In The Name Of Allah

AMEER TUITION CENTRE

KAYALPATTANAM - 628 204.

MODEL – II & PREPARATORY PUBLIC EXAMINATION PART – III – BOILOGY

Time Allowed:	3.00 Hours		Maximum Marks : 70	
Note: Candidate	of fairness, inform the (2) Use Black or Blue		draw diagrams.	
		I BIO – BOTANY Marks : 35)		
	(1	Marks . 55)		
2. Cl	nswer all the question hoose the most approp	ECTION – A riate answer from the giv d the corresponding answer		
	X possesses small flow t for pollination would		and versatile anther. Th	
a) 1856 - 1 3. Restriction end a. Not alway b. Essentian c. Nuclease d. both b at 4. Arrange the con a) Individu b) Landscan c) commun.	zymes are ays required in genetic al tools in genetic engines that cleave DNA at s and c orrect sequence of ecolo	engineering leering pecific sites logical hierarchy starting the site of the starting starting the site of the starting starting start	from lower to higher level	
5. Ecosystem cor	nsists of			
a) decompo	osers b) producers	c) consumers	d) all of the above	
cancer?		phere can lead to an incr		
a) Ammon	ia b) Methane	c) Nitrous oxide	d) Ozone	

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- 7. Importing better varieties and plants from outside and acclimatising them to local environment is called
 - a) cloning
- b) heterosis
- c) selection
- d) introduction

- 8. Tectona grandis is coming under family
 - a) Lamiaceae
- b) Fabaceae
- c) Dipterocaipaceae
- e) Ebenaceae

SECTION - B

Answer **any four** from the following questions:

 $4 \times 2 = 8$

- 9. What are clones?
- 10. Name the chemicals used in gene transfer.
- 11. What is haplodiploidy?
- 12. Give four examples of plants cultivated in commercial agroforestry.
- 13. Differentiate primary introduction from secondary introduction.
- 14. Write the cosmetic uses of Aloe.

SECTION - C

Answer any three of the following questions. Question No.19 is Compulsory. $3 \times 3 = 9$

- 15. List out the functions of tapetum.
- 16. Write the advantages and disadvantages of Bt cotton.
- 17. What is co evolution?
- 18. What do you mean Embryoids? Write its application.
- 19. Discuss which wood is better for making furniture.

SECTION - D

Answer all the question:

 $2 \times 5 = 10$

20. (a) Bring out the inheritance of chloroplast gene with an example.

OR

- (b) Mention the application of Biotechnology.
- 21. (a) Enumerate the anatomical adaptations of xerophytes.

OR

(b) Write the economic importance of rice.

PART - II Bio - Zoology

(Marks: 35)

SECTION - A

Note :		8 x 1 = 8 iate answer from the given four alternative and the corresponding answers.
1. which	type of parthenogenesis are on	ly males produced?
•	Arrhenotoky	b) Thelytoky
c) <i>I</i>	Amphitoky	d) Both a and b
2. Colost:	rum is rich in	
	Ig E b. Ig A	c. Ig D d. Ig M
trichon	moniasis?	ding HIV, hepatitis B, gonorrhoea and
` '	Gonorrhoea is a STD whereas	
` ,		se whereas others are bacterial.
` '	HIV is a pathogen whereas other Hepatitis B is eradicated compa	
(u)	Trepatitis B is cradicated comp.	ictery whereas outlers are not.
	VA molecule is produced by	
•	Replication	b) Transcription
c) I	Duplication	d) Translation
5. The ag	ge of fossils can be determined l	OV
_	electron microscope	b) weighing the fossils
c) (carbon dating	d) analysis of bones
	e the correctly match pair.	
a) Amphetamines - Stimulant	
b) LSD - Narcotic	
c)	Heroin - Psychotropic	
d) Benzodiazepine - Pain killer	
7. The pu	arpose of biological treatment of	f waste water is to
7	Reduce BOD	b) Increase BOD
c) I	Reduce sedimentation	d) Increase sedimentation
8. In the	E-waste generated by the Mobi	le Phones, which among the following metal is
most a	bundant?	
•	Copper	b) Silver
c) I	Palladium	d) Gold
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SECTION - B

Answer **any four** from the following questions:

 $4 \times 2 = 8$

- 9. Why is the offspring formed by asexual reproduction referred as a clone?
- 10. Give reasons: Genetic code is 'universal'.
- 11. Differentiate between divergent evolution and convergent evolution with one example.
- 12. Differentiate Natality and Mortality.
- 13. List the advantages of biogas plants in rural areas.
- 14. Discuss the role of an individual to reduce environmental pollution.

SECTION - C

Answer any three of the following questions. Question No.19 is Compulsory. $3 \times 3 = 9$

- 15. What is inhibin? State its functions.
- 16. Mention the symptoms of Down's syndrome.
- 17. Differentiate between Tundra and Taiga Biomes.
- 18. What is Red data book? Mention it purposes.
- 19. Draw a labeled sketch of a Structure of HIV

SECTION - D

Answer all the question:

 $2 \times 5 = 10$

- 20. (a) Give a schematic representation of spermatogenesis and oogenesis in humans.
 - (b) HGP is the windows for treatment of various genetic disorders. Justify the statement.
- 21. (a) What is vaccine? What are its types?

OR

(b) Write a note on i) Protected areas, ii) Wild Life Sanctuaries.

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