

B.Sc. Allied Health Sciences First Year (Semester-II)

November 2020 Examination

Time : 2 Hrs.

[Max. Marks : 60]

SUBJECT : BIOCHEMISTRY

Q.P Code : J2030

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

1 X 10 = 10 Marks

1. What is a Buffer? Give three examples. Explain the preparation of a Buffer using pH meter.

SHORT ESSAY

7 X 5 = 35 Marks

2. Define percentage solutions. What is the mass% (m/m) of a solution prepared by dissolving 30.0g of NaOH in 120.0 g of water?
3. Define stock solutions. Explain the preparation of working standard and limitations.
4. Explain sample collection, preservation and transportation of blood.
5. Write the types, principle, procedure, maintenance and limitations of centrifuge.
6. Explain the laboratory accidents and ways for its prevention.
7. Describe various grades of chemicals, reagents and water used in the laboratory.
8. Explain biomedical waste disposal in the laboratory.

SHORT ANSWERS

5 X 3 = 15 Marks

9. Write Henderson-Hasselbach's equation and its uses.
10. Define acids and bases with examples.
11. What are the precautions to be taken for Arterial blood collection?
12. Name 3 anticoagulants used for blood collection
13. Define buffer and pH

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B.Sc. Allied Health Sciences First Year (Semester-II)

November 2020 Examination

Time : 2 Hrs.

[Max. Marks : 60]

SUBJECT : MICROBIOLOGY

Q.P Code : J2040

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

1 X 10 = 10 Marks

1. Define and Classify Sterilization. Draw a neat labeled diagram of the Hot air oven and describe its Principle, holding time, uses, controls used.

SHORT ESSAY

7 X 5 = 35 Marks

2. Map the lesions of *Mycobacterium tuberculosis* on Human body
3. Autoclave : Principle, holding time, uses & controls used
4. Map the lesions of *Candida* on Human body
5. Nosocomial Infections : Types & Prevention
6. Contributions of Robert Koch
7. Map the lesions of *Salmonella typhi* on Human body
8. Different modes of transmission of Infections with examples

SHORT ANSWERS

5 X 3 = 15 Marks

9. Name three sexually transmitted diseases
10. Enumerate 3 bacterial vaccines
11. Name three skin disinfectants
12. Standard precautions
13. List three clinical manifestations of Candidiasis

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B.Sc. Allied Health Sciences First Year (Semester-II)

November 2020 Examination

Time : 2 Hrs.

[Max. Marks : 60]

SUBJECT : PATHOLOGY

Q.P Code : J2050

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

1 X 10 = 10 Marks

1. Describe cellular and vascular events in acute inflammation. Mention various tests in inflammation

SHORT ESSAY

7 X 5 = 35 Marks

2. What are the different methods of blood collection modes
3. Pathogenesis and laboratory investigations of Iron deficiency anemia
4. Discuss physical examination of urine. Brief note on Benedict test
5. Discuss various cellular adaptations
6. Discuss steps in tissue processing
7. Write the uses of Fine Needle Aspiration cytology
8. Describe pathogenesis and complications of atherosclerosis.

SHORT ANSWERS

5 X 3 = 15 Marks

9. Draw the diagram of peptic ulcer
10. List 6 causes for leucocytosis
11. List 3 complications of myocardial infarction
12. Mentions stages of ESR
13. List 3 blood grouping systems

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