Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, January 2021

Course: Remedial Biology Semester: 1st

Program: B.Sc. Nutrition/Clinical/Micro/B.Tech Food-Tech Time 03 hrs.

Course Code: BP106RBT Max. Marks: 100

Instructions:

SECTION A

- 1. Each Question will carry 5 Marks
- 2. Instruction: Complete the statement / Select the correct answer(s)

S. No.	Statement of question (Attempt all questions)	30	CO
Q 1	Assertion: Pericycle of monocot roots show dual functioning. Reason: Pericycle of monocot root helps in formation of lateral roots and secondary growth.		
	A) If both assertion and reason are true and reason is correct explanation of assertion.B) If both assertion and reason are true but reason is not correct explanation of assertion.	5	CO1
	C) If assertion is incorrect and reason is true. D) Both assertion and reason is false.		
Q 2	Assertion(A): Carbon monoxide when inhaled causes death. Reason(R): Carbon monoxide combines with hemoglobin. A) Both A and R are true and R is the correct explanation of A. B) Both A and R are true but R is not the correct explanation of A. C) A is true but R is false. D) A is false but R is true. E) Both A and R are false.	5	CO2
Q 3	Assertion: Ovulation is controlled by the hormone oestrogen. Reason: Contraceptives are, therefore, made up of both oestrogen and progesterone	5	CO3

	A) If both the assertion and the reason are true and the reason is a correct explanation of the assertion.		
	B) If both the assertion and reason are true but the reason is not a correct explanation		
	of the assertion.		
	C) If the assertion is true but the reason false.		
	D) If both the assertion and reason are false.		
	E) If the assertion is false but reason is true.		
Q 4	Assertion: The only product of light reaction, required in dark reaction are NADPH and ATP. Reason: Dark reaction occurs in night only.	5	
	A) If both assertion and reason are two and the reason is a correct explanation of the		
	A) If both assertion and reason are true and the reason is a correct explanation of the		CO4
	A.		CO4
	B) If both assertion and reason are true but reason is not correct explanation of the A.		
	C) If assertion is true but the reason is false.		
	D) If both assertion and reason are false.		
Q 5	Assertion: Mitochondria are known as the powerhouse of a cell.	5	
	Reason: These generate energy (as ATP) for various cellular activities.		
	A) If both assertion and reason are true and reason is the correct explanation of assertion.		
	B) If both assertion and reason are true, but reason is not correct explanation of assertion.		CO5
	C) If assertion is true, but reason is false.		
	D) If both assertion and reason is true.		
Q 6	If Mr. Vikash Pandey has a resting heart rate of 60 beats per minute and a stroke volume of 70 mL, what is his cardiac output?	5	
	A) 4.2 L/minute		
	B) 70 L/minute		CO2
	C) 4200 L/minute		
	D) 60 L/minute		
1			

	SECTION B		
	h question will carry 10 marks. Answer all 5 questions.		
2. Inst	ruction: Write short / brief notes		1
	Statement of question	50	CO
Q 1	Give a suitable example of modification (both tap and adventitions) for storage of food.	10	CO1
Q 2	Discuss mechanism of breathing and its regulation.	10	CO2
Q 3	Give an outline for mechanism of urine formation.	10	CO3
Q 4	Discuss in detail plant macro-micro nutrients.	10	CO4
Q 5	Define photosynthesis along with factors affecting photosynthesis.		CO5
	OR	10	
	Discuss cell and cell organelles.		
	SECTION C		
1. Eacl	h question will carry 20 marks.		
2. Inst	ruction: Write Long Answer.		
	Statement of question	20	СО
Q 1	Explain cell cycle and cell division OR Classify different types of plant tissues in detail with suitable examples.	20	CO5