VORKSHEET-2

SEMESTER-ONE

BIOLOGY

Class XI

	Cla	ASS AI
Studen	t Name:	Date:
	Period-	-I : Topic 1
	VIRUSES A	ND BACTERIA
	Multiple Ch	oice Questions
	and write one most appropriate the questions 1 – 5.	te option out of the four options given for
1.	Bacteria that do not need ox	tygen for their respiration are known as?
	(a) Anaerobic bacteria	(b) Unicellular bacteria
	(c) Capsule bacteria	(d) None of the above
2.	An additional layer of bacter thick and strong.	ria cell around the slime layer to make it
	(a) Capsule	(b) Capsid
	(c) Cellular	(d) None of the above
3.	Unicellular organisms that 1	pelong to prokaryotic group are called?
	(a) Bacteria	(b) Virus
	(c) Hydra	(d) None of the above
4.	A virus which invades and i	nfects the bacterial cell is known as?
	(a) Bacteriophage	(b) Mutation phase
	(c) Lymphocycoma	(d) None of the above
5.	It is long, slender and rod-sh	aped measuring about 18 nm in diameter

(b) Lactobacillus virus

(d) None of the above

and 300 nm in length.(a) Tea mosaic virus

(c) Tobacco mosaic virus

	Fill in the Blanks
Fill in th	e blanks with a suitable word for each of the questions 1 – 5.
1.	is a gelatinous substance secreted by the protoplast and deposited over the cell wall in the form of a loose gelatinous sheath.
2.	Chemically, the cell wall consists of acetyl glycosamine, acetyl muramic acid a peptide chain of four or five amino acids. All these chemicals together form a polymer called
3.	Each bacteria cell has a thin, elastic and selective permeable which allows passage of dissolved substances in and out of the cell.
4.	Manybacteria decompose the dead organic matter by purification and decay.
5. _	fixation is the process that biologically converts atmospheric nitrogen into its usable form.
	True or False
State way	hether the following statements are true or false for each of the s.s. 1–5.
1.	Based on the type of nucleic acid present, viruses are classified as RNA and DNA viruses.
2.	The plasma membrane is composed of phospholipid, proteins and polysaccharides.
3.	The simple compounds produced as a result of decomposition and decay are released back into the environment for recycling or exposed by the plant as waste material.
4.	Certain leguminous plants, such as pea and bean plants have symbiotic bacteria (<i>Rhizobium</i>) in their root nodules.
5.	The virus take up free nitrogen from the atmosphere and convert the same into soluble nitrates such as potassium nitrate.
	Theoretical Questions

Theoretical Questions

Answer each of the questions 1-5.

1. A protein coat that surrounds the central portion of the nucleoid and enzymes in a virus is known as?

The	virus that possesses DNA as its genetic material is known a
	vele by which a virus can replicate its DNA using a host cown as?
A cy as?	cle in which the phage replicates and lyses the host cell is kn
_	anisms that are not capable to synthesize food get their food are organisms are known as?

Teacher's Signature