


Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May, 2019

Course: Biology	Semester: 2nd
Programme: B. Sc LLB(Intellectual Property Rights/Food, Health & Environment Law /Medical and Forensic Law)	Course Code: CLNL 1034
Time: 03 hrs.	Max. Marks: 100
Instructions: All questions are compulsory	

SECTION A (10 Marks)

S. No.	Question	Marks	CO
Q1	Define the term ecosystem and food web.	2+2	CO5
Q2	Name one disease caused due to the deficiency of vitamin A.	01	CO1
Q3	Trisomy of 21 st Chromosomes leadssyndrome.	01	CO2
Q4	Hemophilia is also known as a Bleeder's disease (True/False)	01	CO2
Q5	Name three extrinsic salivary glands which are present in mouth.	03	CO3

SECTION B (20 Marks)

Q6	With the help of well labelled diagram discuss water cycle.	10	CO5
Q7	Write a short note on a) Mitochondria b) Plasma membrane	10	CO1

SECTION-C (20 Marks)

Q8	Explain the structure of tooth with the help of well labelled diagram.	10	CO3
Q9	Define gamete intra fallopian transfer (GIFT). Discuss the advantages and disadvantages of GIFT.	10	CO4

SECTION-D (50 Marks)

Q10	Discuss the reason and characteristic features of hypothyroidism, grave's disease and Cushing's disease.	15	CO3
Q11	Discuss the causes of structural chromosomal aberration and also different types of structural chromosomal aberration.	25	CO2
Q12	Discuss the ethical issues associated with organ transplantation.	10	CO4

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SECTION A (10 Marks)

S. No.		Marks	CO
Q1	Define the term lipid and nucleic acid.	2.5+2.5	CO1
Q2	Name one disease caused due to the deficiency of vitamin D.	01	CO1
Q3	Thomas H Morgan was first to discovered sex linked inheritance on Drosophila Melanogaster. (True/False)	01	CO2
Q4	Name any one method with the help of which chromosomal abnormality in the unborn child can be detected.	01	CO2
Q5	Saliva is a mixture of,.....and.....	02	CO3

SECTION B (20 Marks)

Q6	With the help of well labelled diagram discuss pyramid of number in forest ecosystem.	05	CO5
Q7	What do you understand by term perfect and imperfect biogeochemical cycle?	05	CO5
Q8	Write a short notes on a) Ribosomes b) Golgi apparatus	05+05	CO1

SECTION-C (20 Marks)

Q9	Explain different layers of alimentary canal with the help of well labelled diagram.	10	CO3
Q10	Discuss the function of antidiuretic hormone/vasopressin and name the diseases related to antidiuretic hormone/vasopressin and its characteristic features.	10	CO3

SECTION-D (50 Marks)

Q11	Discuss different stages of meiosis with the help of well labelled diagram.	20	CO2
Q12(a)	Briefly discuss different types of organ transplantation.	10	CO4
Q12(b)	Discuss the salient features of preconception and prenatal diagnostic techniques (prohibition of sex selection) Act, 2003.	10	CO4
Q13	List the symptoms of Cri-Du Chat Symptom occur to the terminal deletion of chromosome.	10	CO3