

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

April 2024 Semester End Main Examinations

Programme: B.E.

Branch: Civil Engineering

Course Code: 23CV3BSBFE

Course: Biology for Engineers

Semester: III

Duration: 1 hrs.

Max Marks: 50

Instructions: 1. Part A is MCQ, and all questions are compulsory
2. Part B is Descriptive writing, and answer any Three questions.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.		Part A	CO	PO	Marks
	1	a) Pick the odd one out – (i). Vitamin B (ii). Vitamin D (iii). Vitamin E (iv). Vitamin K	CO 1	PO1, PO6	1
		b) The 95 % of the cellular material is made of _____ (i). Carbon, Hydrogen and Oxygen (ii). Carbon, Hydrogen, Oxygen and Nitrogen (iii). Carbon, Hydrogen, Oxygen and Sulphur (iv). Hydrogen, Oxygen and Ammonia	CO 1	PO1, PO6	1
		c) Both prokaryotic and Eukaryotic cells have – (i). Membrane bound organelles (ii). Nuclear membrane and nucleolus (iii). Single typed chromosomes (iv). DNA as a genetic material	CO 1	PO1, PO6	1
		d) The fluid portion of cytoplasm between the organelles is referred to as – (i). Cytosol (ii). Cytosome (iii). Nucleus (iv). Protoplasm	CO 1	PO1, PO6	1
		e) DNA is composed of repeating units of _____ = (i). Ribonucleosides (ii). Deoxyribonucleosides (iii). Ribonucleotides (iv). Deoxyribonucleotides	CO 1	PO1, PO6	1
		f) Enzymes are highly _____ (i). Specific (ii). Efficient (iii). Controlled by cell's genes (iv). All of the above	CO 1	PO1, PO6	1
		g) The number of enzyme classification is _____ (i). 3 (ii). 4 (iii). 5 (iv). 6	CO 1	PO1, PO6	1
		h) Organic molecules acting as cofactors are _____ (i). Substrates (ii). Catalyzers (iii). Coenzymes (iv). Holoenzymes	CO 1	PO1, PO6	1
		i) The substrate induces a change in the enzyme shape to fit the shape of the substrate is a type of _____ (i). Lock and Key hypothesis (ii). Induced-fit model (iii). Imperative-fit model (iv). Involved-fit model	CO 1	PO1, PO6	1

