

**16U614**

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Name: .....

Reg. No.....

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2019**

(Regular/Supplementary/Improvement)

(CUCBCSS-UG)

**CC15U CHE6 E03 - MEDICINAL AND ENVIRONMENTAL CHEMISTRY**

Chemistry - Elective Course

(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

**Section A**

Answer *all* questions. Each question carries 1 mark.

1. Which is the most common method for sterilizing surgical instruments?
2. The blood group, which is called universal recipients, is .....
3. Keezharnelli is widely used for treating .....
4. Name of the drug used against bronchial asthma.
5. Anthrax is an infection caused by ..... bacteria.
6. Draw the structure of endosulphan.
7. What is the antidote for arsenic poisoning?
8. The most common technique for sampling particulate is .....
9. GC-MS is best suited for the identification of low level of .....
10. The sewage with 500mg/L BOD is called .....

**(10 x 1 = 10 Marks)**

**Section B**

Answer any *ten* questions. Each question carries 2 marks.

11. What is Rh factor in blood?
12. What are the precaution are to be taken during blood transfusion?
13. What is prodrug?
14. What are the medicinal application of the plant thulasi?
15. What is hypercholesterolemia? Name a drug used for its treatment.
16. What are symptoms of lung cancer?
17. What is Threshold Limiting Value?
18. What are the toxicological effects of mercury?
19. Explain the neurological effects of H<sub>2</sub>S.
20. Explain the basic principle of cyclone collectors.
21. What is BOD and its significance?
22. What is Rain water harvesting and its importance?

**(10 x 2 = 20 Marks)**

### Section C

Answer any *five* questions. Each question carries 6 marks.

23. Explain the various health standard fixed by WHO.
24. Write notes on (a) Thalidomide tragedy (b) Therapeutic index.
25. Discuss the causes, symptoms and drugs used for the treatment of typhoid fever and Hepatitis- A.
26. Discuss the treatment for poisons due to snake bite and arsenic.
27. Explain the control of air pollution by catalytic converters and Cottrell electrostatic precipitator.
28. Discuss the various sampling methods used for gases.
29. What is COD? Explain the principle and procedure for the determination of COD.
30. Explain USAB process.

**(5 x 6 = 30 Marks)**

### Section D

Answer any *two* questions. Each question carries 10 marks.

31. What are persistent organic pollutants? Explain the toxicological effects of dioxin, endosulphan, carbaryl and DDT.
32. Discuss the causes, symptoms and drugs used for the treatment of any three air-borne diseases.
33. Discuss the analytical methods used for the determination of CO, NO<sub>x</sub> and hydrocarbons.
34. Explain various stages of sewage water treatment process.

**(2 x 10 = 20 Marks)**

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