



AD-3234
Third Year B. Sc. (Sem. VI) Examination
March/April – 2015
Microbiology : Paper - MB-19
(Economic Microbiology)

Time : Hours]

[Total Marks : 50

Instructions : (1)

<p>नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : THIRD YEAR B. SC. (SEM. VI)</p> <p>Name of the Subject : MICROBIOLOGY : PAPER - MB-19</p> <p>Subject Code No. : 3 2 3 4 Section No. (1, 2,.....): Nil</p>	<p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; margin-top: 10px;">Student's Signature</div>
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- (2) Figures to the right indicate full marks of the question.
(3) Draw neat and labelled diagram wherever necessary.

- 1 Give specific answers : 10
- (a) State the factors that increase the cell permeability for glutamic acid production.
- (b) What is biosensor ? State its principle with main components.
- (c) What are Biocell ? State its significance.
- (d) What is biosorption ? State its two applications.
- (e) Define gas pressurising and water flooding.
- 2 Explain any two of the following : 12
- (a) Discuss the surface and submerged processes for vinegar production.
- (b) Define biogas. Give an account of methanogens involved in biogas production.
- (c) Describe the slurry-phase Bioreactors used in bioremediation process.

- 3** Attempt any two of the following : **16**
- (a) Explain with flow sheet diagram industrial production of penicillin.
 - (b) Give a detail account on microbial polysaccharides.
 - (c) Write an essay on Alcohol- The liquid fuel.
- 4** Write short notes on any Three of the following: **12**
- (a) In-Situ leaching of copper.
 - (b) Encapsulation of enzyme.
 - (c) Riboflavin production Process.
 - (d) Organisms involved in Biosorption.
 - (e) Biosensors in environmental monitoring.
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