First Revision Test 2024 12 Biology

Time: 1.30 Bio Botany Mark: 70

Part - A

. Answer a	ll the c	uestions.
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8X1=8

- 1. Identify the incorrect pair
 - a) sporopollenin exine of pollen grain
- b) tapetum nutritive tissue for developing microspores
- c) Nucellus nutritive tissue for developing embryo d) obturator directs the pollen tube into micropyle
- Which of the following sentences are correct? 2.
 - The offspring exhibit only parental combinations due to incomplete linkage
 - 2. The linked genes exhibit some crossing over in complete linkage
 - 3. The separation of two linked genes are possible in incomplete linkage
 - 4. Crossing over is absent in complete linkage

a) 1 and 2

c) 3 and 4

d) 1 and 4

3. Match the following:

	Column A		Column B
1	Exonuclease	a	add or remove phosphate
2	Endonuclease	b	binding the DNA fragments
3	Alkaline Phosphatase	С	cut the DNA at terminus
4	Ligase	d	cut the DNA at middle

	1	2	3	4
а	а	b	C	d
b	С	d	ь	a
c	a	C	b	d
d	-	rd	а	h

- 4. Cryopreservation means it is a process to preserve plant cells, tissues or organs
 - a) at very low temperature by using ether.
- b) at very high temperature by using liquid nitrogen
- c) at very low temperature of -196 by using liquid nitrogen d) at very low temperature by using liquid nitrogen
- Example For Eurythermal organism. .
 - a) Terrestrial Angiosperms
- b) Terrestrial Gymnosperms C) Marine Angiosperms d) Marine Gymnosperms
- Which one is in descending order of a food chain
 - a) Producers → Secondary consumers → Primary consumers → Terhary consumers
 - b) Tertiary consumers → Primary consumers → Secondary consumers → Producers
 - c) Tertiary consumers → Secondary consumers → Primary consumers → Producers
 - d) Tertiary consumers → Producers → Primary consumers → Secondary consumers
- One of the chief reasons among the following for the depletion in the number of species making endangered is 7. a) over hunting and poaching b) green house effect c) competition and predation d) habitat destruction
- 8. Bedsores and infected wounds are cured by
 - a) Acalypha

b) Cissus

c) Ocimum

d) Phyllantus

Part - B

II. Answer any Four questions.

- A detached leaf of Bryophyllum produces new plants. How? 9.
- 10. What are multiple alleles?
- How will you identify a vectors? 11.
- Name of the food chain which is generally present in all type of ecosystem. Explain and write their significance. 12. 13.
- What is entomo pathogenic fungus to be control damping off disease of which plant?
- 14. What is pseudo cereal? Give an example.

Part - C

III. Answer any Three questions. Question Number 19 is compulsory.

3X3 = 9

2X5 = 10

4X2 = 8

- What are the reasons for Mendel's successes in his breeding experiment?
- Is their any possibilities to transfer a suitable desirable gene to host plant without vector? Justify your answer. 16.
- What is mutualism? Mention any two examples where the organisms involved are commercially exploited in modern 17. 18.
- Discuss the gross primary productivity is more efficient than net primary productivity.
- How are microbial innoculants used to increase the soil fertility?

Part - D

IV. Answer all the questions.

20.

Write short note on Heterostyly [or] A)

Mention the name of man-made cereal. How it is formed? B)

- How will you avoid the growing of microbes in nutrient medium during culture process? What are the techniques 21 A)
 - If a person drinks a cup of coffee daily it will help him for his health. Is this correct? If it is correct, list out the 8)

Bio - Zoology Part - A

I	Choose the best answer.		8	X 1 = 8
1.	The male homologue of the female clitor			
		urethra	d) testis	
2.	Multiload 375 is a	interestant and action		
	u copp	intrauterine device		
	C/ 1101111	non - medicated de		parental
3.	Which of the following phenotypes in combination A X B?	the progeny are po	ssible for the	parentai
	a) A and B only b) A, B and AB only c)	AB only	d) A.BI AB and	0
4	Which of the following is the correct sequences			
4.	dogma?			
	a) Transcription, Translation, Replication	b) Transcription,	Replication, Tr	anslation
	c) Duplication, Translation, Transcription	d) Replication, Tra	anscription, Tra	inslation
5.	The wings of birds and butterflies is an e	example of		
	a) adaptive radiation b) Convergent evoluti	on	
	,) variation		
6.	The pupose of biological treatment of w	aste water is to		
	a) reduce BOD b) increase BOD c) redu	ice sedimentation d) increase sedir	nentation
7.	refers to a stem cell that	has the potential to	differentiate in	ito any of
	the three germ layers.		6	
	d/ locipoterie) b/ pierip) multipotency	d) oligopoten	су
8.	Predation and parasitism are which type	of interactions?	٠, ٧, ١	
	a) (+, +) b) (+, 0)) (-, -)	d) (+, -)	
	Part	- B		4 X 2 = 8
п	Answer any four questions.			4 / 2 - 0
9.	What is lactational amenorrhoea?			
10.	State Fisher and Race hypothesis.			
11.	Differentiate nucleotide and nucleoside.			
12.	Define antibiotics.	2		
13.	What do you mean by carrying capacity	f		
14.	What are called Hotspots?	- C		
				3 X 3 = 9
m	Answer any three questions. Q.No. 1 State the difference between identical a	and Fraternal twins.		
15.	Write down the applications of DNA fing	er printing technique	e.	
16.	Mention any three advantages and disa	dvantages of animal	cloning.	
17.	Anatomical barriers serve as innate imm	unity Justify.		
18.	Anatomical partiers serve as inflate inflate	dility. Justiny.		
19.	Briefly describe about microbial fuel cell			
73.7	Answer the following question.			2 X 5 = 10
IV	a) What is syngamy? Explain the kinds of	of syngamy with exa	mple. (OR)	
20.	b) Trace the evolution of man.		4	
21.	y the ways of that help to prev	ent drug and alcoho	ol abuse. (OR)	
21,	b) What are the effects of air pollution	on? Write about the	Control meas	uics of all
	pollution.		12 Biology	PAGE - 1