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Enrollment No.....



Faculty of Pharmacy
End Sem (Odd) Examination Dec-2019
PY3RC01 Remedial Biology

Programme: B. Pharma.

Branch/Specialisation: Pharmacy

Duration: 3 Hrs.

Maximum Marks: 75

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1
- | | | |
|-------|---|---|
| i. | Write the characters of living organism. | 2 |
| ii. | Write the name of different types of roots. | 2 |
| iii. | Write the composition of blood. | 2 |
| iv. | Define digestion and write name of digestive enzymes. | 2 |
| v. | Write the name of different parts of brain. | 2 |
| vi. | Define reproductive system and write different parts of female reproductive system. | 2 |
| vii. | Write the function of calcium and phosphorus in plant growth. | 2 |
| viii. | List out the factors affecting photosynthesis. | 2 |
| ix. | Define cell and write the organelles of cells. | 2 |
| x. | Write the phases of plant growth. | 2 |

- Q.2
- Attempt any two:
- | | | |
|------|---|----|
| i. | Write the classification of five kingdom of life and illustrate about their features in living world. | 10 |
| ii. | Draw a labelled diagram of human heart and write about cardiac cycle and blood circulation. | 10 |
| iii. | (a) Discuss about different parts and their morphology of flowering plants. | 5 |
| | (b) Explain the exchange of gases in human respiratory system and write about respiratory volume. | 5 |

- Q.3
- Attempt any seven: Two questions from each section is compulsory.

Section - A

- | | | |
|------|--|---|
| i. | Write about endocrine gland, list out the hormones secreted and their functions. | 5 |
| ii. | Discuss about parts of brain and write the functions of different parts of brain. | 5 |
| iii. | Write the mechanism of urine formation and importance of excretory system in human body. | 5 |

Section - B

- | | | |
|-----|---|---|
| iv. | Explain nitrogen cycle detail about significance of nitrogen in plant. | 5 |
| v. | Write a note on macro and micro nutrients of plant. | 5 |
| vi. | Define photosynthesis process and what are different photosynthetic pigments. | 5 |

Section - C

- | | | |
|-------|--|---|
| vii. | Explain about aerobic and anaerobic respiration. | 5 |
| viii. | Write functions of different plant growth regulators. | 5 |
| ix. | Define cell division. Write about different phases of mitosis and meiosis. | 5 |

P.T.O.

Marking Scheme
PY3RC01 Remedial Biology

Q.1	i.	Four characters of living organism		2
		0.5 mark for each	(0.5 mark * 4)	
	ii.	Four names of different types of roots		2
		0.5 mark for each	(0.5 mark * 4)	
	iii.	Four compositions of blood.		2
		0.5 mark for each	(0.5 mark * 4)	
	iv.	Definition of digestion	1 mark	2
		Name of digestive enzymes	1 mark	
	v.	Name of different parts of brain		2
		Eight parts 0.25 mark for each	(0.25 mark * 8)	
	vi.	Definition of reproductive system	1 mark	2
		Parts of female reproductive system	1 mark	
	vii.	Function of calcium	1 mark	2
		Function of phosphorus	1 mark	
	viii.	Factors affecting photosynthesis.		2
		0.5 mark for each	(0.5 mark * 4)	
	ix.	Definition of cell	0.5 mark	2
		Organelles of cells	1.5 marks	
	x.	Phases of plant growth		2
		0.5 mark for each	(0.5 mark * 4)	
Q.2		Attempt any two:		
	i.	Classification of five kingdom of life and their features		10
		2 marks for each	(2 marks * 5)	
	ii.	Diagram of human heart	2 marks	10
		Labelling of diagram	2 marks	
		Cardiac cycle	3 marks	
		Blood circulation	3 marks	
	iii.	(a) Different parts	2 marks	5
		Morphology of flowering plants	3 marks	
		(b) Transport and exchange of gases	2.5 marks	5
		Respiratory volume	2.5 marks	

Q.3 Attempt any seven: Two questions from each section is

compulsory.

Section - A

i.	Endocrine gland	2 marks	5
	List of hormones	1.5 marks	
	Functions of hormone	1.5 marks	
ii.	Parts of brain	2.5 marks	5
	Functions of different parts of brain	2.5 marks	
iii.	Mechanism of urine formation	3 marks	5
	Importance of excretory system	2 marks	

Section - B

iv.	Nitrogen cycle	3 marks	5
	Significance of nitrogen in plant.	2 marks	
v.	Macro nutrients	3 marks	5
	Micro nutrients	2 marks	
vi.	Definition of photosynthesis process	2 marks	5
	Photosynthetic pigments	3 marks	

Section - C

vii.	Aerobic respiration	2.5 marks	5
	Anaerobic respiration	2.5 marks	
viii.	Functions of different plant growth regulators		5
	Each plant growth regulator 1 mark	(1 mark * 5)	
ix.	Definition of cell division	1 mark	5
	Mitosis	2 marks	
	Meiosis	2 marks	
