Question Bank-B.Sc.I

$\ensuremath{\mathbf{Q.1}}$ Choose correct alternative and rewrite the sentences.

1) Meaning of term	n Virion is	·	
a) Spice	b) Salt	c) Poison	d) Sugar
2. Study of viruses	is known as		
a) Virology	b) Bacteriology	c) Phycology	d) Mycology
3)	isolated Tobacco	Mosaic Virus (TMV	V) from tobacco plant
a) Martinus Beijrir	nck b) Adolf I	Mayer c) Stanle	y d) Erwin Popper
4)s	shows first time pro	esence of virus in T	obacco plant.
a) Adolf Mayer	b) Iwanowski	c) Martinus Beijrir	ack d) Walter Reed
5) Viruses are			
a) Autotrops b) Saprophytes	c) Obligate paras	sites d) Facultative parasites
6) Capsule of virus	s is made up of		
a) Carbohydrates	b) Protein	c) Lipid d) S	tarch
7). Icosahedral syn	nmetry have	equivalent to	riangular facets
a) 20 b) 25	c) 30	d) 40	
8) The term bacter	ium is given by		
a) Ehrenberg	b) R. H. Whittek	ar c) Ronald I	Ross d) Louis Pasteur
9) The bacterial ce	ll wall is made up	ofS	ubstance
a) Polysaccharide	b) Lipid	c) Peptidoglyc	an d) Lipid

10) Flagella of bac	cteria helps in			
a) Locomotion	b) Reproduction	on c) Fix	xation	d) Digestion
11) All the bacteri	a fix nitrogen exce	pt		
a) Rhizobium b) E	c) A	zatobactor	d) Cyan	obacteria
12 Bacterial cyto	plasmic contains _	typ	e of ribosom	nes.
a) 30 S b)	40 S c) 70	d) 90 S	\$	
13) b	pacteria are used to	leach out miner	als in Biomi	ning.
a) Pseudomonas	b) Thioba	acillus c	e) Bacillus	d) Staphylococcus
14)	_ is asexual reprod	luction type in b	acteria	
a) Transduction	b) Transform	nation	c) Conjugati	on d) Binary fission
15) According to	G. M. Smith algae	classified into _	(classes
a) 5 b) 6	c) 7 d)	8		
16) Study of algae	known as			
a) Phycology	b) Cytology	c) Phy	rsiology	d) Mycology
17)	used as biofertil	izer		
a) Ulothrix	b) Microsystis	c) Nostoc	d) Vol	vox
18) Chlorella yiel	ds a	antibiotics		
a) Chlorellin	b) Ampicillin	c) Penicil	llin d)) Carragoenin
19)	_ is unicellular gree	en alga used in s	space flights	as a source of food

a) Volvox	b) Voucheria	c) Ulothrix	d) Chlorella		
20) Term Cyan	o related to	pigments			
a) Red b)	Yellow	c) Yellow green	d) Blue green		
21) fresh water alga					
a) Sargassum	b) <i>Ulva</i>	c) Nosctoc	d) Gracillaria		
22)s	shows larvicidal	properties.			
a) <i>Ulva</i>	b) <i>Nostoc</i>	c) Chara	d) Fucus		
23) Biofertilize	rs are active stra	ins of			
a)Microbes	b)Virus	c)Bryophytes	d)Pteridophytes		
24) Trihodermo	a fungicide is use	eful against ₁	pathogenic fungi.		
a) <i>Plyporus</i> spp	b. b) <i>Fusarium</i>	n spp. c) Colletotricht	um spp. d) Mucor spp.		
25) BGA can fix atmospheric nitrogen incrop in India.					
a) Wheat	b) Rice c)) Jowar d)Maiz	re		
26)	- species is symb	iotic nitrogen fixer.			
a) Rhizobium	b) Alternaria	a c)TMV d)Bacillus	S		
27) Phosphate	solubilizing bacto	eria hydrolyses	compound.		
a) Nitrogenous	b) Carbohydrat	tes c) Phosphate	d) Lipids		
29) Azolla removes from polluted water.					
a)Heavy pestic	ides b) Heavy	metals c) Heavy pho	sphorus d) Heavy carbon		
30)	is a member of	f Blue-green algae.			

a) Chara	b) <i>Oedogonium</i>	c) <i>Nostoc</i>	d) <i>Diatoms</i>		
Q. 2.Long questions (Each for 10 Marks)					
1. What are types of viruses? Explain DNA virus structure					
2. Economic importance of viruses					
3. Describe sexual reproduction in bacteria					
4. Explain in brief cell structure of bacteria					
5. Classification of Algae according to G. M. Smith					
6. Describe in detail modes of sexual reproduction in <i>Spirogyra</i>					

7. Give an account of economic importance of algae

Q. 3 Short Notes (Each for 5 Marks)

1. General characters of viruses

2. Structure of viruses

3. RNA Virus / TMV

4. Symmetry of viruses

6. Bacterial discovery

5. Bacteriophage

8. Describe in detail procedure for preparation of biofertilizers.

9. Define biofertilizer? Explain the role of blue green algae as biofertilizers.

10. Describe in brief biofertilizers with respect to characters, association and uses of Rhizobium.

- 7. Gram positive and gram negative bacteria
- 8. Binary fission in bacteria
- 9. Harmful activity of Bacteria
- 10. Gram positive and gram negative bacteria
- 11. General characters of algae
- 12. Heterocyst of *Nostoc*
- 13. Cell structure of *Spirogyra*
- 14. Importance of biofertilizers in agriculture
- 15. Practical application of biofertilizers
- 16. Azolla as a biofertilizers
- 17. *Trihoderma as a* biofertilizers