Virudhunagar District Common Second Revision Test - 2025



Standard 12

Time Allowed: 3.00 Hours	Standard 12	Maximum Marks: 70
J.vo Hours	BIOLOGY	
	PART - I [BIO-BOTANY] Section - 1	Marks: 35
Note: i) Answer all the	questions	8×1=8
ii) Choose the mo	st appropriate answer from	the given four answer
aiternatives ar	ld Write the ontion code and	the corresponding.
Thiporning better v	arieties and plants from outside	and acclimatising them to
iocal environment	is called:	
a) Cloning	b) Heterosis c) Selecti	on d) Introduction
 Find the mismate a) Ti-plasmid 	cn pair:	
b) Plasmid		15
c) pBR322	E.ColiReconstructed plasmid	
d) Transfection	- Vines	
3) Which of the give	n plant produces cardiac glycos	sides?
a) Acacia	b) Calotropis c) Nepen	thes d) Utricularia
4) Match the follow		
	zation - i) Pollengrain	
II. Androecium	- ii) Antherwall	
III. Male gametop		
IV. Primary pariet		
a) I-(iv), II-(i), I	II-(ii), IV-(iii) b) I-(iii),	II-(iv), III-(i), IV-(ii)
c) I-(iii), II-(iv),	III-(ii), IV-(i) d) I-(iii),	II-(i), III-(iv), IV-(ii)
5) With respect to E	ichhornia -	ear and is soon growing in
Statement A :	It drains off oxygen from wat	ter and is seen growing in
Statement B	standing water. It is an indigenous species o	four country.
a) Statement A	is correct and Statement B is w	rong.
	ent A and B are correct.	
	is wrong and Statement B is co	orrect.
d) Both Stateme	ent A and B are wrong.	
6) New world speci	es of cotton	
a) Gossipium arb	oretum b) G.her	
c) Both a and b	d) G.bar	badense
7) Which of the foll	owing ecosystem has the higher	st primary productivity?
a) Pond ecosyst		ecosystem st ecosystem
c) Grassland eco	,5,55	st ecosystem
8) Dwarfing gene o	b) Atomita 1 c) Norin	d) Pelita 2
a) Pal 1	Section - 2	
Answer any four of the		4×2=8
What is Co-evol	ution?	
• 10) What are the ma	aterials used to grow microorgar	nism like spirulina?
11) What is SLF?		
12) Define Partheno	carpy.	
12) Dyramid of ener	o is always upright. Give reasor	ıs.
14) Differentiate bio	-medicines and botanical medic	cines.
	Section - 3	
Answer any three of the	e following questions: (Q.No.	19 is compulsory) 3×3=9
15) What is meant	hy cytoplasmic inneritance:	
ACT What are the henefits of adroforesty!		
471 What ic thorma	i stratification? Mendon dien v	(hes:
1 2 - 1 - 1 - 1 - 1 - 1	the ctructure of alcol seed.	
19) What is bioreme	ediation? Give some examples o	Diorentesiación

Section - 4 Answer all the questions: 20) a) Describe dominant epistasis with an example. 2×5=10 b) Explain the different mode of entry of pollen tube into the ovule. (OR) 21) a) What are psychoactive drugs? Add a note Marijuana and Opium? (OR) b) What are the advantages of seed dispersal? PART - II [BIO-ZOOLOGY] Marks: 35 Section - A Answer all the questions: 8×1=8 Offsprings produced by asexual reproduction are genetically 1) Assertion : identical to the parent. Asexual reproduction involves only mitosis and no meiosis. a) If both A and R are true and R is correct explanation for A. b) If both A and R are true but R is not the correct explanation for A. c) If A is true but R is false. d) If both A and R are false. 2) Mammalian egg is a) Mesolecithal and non cleidoic b) Microlecithal and non cleidoic . c) Alecithal and non cleidoic d) Alecithal and cleidoic 3) The phenomenon of "Industrial Melanism" demonstrates a) Natural selection b) Induced mutation c) Reproductive isolation d) Geographical isolation 4) Match and choose the correct sequence: I. Acetic acid a) Lactobacillus II. Butyric acid b) Acetobacter aceti III. Citric acid - c) Clostridium butyricum - d) Aspergillus niger IV. Lactic acid d) Aspergillus niger a) I-d, II-c, III-a, IV-b b) I-b, II-c, III-d, IV-a c) I-c, II-d, III-a, IV-b d) I-b, II-d, III-c, IV-a 5) Reptiles and insects such as chameleons and stick insects show which type of adaptation? a) Conformers b) Regulate c) Crypsis and Mimicry d) Migrate 6) These symbols indicates respectively a) Recessive parent, Monozygotic twins b) Dominant parent, Dizygotic twins c) Sex unspecified, Dizygotic twins d) Sex unspecified, Monozygotic twins 7) Which of the following forests is known as the lungs of the planet earth? a) Tundra forest b) Rain forest of north east India c) Taiga forest d) Amazon rain forest 8) Which among the following always decreases in a Food chain across tropic levels? a) Number b) Accumulated chemicals c) Energy Section - B Answer any four of the following: 4×2=8 9) What is mass extinction? 10) Explain how "Rosie" is different from a normal cow. 11) Classify viral diseases on the basis of the symptoms produced in the body organs. 12) Differentiate - Leading stand and Lagging strand. 13) What is Mayer - Rokitansky syndrome? 14) Why is the offspring formed by asexual reproduction referred as a clone? Section - C Answer any three of the following: (Q.No. 19 is compulsory) 3×3=9 15) What are the applications of Karyotyping? 16) What is petrification? 17) When does antibiotic resistance develop?18) Give the characters of a Biome. Explain biomagnification with reference to DDT. Section - D Answer all the questions: 2×5=10 20) a) Explain the different kinds of syngamy in living organisms. b) What are assumptions of Hardy - Weinberg on evolution? Explain. 21) a) Draw and explain the structure that picks up amino acids during protein synthesis. (OR) b) 'Biodiversity is rich in tropics' - Give reasons.