





BRAINWARE UNIVERSITY

Term End Examination 2022
Programme – B.Sc.(Ag)-Hons-2022
Course Name – Introductory Biology
Course Code - RC-BAG172-B(T)
(Semester I)

Full Marks: 50	Time : 2:0 Hours
[The figure in the margin indicates full marks. Cand own words as far	lidates are required to give their answers in their
Grou	
(Multiple Choice T 1. Choose the correct alternative from the followin	ype Question) 1 x 20=20 g:
(i) Genetic diversity can be studied with the help	of
a) DNA c) Lipid	b) Protein
(ii) Apply your knowledge in the following 'Gymno	d) Carbohydrate
a) having seeds	b) having fruits
c) having naked ovules (iii) Most of the cereal crops are uder the category	d) None of these
a) Monocots	b) dicots
 c) Monocots and Dicots with eqaul frequency (iv) If stamen of a flower of a plant is pollinated by event is called as- 	d) Gymnosperms y the anthers of the same flowers, the
a) Self pollination	b) cross p[ollination
c) Often cross pollination	d) Often self pollination
 (v) A widely accepted explanation of natural pher continual testing is known as- 	nomena; has stood up to thorough &
a) Hypothesis	b) Theory
c) Law	d) Formulae
(vi) Under Meiosis, pairing of homologous chromo which stage-	osome (Synapsis) takes place in following
a) Leptotene	b) Zygotene
c) Pachytene (vii) Outer seed coat is-	d) Diplotene
a) Testa	b) Tegmen
c) Hilum(viii) Seed dormancy may be due to-	d) Funiculus
a) Permeable seed coat	b) Hard impermeable seed coat
c) Thin seed coat	d) Lack of reserve food

(ix) Mechanical injuring of seed coat to break dormancy is called-

		b) Stratification	
Of the state of th	a) Scarification	d) Compaction	
1000	c) Impaction (x) The first process which occurs when the s	seed is placed in the soil is-	
Car Sec. 3	a) Photosynthesis		
Ola Maria	c) Imbibitions	d) Solubilisation of food	
13. 10 10.	c) Imbibitions (xi) Part of the seed which forms the shoot at	the timeor germination is-	
	a) Radicle	b) Cotyledons d) Plumule	
	c) Epicotyls (xii) Which one is odd based on their cotyledo	b) Helianthus annuus	
	a) Allium cepa	d) Arachis hypogea	
	c) Brassica juncea (xiii) Which one is the reproductive unit having	g an embryo, reserve food and protective	
	covering-		
	a) Spore	b) Fruit	
	c) Seed	d) Fruitlet	
	(xiv) Which one is a monocotyledonous seed-		
	a) Pisum sativum	b) Cicer arietinum	
	a) Dolichos Jahlah	d) Triticum aestivum	
	(xv) For the preparation of vermicompost, sui	table waste is-	
	a) Low C/N ratio	b) High C/N ratiod) High C/O ratio	
	c) Low C/O ratio		
	(xvi) Identify among which of the following is	a moid:	
	a) Penicillium	b) Candidad) Pseudomonus	
	c) Streptomyces	u) r seudomonas	
	(xvii) Where the Halophyte plants grow?	b) Cold water	
	a) Fresh water	d) Salt Water	
	c) Ponds (xviii) The most important external factor for se		
		b) Soil	
	a) Light	d) Water	
	c) Oxygen (xix) Seeds placed deep in the soil do not gerr		
		b) Without sufficient food to bring the	
	^{a)} Unable to get sufficient oxygen	seedling the surface	
	c) Under pressure of overlying soil layers	d) Unable to get light	
	(xx) Lycopersicum esculentum is the family u	nder	
	a) Fabaceae	b) Solanaceae	
	c) Brassicaceae	d) None of these	
	c) brussicaceae	•	
		Group-B	
	(Short Answer Type Questions)		2.5 x
	(Short Ansv	ver Type Questions)	10=25
			/2 E\
:	What are the different parts of an ideal lea		(2.5) (2.5)
·	3. Classify cell division with brief description on Mitosis and Meiosis.		(2.5)
	4. Find out or identify different segments of a		(2.5)
	5. Decide, why Binomial nomenclature is useful in taxonomy?		(2.5)
	6. Demonstrate the difference between epige	eal and hypogeal germination.	(2.5)
	7. Give an outline on Archaebacteria.	I ninfortilizate which are contributing in	(2.5)
8	Apply some feature of Cyanobacteria (Alga different way for agriculture development.	i Biotermizers) which are contributing in	•
ć	Characterize the basics of vein and stomatic		(2.5)
-	10. Describe the followings based on types of	a as the parts of leaf. pollinating agents: Entomonhily Ornithophi	ly, (2.5)
74 20 - 1	Anemophily and Hydrophily.	politiatilig agents- Entomophily, ormalepin	+ 1
	11. Find out different characteristics which are	unique for Plant Cell	(2.5)
	The state of the s	anique foi Flant Cen.	

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OR

Find out the name of special types of organisms which are not mentioned in the R. H. (2.5)Whittaker five kingdom system of classification.

Group-C

(Long Answer Type Questions)

5 x 1=5

12. Create a proper description on 'Composition of an ideal flower' with proper diagram.

(5)

Based on their nature and function, propose the basic five groups of biofertilizers (5)