

B.Sc. 3rd Semester (Honours) Examination, 2019-20

MICROBIOLOGY

Course ID : 32215

Course Code : SH/MCB-305-SEC-1

Course Title: Microbiological Analysis of Air & Water

Time: 2 Hours

Full Marks: 40

*The figures in the right hand side margin indicate full marks.
Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer *any five* of the following: 2×5=10
- (a) What is bio aerosol?
 - (b) What is the disadvantage of chlorination of drinking water?
 - (c) What is MPN test?
 - (d) Differentiate xenobiotics from recalcitrants.
 - (e) What is bio-remediation?
 - (f) Give example of one air borne bacterial and one viral disease.
 - (g) What do you mean by incineration?
 - (h) Which pH is favourable for fungal growth?
2. Answer *any four* of the following questions: 5×4=20
- (a) Why Escherichia coli is considered as indication of pollution? 3+2=5
 - (b) Describe how selective and differential medium facilitate the bacteriological analysis of water.
 - (c) Write down different methods of water purification.
 - (d) Write a short note about the role of UV light and HEPA filter to control microorganism.
 - (e) Name one water borne bacterial disease. How it can be controlled? 1+4=5
 - (f) What is allergen? Describe the role of aeromicroorganisms in food industry. 1+4=5
3. Answer *any one* of the following questions: 10×1=10
- (a) What is meant by sewage? Describe the different process of sewage treatment. 2+8=10
 - (b) Briefly describe different physical and chemical control measures of microbial diseases. 5+5=10
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