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Rampet - DISE

## FIRST REVISION TEST - 2023 Standard - XII

Time : 3.00 hrs

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BIOLOGY BIO-BOTANY Marks: 70 MARKS: 35

Section - A 8×1=8 I. Choose the correct answer:-1) First cell of male gametophyte in angiosperm is a) Primary endosperm nucleus b) nucleus d) microspore c) megaspore 2) Fruitcolour in squash is an example of b) complementary genes a) inhibitory genes d) recessive epistasis c) dominant epistasis 3) Changing the codon AGC to AGA represents this type of mutation. d) Missense c) Nonsense a) deletion b) Frameshift 4) Which of the following one is used as a biosensor. b) Vector c) bioreactor d) Electrophoresis a) Electroporation 5) The prevention of large scale loss of biological interity d) Biopatent c) Bioethics b) Biosafety a) Biofuel 6) Sticky gends of Boerhaavia and cleome support c) Zoochory d) Anemochory b) Autochory a) Hydrochory 7) Which of the following is not a sedimentary cycle. c) Phosphorus d) Nitrogen a) Calcium b) Sulphur 8) The plants which are grown in Silivpasture system are b) Clitoria and begonia a) Teak & Sandal d) Sesbania and Acacia c) Solenum and Crotalaria Section - B 4×2=8 II. Answer any four questions:-9) What is heterois? 10) Which is called as King of bitters? 11) What is endothelium? 12) What is meant by Cytoplasmic inheritance? 13) What is genemapping? Mention its uses. 14) What do you know about the word PBR 322. Section - C III. Answer any three questions. (Q.No.19 compulsory):-3×3=9 15) Give an account on Cryopreservation? 16) What is Vivipary? Name a plant group which exhibit Vivipary. 17) Construct the Food chain with the following data:-Hawk, Plants, Frog, Snake, Grasshopper 18) Explain Carbon Sequestration (CCS) 19) Differentiate Primary introduction from Secondary introduction. Section - D 2×5=10 IV. Answer the following questions:-20) With suitable diagram explain the structure of Ovule. [or]

Explain dominant epistasis with an example.
21) Eneumurate the anatomical adaptations of xerophytes. [or]
Generally human activities are against to the ecosystem. Whereas you a student. How will you help to protect the ecosystem.

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

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		(2) XII BIOLOGY
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		BIO-ZOOLOGY 8×1=8 Section - I
		an an antipate answer from the
	i) Ans	four alternatives and write the option code and the corresponding answer:
	given	four alternatives and high right with autination due to habitat destruction
	1)	Which one of the following are at high hist example
		a) Amphibians b) Birds c) Mammals d) Commodernia
	2)	a) Amphibians b) Birds c) Mammals d) Lorecombinant Why Saccharomyes cerevisiae is more suitable for production of recombinant
		interferon than E.coli? a) E.coli does not possess the machinery for glycosylation of proteins
		<ul> <li>a) E.coli does not possess the machinery for grocordation of protoins</li> <li>b) E.coli cannot be used in bio fermentor</li> </ul>
		c) E coli does not have suitable plasmic for the production of proteins
		d) E.coli is not easily available for the production of proteins.
	2)	ELISA is mainly used for
	3)	a) Selecting animals having desired traits b) Detection of mutations
		c) Detection of pathogens d) Selecting plants having desired traits
		The mature sperms are stored in the
		a) Epididymis b) Seminiferous tubules
		c) Seminal vesicle d) Vas deferens
	5)	A mRNA molecule is produced by
		a) Duplication b) Replication c) Translation d) Transcription
	6)	Which period was called "Age of fishes"?
-		a) Devonian b) Permian c) Ordovician d) Triassic
	7)	Meselson and Stahl's experiment proved
	,	a) Transduction b) Transformation
		c) DNA is the genetic material d) Semi - conservative nature of DNA Replication
	8)	Competition between species leads to
		a) Amensalism b) Extinction c) Symbiosis d) Mutation
·		Section - B
		ote: Answer any four of the following questions:- 4×2=8
		What is Surrogacy?
		Write the cause of Down's Syndrome.
		Who disproved Lamarck's theory of acquired characters? How?
		Write any two differences between active and passive immunity.
		Which is refferred to as Industrial alcohol? Why?
	14)	What does gene therapy mean?
		Section - C
	III. NO	ote: Answer any three of the following questions. uestion number 19 is compulsory:- 3×3=9
ţ.	10)	What is Aminocentesis? Why a statutory ban is imposed on this technique? State the name of an immunosuppressant used in organ transplantation is
	10)	produced from the fungus Trichoderma polysporum and state its uses.
	17)	Differentiate natality from Mortality?
		Write about gene banks.
		In the XY chromosomal system sex determination, males have only one X Chromosome,
	13)	whereas female have two, How does the organism compensate for this
,		dosage differences between the sexes?
		Section - D
	IV Not	
	20)	a) Explain the structure of Human Outum with a next labelled diagram for
	20)	<ul> <li>a) Explain the structure of Human Ovum with a neat labelled diagram. [or]</li> <li>b) Write the salient features Human Genome Project.</li> </ul>
	21)	
		<ul> <li>a) Explain the structure of Immunoglobulin with suitable diagram. [or]</li> <li>b) Write about the effects of chemicals used in the field of Agriculture.</li> </ul>
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## Kindly send me your questions and answerkeys to us : Padasalai.Net@gmail.com