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BlSc. (Sem -HH) miseroans with the

: December 2 2016 in mature to be an and

CC - 202 : Microbiology Who a hard

[Time: 3 Hours] Marks : 70] Figures to the right indicate full marks. Instructions:(1)

- with correct labels.
 - Mention clearly the number of question you are answering.

Answer the following: (any two) 1.

14

- (a) Write a note on physico-chemical characteristics of soil.
- (b) Describe enrichment culture technique and buried slide method of serial dilution? studying soil micro flora.
- Explain with suitable microbial examples Antagonism, Parasitism and (c) --- The recompredation: no decree to is written being sold butter at semal.
 - Describe root nodule formation in leguminous plantage of (d). The It composting ?

Answer the following: (any two) 2.

14

- Compare and contrast : Nitrogen fixation and Denitrification. (a)
- Explain biochemical transformations of sulfur and sulfur compounds (b) 大大大大大 during sulfur cycle.
- Explain mineralization, immobilization and solubilization of phosphorous. (c)
- Write a note on biofertilizier. (d)

Answer the following: (any two) 3.

14

- Explain principle, requirements and procedure of IMViC test. (a)
- Describe Standard Plate Count method for quantitative bacteriological (b) analysis of water.
- Describe presumptive and completed tests for qualitative bacteriological (c) analysis of water.
- Draw flow diagram of drinking water purification plant and explain its (d) operations.

Answer the following: (any two) 4.

14

- Enlist pollution problems generated due to disposal of untreated waste-(a) water.
- Draw overall installation and cross section of septic tank. Explain how (b) it works.

There Day I.