



BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme - B.Sc.(Ag)-Hons-2024 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. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

- Choose the correct alternative from the following:
 - (i) Which of the following organisms does not reproduce?
 - a) Mule

b) Worker bee

c) Infertile human female

- d) All of these
- (ii) Which of the following sets does not contain defining characteristics of living organisms?
 - a) Growth and reproduction

- b) Metabolism and cellular level of organisation
- c) Response to stimuli and consciousness
- d) All of these
- (iii) Identify the first step in taxonomy.
 - a) description of the organism
 - c) nomenclature of the organism
- b) identification of the organism
- d) classification of the organism.
- (iv) Choose the correct option: Founder of binomial nomenclature was
 - a) Linnaeus

b) Mendel

c) Darwin

- d) Lamarck
- (v) Show the correct option: How many living organisms are known to science?
 - a) 1.1-1.2 million

b) 1.2-1.4 million

c) 1.7-1.8 million

- d) 1.9-2.0 million
- (vi) The ascending or descending arrangement of taxonomic categories grouped as
 - a) classification

b) taxonomy

c) hierarchy

a) Linnaeus

- d) key
- (vii) Why The term taxon is used?
 - a) the ranks of species and genus
- b) the ranks up to phylum

c) the species epithet only

- d) any rank of taxonomic hierarchy
- (viii) Who is the father of taxonomy?

b) Aristotle

	d) Lamarck	
c) Darwin (ix) What is known as PPLO?	•	
a) Mycoplasma	b) Eubacteria	
	d) none of these	
 c) Archaeobacteria (x) Show the correct option: Red tides in warm coabundance of 		
a) dinoflagellates	b) euglenoids	
docmids	d) Slime moulds	
c) diatoms and desirios (xi) Idenitify the correct option: Physarum is a exa	mple of	
a) dinoflagellates	D) engletions	
c) diatoms and desmids	d) Slime moulds	
(xii) Viroids are discovered by whom?		
a) T.O. Diener	b) D.J.Ivanowsky	
o) WM Stanley	d) K.M. Smith	
(xiii) Infer the following: Main component of the ce	ell wall of fungi is	
a) cellulose	b) pectin	
c) chitin	d) dextrin	
(xiv) Identify the correct option: Sexual reproduction	on in fungi occurs by all of the follow	wing
except		
a) oospores	b) ascopores	
c) zoospores	d) basidiospores.	
(xv) Choose the correct option: According to one of	f the most widely accepted theorie	·s,
earth's atmosphere before origin of life was		
a) oxidising	b) oxidising along with H ₂	
c) reducing with free O ₂ in small amount	d) reducing with oxygen absent ir	n O₂ form
(xvi) Amitosis usually occurs in which place?	ger skiele g gereigt statt in der der de	
a) eukaryotic cells	b) prokaryotic cells	
c) meristems	d) spore mother cells	
(xvii) Which phase occupies the maximum part of c	ell cycle?	
a) Mitotic phase	b) Meiotic phase	
c) Interphase	d) S phase	1961
(xviii) Identify the following: Zygotene of prophase-I is characterised by		
a) chromomeres	b) synaptonemal complex	Sity Bar 00121
c) crossing over	d) terminalisation of chiasmata	niver niver Road, gal-70
(xix) Infer the correct option: Meiosis does not occ	ur in	Brainware Univ 398, Ramkrishnapur Ro Kolkata, Wast Bengal
a) bacteria	b) cyanobacteria	are map sst B
c) plant cell	d) both (a) and (b)	krist We
(xx) What is the stage that occurs between the two		Brainwar 8, Ramkrishn Kolkata, Wesi
a) Interphase	b) Cytokinesis	88, FO
c) Interkinesis	d) Prophase	Ö
Grou	ıb-R	2.5 x
(Short Answer Type Questions)		10=25
2. Write down the utilization of petals in a flower.		(2.5)
Compare between monocots and dicots in terms	of their leaf venation.	(2.5)
4. Explain the importance of the apical meristem in plant growth.		(2.5)
5. What are some common characteristics of plants in the Brassicaceae family?		(2.5)
6. Explain about some characteristic features of plants in the Fabaceae family. (2		(2.5)

Prepare a list of three well-known plant from the Fabaceae family along with their botanical name.	(2.5)		
8. Explain in short about the process of seed germination. 9. Explain stratification in the second seed germination.	(2.5)		
The state of the s			
11. Explain primary function of roots in flowering plants.			
realition of roots in flowering plants.	(2.5)		
Importance of logues and the Company of the Company			
Importance of legumes play in agriculture and ecosystems.	(2.5)		
Group-C			
(Long Answer Type Questions)	5 x 1=5		
12. Distinguish between mitosis and meiosis.	(5)		
Compare and contrast the gormination			
Compare and contrast the germination processes of dicot and monocot seeds, highlighting (5) their similarities and differences.			
Library Brainware University 398, Ramkrishnapur Rozth, Barasal Kolkata, West Bengal-700125			