

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2022

Course: Remedial Biology

Program: B.Tech/B.Sc/B.Sc.-M.Sc.

Course Code: BP106RBT

Semester : 1st

Duration: 3 Hours

Max. Marks: 100

Instructions:

S. No.	Section A Short answer questions/ MCQ/T&F (20Qx1.5M= 30 Marks)	Marks	COs
Q 1			
1	Define residual volume.	1.5	CO 1
2	List the name of any two macronutrients.	1.5	CO 1
3	List different types of absorption.	1.5	CO 1
4	State any two functions of papain.	1.5	CO 1
5	Define heterotrophs.	1.5	CO 1
6	Report any two functions of muscle tissue.	1.5	CO 1
7	Identify any two functions of nephron.	1.5	CO 2
8	Report out any two-characteristic feature of dicotyledons.	1.5	CO 2
9	Select any two functions of neuron.	1.5	CO 2
10	Report down the function of cerebellum.	1.5	CO 2
11	Recognize any two functions of circulatory system.	1.5	CO 2
12	Select any two functions of mitochondrion.	1.5	CO 2
13	Classify the parts of small intestine	1.5	CO 2
14	Write difference between aerobic and anaerobic respiration.	1.5	CO 3
15	Illustrate the significance of RAS.	1.5	CO 3
16	Interpret the significance of Rh blood grouping.	1.5	CO 3
17	Passive transport requires energy. Is it true or false?	1.5	CO 3
18	Write any two characteristics of stems.	1.5	CO 3
19	Give two uses of biodiversity.	1.5	CO 3
20	Write about asexual reproduction.	1.5	CO 3

**Section B
(4Qx5M=20 Marks)**

Q 1			
1	List out in detail about female reproductive system.	5	CO 1
2	Describe the functions of nervous tissue and adipose tissue.	5	CO 2
3	Write about the functions of the various structure of brain.	5	CO 3
4	Write about the process of protein digestion.	5	CO 3
Section C (2Qx15M=30 Marks)			
Q 1			
1	Distinguish the changes occurring in cardiac cycle with respect to a) Systole b) Diastole	15	CO 4
2	Discuss about a) Process of gaseous exchange in the lungs b) Regulation of Respiration	15	CO 5
Section D (2Qx10M=20 Marks)			
Q 1			
1	Differentiate between the various events occurring in nerve conduction in relation to a) Action Potential b) Resting Potential	10	CO 4
2	Critically appraise the process of a) Glomerular Filtration b) Reabsorption c) Secretion in Urine Formation	10	CO 5