

**B.Sc. Allied Health Sciences First Year Semester-II**  
**July/August 2019 Examination**

Time : 2.30 Hrs.

[Max. Marks : 80]

**SUBJECT : BIOCHEMISTRY**

**Q.P Code : J2030**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Define pH. Indicate with a diagram the different parts of pH meter. Add a note on preparation of buffer solutions
2. What is waste? Describe the segregation and disposal of biomedical waste from the laboratory.

**SHORT ESSAY** (Answer any Six)

**6 X 5 = 30 Marks**

3. Write a note on collection and transport of specimens.
4. Describe the ethical conduct of laboratory personnel.
5. Discuss the common laboratory accidents and ways for its prevention.
6. External Quality Assurance Programme.
7. Write the Henderson Hasselbach's equation. Add a note on its significance.
8. Discuss uses, care and maintenance of water distillation plant.
9. Write the importance of reagent bottles, wash bottles and specimen bottles in laboratory.
10. Explain the maintenance of glassware apparatus.

**SHORT ANSWERS** (Answer any Ten)

**10 X 3 = 30 Marks**

11. What is Standard solution?
12. What is precision and accuracy?
13. What is Atomic weight and equivalent weight?
14. List any three Post analytical errors.
15. Write preparation of Normal Saline.
16. Write the procedure for storage of samples.
17. Ideal pH indicator.
18. What are acids and bases? Give examples.
19. Explain solute, solvent and solution with examples.
20. What are the precautions to be taken for Arterial blood collection?
21. Write the calculation of mean and standard deviation.
22. Define Normality and Molarity of solutions.

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**SUBJECT : MICROBIOLOGY**

**Q.P Code : J2040**

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*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Draw a neat labeled diagram of Bacterial Cell. Describe the Structure, type, functions, methods of detection, clinical significance of Cell wall
2. Describe the mode of transmission, clinical manifestations and samples to be collected in pulmonary tuberculosis.

**SHORT ESSAY (Answer any Six)**

**6 X 5 = 30 Marks**

3. Map the lesions of *Pseudomonas aeruginosa* on Human body
4. Map the lesions of *Candida albicans* on Human body
5. Different modes of transmission of Infections with examples
6. Target sites for Antibiotics with examples
7. IgM : Structure, properties & clinical significance
8. List the opportunistic infections in HIV
9. Hot Air Oven : Principle, holding time and uses.
10. Kochs postulates

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. List 3 enriched media
12. Enumerate three staining techniques used for bacterial infections
13. Enumerate 3 diseases transmitted by Ingestion
14. Enumerate the Infections caused by Pneumococcus
15. Enumerate three infections caused by Rhizopus
16. Enumerate any 3 skin antiseptics
17. Define Sterilization and Disinfection
18. Name three clinical features of Syphilis
19. Name three infections caused by E.coli
20. Preventive measures for nosocomial infection
21. Enumerate three articles sterilized by Autoclave
22. List three sexually transmitted diseases

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**SUBJECT : PATHOLOGY**

**Q.P Code : J2050**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Define Neoplasia. Discuss the differences between benign and malignant tumors with neat labeled diagram.
2. Describe cellular and vascular events in acute inflammation. Mention various tests in inflammation

**SHORT ESSAY (Answer any Six)**

**6X 5 = 30 Marks**

3. Discuss pathogenesis and types of urinary stones
4. Discuss various agents causing cell injury. Give few examples for irreversible cell injury.
5. Describe pathogenesis and complications of myocardial infarction
6. Discuss various cellular adaptations
7. Describe pathogenesis and stages of pneumonia
8. Describe pathogenesis and types of hepatitis.
9. Discuss physical examination of urine. Brief note on Benedict test
10. Discuss the CSF findings in Tuberculous meningitis

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. List 3 methods of urine sample collections
12. Mention any 3 steps of tissue processing
13. List 3 disadvantages of FNAC
14. Mention 3 causes of iron deficiency anemia
15. Mention 3 stages of shock
16. List 6 causes for leucopenia
17. Draw the diagram of peptic ulcer
18. List 3 infectious diseases
19. List 3 blood grouping systems
20. Mention any 3 stains used in Laboratory
21. What is thromboembolism
22. Define metaplasia

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