JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2023

B.Tech-I Semester (BT &BI)

COURSE CODE (CREDITS): 18B11BT111(3)

MAX. MARKS: 15

COURSE NAME: Fundamental Biology

COURSE INSTRUCTORS: Dr. Tyson

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) Marks are indicated against each question in square brackets.

(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Que. 1 Write/Tick the correct answer: [co-1,2,3]

(0.5 Marks)

- a) Specialized cells for fixing atmospheric nitrogen in Nostoc are
 - (a) Akinetes
 - (b) Heterocysts
 - (c) Hormogonia
 - (d) Nodules
- b) Which organelle is not considered as a part of the Endomembrane system?
 - (a) Vacuole
 - (b) Chloroplast
 - (c) Endoplasmic reticulum
 - (d) Lysosome
- c) Which of the following structures is not found in a prokaryotic cell?
 - (a) Ribosome
 - (b) Mesosome
 - (c) Plasma membrane
 - (d) Nuclear envelope

belo (a) l (b) l (c) /	mperfect fungi which are decomposers of litter and help in mineral cycling ng to: asidiomycetes hycomycetes scomycetes beuteromycetes
(a) (b) (c)	karyon is formed when neiosis is arrested he two haploid cells do not fuse immediately sytoplasm does not fuse he two haploid cells fuse immediately
(a) (c)	ch one of the following statements is wrong? Cyanobacteria are also called blue-green algae Golden algae are also called desmids Eubacteria are also called false bacteria Phycomycetes are also called algal fungi
(a) (b)	entify the correct sequence of taxonomic categories species – order – kingdom – phylum order – genus – phylum – species family – species – class – genus species – genus – order – phylum
(a (b (c	s organelle possesses 9+0 structure Centriole Cillia Flagella all
Oue. 2	Fill in the Blanks: [6-1,2,3] (0.5 Marks)
a.	in the plant cell provide space to store excess ater and waste products.
b. (roup of cells performing a specific function are called

c.	A common fungus used in preparing the bread is	•
d.	Taxonomy of fungi is based on	·
e.	is the first terrestrial plants to possess the tissues.	vascular
	The female sex organ of bryophyte is	
Que.	3 Difference between (Explain any two).	(1 Marks)
b.	Eukaryotes and Prokaryotes Plant cell and Animal cell Rough endoplasmic reticulum and Smooth endoplasmic reticulum.	[ω-2]
Quo.	4 Explain (Any three)	(2 Marks)
ნ ი d	Main criteria of Five Kingdom classification? Explain. Endomembrane system. Double Fertilization Universal Rules of nomenclature. Sexual Cycle of Kingdom Fungi.	[(0-1] [(0-2] [(0-1] [(0-1]

