This	question	рарег	contains	4	printed	pages.
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6071

Your Roll No.

B.Sc. (H) MICROBIOLOGY / Ist Sem. B

Paper - MIHT-101

(Introduction to Microbial World)

Time: 3 Hours

Maximum Marks: 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt Five questions in all.

All questions carry equal marks.

- 1. Give an example of the following (any fifteen):
 - (i) Chlamydiae
 - (ii) Thermophilic archaebacteria
 - (iii) Nitrogen fixing algae
 - (iv) Poisonous fungus
 - (v) A plant growth hormone producing fungus
 - (vi) Plant symbiotic bacteria
 - (vii) Bacterial biofertilizer
 - (viii) Vesicular arbuscular Mycorrhizal fungus
 - (ix) Algae associated with coral reef

P.T.O.

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- (x) Algae exhibiting Palmella stage (xi) Fungus used for industrial production of citric acid (xii) Viroidal disease (xiii) Dermatophyte (xiv) Prokaryotic algae (xv) Fungus producing zygospore (xvi) An algae showing false branching (xvii) Halophilic algae (1×15) (a) Discuss the germ theory of disease? Who proposed it? (5) (b) Who is the father of antiseptic surgery? Justify your answer. (4) (c) Name any two scientists who contributed to the development of environmental Microbiology and discuss their work? (6) Differentiate between (any five): (a) Prokaryotic and eukaryotic cell
 - (c) Sexual and parsexual cycle

(b) Viroid and Prion

6.

(d) Monoecious and dioecious thallus (e) Zygospore and oospore (f) Haplobiontic and diplobiontic life cycle (a) Write short notes (any 3): (i) Food reserve in algae (ii) Heterokaryosis (iii) Types of Asexual spores in algae (iv) One step multiplication curve $(4 \times 3 = 12)$ (b) Discuss the mode of nutrition in Protozoa? (3) (a) Outline the classification propose by Whittaker. What is the basis for Whittaker's classification? (4) (b) Write an explanatory note on lysogenic cycle of bacteriophages? (5) (c) Which microorganisms are placed under acellular microorganisms and why? (4) (d) Name the different types of symmetry found in viral capsids? (2) (a) Who discovered vaccination? Write briefly about the disease and the process of vaccination used? (4)

P.T.O.

(b)	Descr	ıbe	the	work	of	Louis	Past	eur	on
	fermen	itatio	on stu	dies.					(3)
(c)	Who d	isco	vered	penic	illin	and how	?	•	(3)
(d)	Write	brie	fly a	about	the	contribu	tions	of	Elie
	Metch	niko	ff to	the fie	ld of	microbi	ology.		(3)

(e) Describe the contributions of Fritsch to the field

of phycology?

(2)