

R-3821-22

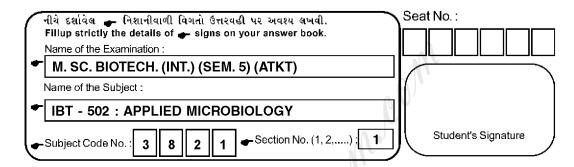
M. Sc. Biotech. (Int.) (Sem. V) (ATKT) Examination May/June - 2010

IBT - 502 : Applied Microbiology

Time: Hours] [Total Marks: 70

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Instruction:



1 Answer in brief: (5 out of 5)

- 10
- (a) Give examples of soil borne diseases in humans and plants.
- (b) What is extramural and intramural aeromicrobiology?
- (c) Which are the microbial flora of food?
- (d) Draw the figure of phosphorous cycle.
- (e) Give some examples of microbial products produced from the plant.
- 2 Answer the following : (any one)

10

- (a) Elaborate your views on Carbon cycle.
- (b) Explain in detail on contamination, spoilage and preservation of food.
- 3 Write short notes: (any three)

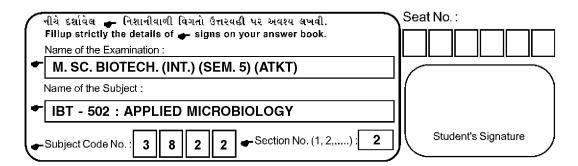
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- (a) Marine ecosystem
- (b) Microbial analysis of air
- (c) Microbial fermented food products from milk: Cheeses
- (d) Single cell protein.

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Instruction:



4 Answer in brief: (5 out of 5)

- 10
- (a) Give the basic differences between municipal and industrial wastewater.
- (b) Enlist the microbes producing glutamic acid.
- (c) Enlist the criteria needed for assessing biological threats to agricultural crops.
- (d) What is biological warfare?
- (e) Enlist the properties of useful microbes.
- 5 Answer the following: (any one)

10

- (a) Enlist the treatments use for sewage water. Explain in detail about biological wastewater treatments.
- (b) Which are the known microbial threats? Explain various criteria needed for assessing biological threats.
- **6** Write short notes : (any **three**)

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- (a) Bioterrorism Defense against it
- (b) Solid waste processing
- (c) Production of Amylase
- (d) Primary Vs. secondary metabolites.

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