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COMMON QUARTERLY EXAM-2024

Standard - XII

Part - I

Time: 3.	.00 hrs	BOTANY	Marks:	70

Note: i) Answer all the que	stions. ii) Cho	oose the most app	propriate answer				
from the given four alte	rnatives and	write the optio	n code and the				
corresponding answer:-			15×1=15				
1) Ruminate endosperm is	found in	The state of the state of the state of					
a) Cocas b)	Areca	c) Vallisneria	d) Arachis				
2) The Dominant epistatis	ratio is	_					
2) The Dominant epistatis a) 9:3:3:1 b)	12:3:1	c) 9:3:4	d) 9:6:1				
3) WHICH OF THE TOHOWING	is the start	codon					
a) AUG b)	UGA	c) UAA	d) UAG				
a) AUG b) 4) ECORI cleaves DAN at							
a) AGGGII b)	GTATATC	c) GAATTC	d) TATAGC				
5) Solidifying agent used i	n plant tissue	culture is					
a) Nicotinic acid b)	Cobaltous chlo	ride c) EDTA	d) Agar				
6) Match the following an	d find the cor	rect answer					
i) Pentasomy	- A)	2n-2					
ii) Double monosomy	- B)	-2n+1					
iii) Nullisomy	- 6	2n-1-1					
iv) Trisomy	- D)	2n+3					
a) i-C ii-D iii-B iv-A	b)	i-B ii-C iii-D iv-A					
i) Pentasomy ii) Double monosomy iii) Nullisomy iv) Trisomy a) i-C, ii-D, iii-B, iv-A c) i-C, ii-B, iii-A, iv-D	4)	I-D II-C III-A IV-B					
7) How can we reverse	the sterility of	F F1 hybrid					
a) Constitute engineerring	h)	protoplasmic fusion					
a) Genetic engineerringc) Induced mutation	الله الله	Induced chromosoma	I mustation				
2) Match the following an	d find the co	rract answer	mutation				
8) Match the following an	a find the co	riect answer					
i) Free floating hydropi	lyte	- A) Utricul	laria				
ii) Routed floating rydi	opnyte	B) Pistia					
i) Free floating hydropl ii) Routed floating hydropl iii) Submerged floating l iv) Rooted - submerged	lydrophyte	C) Hydrill	a				
IV) Rooted - submerged	nyaropnyte	- D) Nymp	onaea				
a) i-B, ii-D, iii-A, iv-C c) i-C, ii-D, iii-A, iv-B	(D)	I-B, II-C, III-D, IV-A					
c) i-C, ii-D, iii-A, iv-B	d)	I-D, II-C, III-B, IV-A					
The genes controlling the			mendal are known				
to be located on how	many differe	nt chromosomes					
a) seven b)	six	c) five	d) four				
a) seven b) 10) In which techniques Et	hidium Bromid	le is used					
a) Southern Blotting te	chniques b)	Western Blotting ted	chniques				
c) Polymerase chain Re	action d)	Agrose gel Electrono	orosis				
11) Ecology is the study of	an individua	species is called	010010				
i) community Ecology							
i) community Ecology ii) Avtecology iii) species ecology iv) synecolgy							
a) i only b) ii only c) i and iv only d) ii and iii only							
12) Which one of the follo		rect set?					
a) Vincristinc-Cinechona-		Harata I. I	0				
b) Capsacin - cartharanti							
c) Digoxin - Digitalis purp							
d) Codeine - capsicum a	innum - Analge	estic					
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13) What is the phenotype of wheat kernal colour for the genotype: R₁R₂r₂r₂?

a) Dark red
b) medium dark red c) medium red
d) Light red
14) Which of the given plant produces cardiae glycosides
a) Calotropis
b) Acacia
c) Nepenthes
d) Utricularia
15) Spliceosomes are not found in cells of
a) plants
b) fungi
c) Animals
d) Bacteria

Part - II

Answer any six questions. Question No.24 is compulsory:

6×2=12

6×3=18

16) Name the levels of Ecological hierarchy. 17) Draw this diagram and label the parts.



18) Write short notes on "Pollen kitt"

19) Give the names of the scientists who rediscovered mendelism.

20) What is TATA box

21) Name the chemicals used in gene transfer

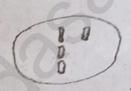
22) What do you mean "Embryoids"

23) Draw the diagram showing altitudinal zonation of veretation.

Answer any six questions. Question No.33 is compulsory:

24) This is a type Chromosomal abnormality - find it out and give a note on it

Part - III



25) Differentiate grafting and Layering 26) Draw the flowchart for triticale production. 27) Distinguish habitat and Niche 28) What is meant by Southern blotting 29) Write a short notes on Sharbati Sonora - 64 30) Draw the structure of mature Embryo sac 31) What is Atavism. 32) What is meant by Capping and tailing. 33) What is meant by Bioremediation. Part - IV $5 \times 5 = 25$ Note: Answer all the questions:-34) a) Bring out the inheritance of chloroplast gene with an example. [or] b) With a suitable diagram explain the structure of on Ovule. 35) a) Compare the various types of Blotting techniques. [or] b) Write a Advantages of Artificial seeds 36) a) What do you know about the word PBR-322? [or] b) Write the advantages and disadvantages of Bt-Cotton. 37) a) Explain the mechanism of crossing over. Draw the diagrams. [or] b) Discuss the steps involved in microsporogenesis. 38) a) Enumerate the characteristic features of Anemophilous flowers. [or] b) Describe "RNA editing" in plants.