong explanation of A	A		
	d) A and R is wrong	1			
4.	 Statement A : Cattle do not graze on weeds of <i>Calotropis</i>. Statement B : <i>Calotropis</i> have thorns and spines, as defense against herbivores. 				
		•	spines, as defense aga	mst herdivores.	
	a) Both statements A and B are incorrect.b) Statement A is correct but statement B is incorrect.				
	c) Both statements A and B are correct but statement B is not the correct explanation				
	of statement A.		is statement is is not th	e concer explanati	
		and B are correct and	d statement B is the con	rrect explanation of	
	statement A.				
5.		•	highest primary produ	ctivity?	
	a) Pond ecosystem	b) Lake ecos	•		
	c) Grassland ecosyste		•		
6.	The active principle t		-		
7		rcuma c) Marijuana	• • •		
1.	Assertion: Turmeric f	-			
	Reason: Curcumin is a) Assertion is correct	-	c) Both are correct		
	b) Assertion is wrong	•	d) Both are wrong		
8.	Pond is a type of	,, CONCENTRY CONTENT	<i>., _</i>		
	a) forest ecosystem	b) grassland	ecosystem		
	c) marine ecosystem	d) fresh wate	•		
II. An	swer any Four of th	ne following questi	on	4x2=8	
9.	What are clones?				
	Distinguish mound la				
11.	'Green algae are not least one reason.	likely to be found in	the deepest strata of	the ocean'. Give at	

Kindly send me your questions and answerkeys to us : Padasalai.net@gmail.com

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2x5 = 10

8x1=8

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- 12. Productivity of profundal zone will be low. Why?
- 13. Give an account of active principle and medicinal values of any two plants you have studied.
- 14. Name the humors that are responsible for the health of human beings.
- **III.** Answer any Three of the following (Q.NO :19 Compulsory) 3x3=9
 - 15. What is polyembryony. How it can commercially exploited.
 - 16. Draw the diagram of different types of aneuploidy.
 - 17. Write the salient features of Sutton and Boveri concept.
 - 18. What is co evolution?
 - 19. Generally human activities are against to the ecosystem, where as you a student how will you help to protect ecosystem?

IV. Answer the following question

20. Enumerate the characteristic features of Entomophilous flowers (OR) Explain the mechanism of crossing over.

21. A)What is soil profile? Explain the characters of different soil horizons. (OR)

b) I)Which is called as the "King of Bitters"? Mention their medicinal importance. ii)What are psychoactive drugs? Add a note Marijuana and Opium

BIO-ZOOLOGY

I. CHOOSE THE CORRECT ANSWER.

1. ZW-ZZ system of sex determination occurs in a) Fishes b) Reptiles c) Birds d) All of these 2. Females with Turners' syndrome have a) Small uterus b) Rudimentary ovaries c) Underdeveloped breasts d) All of these 3. A mRNA molecule is produced by a) Replication b) Transcription c) Duplication d) Translation 4. The Neanderthal man had the brain capacity of a) 650 – 800cc b) 1200cc c) 900cc d) 1400cc 5. The sporozoites of *Plasmodium vivax* are formed from -----a) Gametocytes b) Sporoblasts c) Oocysts d) Spores 6. B cells that produce and release large amounts of antibody are called b) Basophils c) Plasma cells a) Memory cells d) killer cells 7. ELISA is mainly used for a) Detection of mutations b) Detection of pathogens c) Selecting animals having desired traits d) Selecting plants having desired traits 8. Dolly, the sheep was obtained by a technique known as a) Cloning by gene transfer b) Cloning without the help of gametes c) Cloning by tissue culture of somatic cells d) Cloning by nuclear transfer 4x2=89. Mention the symptoms of Phenylketonuria.

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B. BALAJI ., M.A., M.Sc., M.Phil., B.Ed.,

mobile : 9791055845

E-Mail: biobalaji2020@gmail.com

II. Answer any Four of the following question

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 10. Why the human genome project is called a meg 11. How does Neanderthal man differ from the mo 12. Name and explain the type of barrierswhich inv 13. List the common withdrawal symptoms of drug 14. What are transgenic animals? Give examples. III. Answer any Three of the following (Q.NO) 	odern man in appearance? volve macrophages. gs and alcohol abuse.
 15. Differentiate Intersexes from Supersexes. 16. State any three goals of the human genome proposed for the following the second s	characters? How? nse. Justify.
 20. Explain the genetic basis of ABO blood groupi Explain the formation of a nucleosome. 21. Explain the three level of impact of extinction of Explain how recombinant Insulin can be produced 	of species (OR)