b) Chlorine	Register Number			177.
				0,0

(English Version)

Time Allowed: 3 Hours 1 [ Maximum Marks: 150

> Note: i) Answer all the questions from Part - A.

- ii) Answer any fifteen questions from Part - B.
- Answer only six questions from Part C including Question No. 71 which is compulsory.
- Answer only four questions from Part D.
- Draw diagrams wherever necessary. V)

## PART - A

Answer all the questions.

Each question carries one mark.

Choose and write the correct answer in the answer-book:

 $20 \times 1 = 20$ 

- The discovery of the microbial world of "animalcules" was made by
  - Robert Koch a)

- b) Edward Jenner
- Anton von Leeuwenhoek

suttgens is involved in Risconnatto fever

Fleming. d)

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83		2	
2.	Which of the following is not a he	eavy r	netal?
	a) Mercury	b)	Chlorine
	c) Silver	d)	Copper.
3.	The World Environment Day is c	elebra	ated every year on
	a) 5 <sup>th</sup> July	b)	5 <sup>th</sup> April
	c) 5 <sup>th</sup> June	d)	5 <sup>th</sup> May.
4.	The highest percentage of gas pr	resent	t in the atmosphere is
	a) CO <sub>2</sub> and and another	b)	O <sub>2</sub> -wan/
ottanı	c) N <sub>2</sub>	d)	so <sub>2</sub> .
5.	Denitrification results in the for	matio	on of
	a) Nitrate	b)	Nitrite
	c) Ammonia	d)	Nitrogen.
6.	Adhesion of Streptococcus pyog	enes	to pharyngeal epithelial cell is mediated
	by which of the following?	- 12	
	a) Fimbriae	b)	Lipoteichoic acid
	c) Liposaccharide	d)	Flagella.
7.	Which of the following major	r ant	igens is involved in Rheumatic fever
	episodes ?	战战	Chorse and write the correct attents
	a) Albumin	b)	Myosin
	c) Globulin	d)	Flagellin.
8.	The stool of cholera is		
	a) blood with mucous	b)	rice-water stool
	c) watery stool	d)	normal stool.

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Student Bounty.com Which enters the body through the bite of lice? a) Borrelia recurrentis b) Salmonella c) Taenia solium d) Mycoplasma. 10. Staphylococcus aureus belongs to the family Enterobacteriaceae a) b) Micrococcaceae Lentiviridae c) d) Picornaviridae. 11. L. donovani is transmitted by a) Ticks b) Sand fly c) Mosquitoes Rat flea. d) 12. Which of the following is the habitat of adult F. hepatica? Lungs b) Liver c) Intestine d) Brain. 13. Hepatitis A virus belongs to the family of a) Picornaviridae b) Caliciviridae c) Retroviridae d) Hepadnaviridae. 14. Lyme disease is caused by Borrelia burgdor feri b) Chlamydia psittaci c) Sand fly d) Mosquitoes. Brucella species causes In whold himse in damed by ... a) Typhoid fever b) Undulant fever

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d)

Viral fever.

Rat bite fever

II.

83				4	A CONTRACT OF THE PARTY			
1	6.	Nurs	se cells are present in which	organ	?	Answer		
		a)	Skin	b)	Intestine			
		c)	Liver	d)	Thymus.	.01		
1	7.	Whi	ch antibody appears first afte	r a p				
		a)	IgA	b)	IgG			
		c)	IgM	d)	All of these.			
1	8.	The	genetic code consists of how	many	y codons ?			
		a)	64	b)	32			
		c)	16	d)	128.			
]	19.	9. The EcoRI restriction enzyme was isolated by						
		a)	Watson and Crick	b)	Khorana			
		c)	Ames	d)	Herbert Boyer.			
2	20.	O. The first attempt to culture animal cells was done by						
		a)	Ross Harrison	b)	Stanley Cohen			
		c)	Werner Arber	d)	Hamilton.			
I		in th	e blanks :	uta os	isopatitis a vinia belongs	8 × 1 = 8		
2	21. Phase contrast microscope was first described by							
2	22.	set a to the set outside the set of the set outside the set of the						
2	23.	Common cold is caused by virus.						
. 2	24.	. The tetanus bacilli with spores give the appearance of						
2	25.	the Windshipson the Windshipson to						
2	26.	15. Brucella species causes						
2	27.		structure of Herpes virus is					
	28.	Charles State Seven						

