Name:

Enrolment No:

UPES
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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2019

Course: Plant and Animal Physiology **Semester: 3rd**
Program: B. Sc LLB Intellectual Property Rights/Food, Health & Environment Law/Medical and Forensic Law **Time: 03 hrs**
Course Code: CLNL 2030 **Max. Marks: 100**
Instructions: All questions are compulsory

SECTION-A (10 marks)

S. No.		Marks	CO
Q1	**Expand the terms :** a) ADH…… b) OP……	**02**	**CO1**
Q2	**Multiple choice questions** i. Most digestive enzymes are : a) Hydrolases b) transferases c)Mutases d) Oxidoreductase ii. Pigment system I (PSI) in plants is made up of a) 200 to 400 chlorophyll molecules b) 200 chlorophyll molecule c) 100 chlorophyll molecule d) 50 chlorophyll molecule	**02**	**CO2**
Q3	**Fill in the blanks** a) Small branches of an artery are called …….having diameter of about 0.1mm or less. b) The amount of water present in any plant is called……	**02**	**CO1**
Q4	**True or False** a) The primary CO_2 acceptor in Calvin cycle (C3 cycle) in plant is a 5C compound phosphoenol pyruvic acid. b) The maximum amount of air that can be expired after forceful inspiration is called emphysema.	**02**	**CO2**
Q5	Define the term- Vernalization.	**02**	**CO1**

SECTION-B (20Marks)

Q6	Briefly explain the term imbibition and its significance.	**04**	**CO3**
Q7	Briefly discuss the difference between tropic movement and nastic movements in plants.	**04**	**CO2**
Q8	Name four macronutrients which are essential for plant growth and development.	**04**	**CO3**
Q9	Briefly discuss the role of intestinal juice in digestion.	**04**	**CO2**
Q10	Write a short note on Giberellins	**04**	**CO2**

SECTION-C (20 Marks)			
Q11	Explain the mechanism of breathing in human beings.	**10**	**CO2**
Q12	Define the term blood pressure. Explain the factors which are affecting the blood pressure.	**10**	**CO3**
SECTION-D (50 Marks)			
Q13	Explain different methods used for breaking the seed dormancy.	**25**	**CO3**
Q14	Describe in detail the physiology of urine formation.	**25**	**CO2**