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- III. Answer the following questions by writing True or False:
  - 29. The lethal effect by certain metals on bacteria is known as oligodynamic action.
  - 30. Bacillus thuringiensis is not a biopesticide.
  - 31. Treponema pallidum gets transmitted from the mother to the foetus and causes congenital syphilis.
  - 32. Rebecca Lancefield introduced a classification of streptococci.
  - 33. Diphtheria does not cause bull neck appearance.
  - 34. Mycoplasma are cell wall bacteria.
  - 35. Niclosamide and Praziquantel are effective for taeniasis.
  - 36. RNA is the genome in Herpes Virus.
  - 37. Substances which exhibit the phenomenon of fluorescence are called fluorochromes.
  - 38. Tuberculin type of hypersensitivity was described by Robert Koch.

## IV. Match the following:

 $6 \times 1 = 6$ 

- 39. Streptomycin a) Photo-reactivation
- 40. Sodium benzoate b) Reduviid bug
- 41. T. cruzi c) Transduction
- 42. Taenia solium d) Selman Walksman
- 43. Pyrimidine dimer e) Preservative
- 44. Bacteriophage f) Intestinal parasite.

[ Turn over

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Answer the following questions in one sentence each:

45. What is called Bactericide?

- 46. What is Opisthotonos?
- 47. Name the enzymes produced by Vibrio.
- 48. What is Candida?
- 49. What is the genetic material of HIV?
- 50. Which enzyme joins the DNA fragments?

callidum gets transpatit

Answer any fifteen questions. i)

Each question carries two marks.

 $15 \times 2 = 30$ 

- 51. What are the types of electron microscope?
- 52. Give two uses of fluorescent microscope.
- 53. Define Glycolysis.
- 54. What is Chemotherapy?
- 55. Define biogas.
- 56. Define aerosol.
- 57. Define Pasteurization.
- 58. What is alpha haemolysis?
- 59. What are the four species of genus Shigella?
- 60. Give the structure of Tetanus bacilli.
- 61. What is the action of exfoliative toxin?
- 62. What is lyme borreliosis?
- 63. Explain the two species of Brucella and their infected animals.

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- 64. Where is Candida albicans present in the body? When does it cause my fair questions. infection?
- 65. What are the modes through which HIV is not spread?
- 66. What is Erythroblastosis foetalis?
- 67. State the beneficial role of IgE.
- 68. Define Immunization.
- 69. Why should a codon have at least three nucleotides?
- 70. What is Wobble hypothesis?

### PART - C

- Answer any six questions including Question No. 71 which is Note: i) compulsory.
  - Each question carries five marks. ii)

 $6 \times 5 = 30$ 

71. Give at least five points to differentiate eumycetes from actinomycetes which cause mycetoma.

OR

Describe Ti plasmid with diagram.

- 72. List out the controlling methods of microorganisms by chemical agents.
- 73. What are the raw materials required for penicillin production?
- 74. Write a short note on oxidation pond.
- 75. Write a short note on Shiga toxin.
- 76. Write a short note on general characters of Vibrio.
- 77. Describe the laboratory diagnosis of Chaga's disease.
- 78. What are the differences between immediate and delayed type hypersensitivity reactions?
- 79. Describe conjugation in bacteria.

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### PART - D

Note: i) Answer any four questions.

ii) Each question carries ten marks.

 $4 \times 10 = 40$ 

- 80. Elaborate on the work of Louis Pasteur.
- 81. Elucidate electron microscopy.
- 82. What are the methods adopted for composting? Mention the important factors influencing the compost making.
- 83. Discuss the source, spread and control of bacillary dysentery.
- 84. List the differences between elementary and reticulate bodies.
- 85. Write the methods of laboratory diagnosis of herpes simplex virus.
- 86. Describe the development of T-cells in thymus.
- 87. Describe the production of Transgenic animals. Draw diagram.