

B.Sc. Allied Health Sciences Second Year (Semester-IV)

Examination October - 2012

Time : 2.30 Hrs.

Max. Marks : 80]

SUBJECT : BIOCHEMISTRY - IV

Q.P Code : AHS-105

*Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.*

LONG ESSAY

2 X 10 = 20 Marks

1. Explain the principle and uses of spectrophotometry
2. Discuss structure, function and separation of immunoglobulins

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Protein energy malnutrition
4. Dietary source and importance of protein
5. Turbidometry
6. Dietary fibre
7. Basal metabolic rate
8. Abnormal constituents of urine
9. Clearance tests
10. Nitrogen balance

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Calorific value
12. Test for ketone bodies
13. Respiratory quotient
14. Beer's law
15. Digitoxins
16. Essential amino acids
17. Specific gravity of urine
18. Glycemic index
19. Define biological value of protein
20. Jaff's test
21. Method of estimation of barbiturates
22. Bence Jones proteins

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Microbiology - IV

Q.P Code : AHS-109

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Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Enumerate the salmonella causing enteric fever and describe the laboratory diagnosis of enteric fever.
2. Describe the morphology of treponema pallidum. Write in detail the serodiagnosis of syphilis.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Bacillary dysentery-laboratory diagnosis
4. Significant bacteruria
5. Laboratory diagnosis of vibriocholera
6. Infections caused by eschericia coli
7. Weil's disease
8. E L tor vibrios
9. Salmonella food poisoning
10. Lyme disease

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name two lactose fermenting bacteria and two non lactose fermenting bacteria
12. Pigments produced by pseudomonas aeruginosa
13. Name four organisms causing urinary tract infection
14. Name three culture media used for vibriocholerae
15. Mention three characteristics of shigella
16. Name three spirochaetes of medical importance
17. Two rapid tests for diagnosis of cholera
18. Enteropathogenic eschericia coli
19. Cholera red reaction
20. Name three diseases caused by klebsiella
21. Entero invasive E.coli (EIEC)
22. Nichols strain of treponema pallidum

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Pathology-IV

Q.P Code: AHS-107

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LONG ESSAY

2 X 10 = 20 Marks

1. What are different types of microtomes? Discuss the advantages and disadvantages of each.
2. Discuss in detail the mechanism of automatic tissue processor

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Frozen section
4. Le cell preparation
5. Special stains used for demonstration of glycogen
6. Routine decalcification method
7. Preservation of blocks
8. Clearance angle
9. Honing
10. Harris haematoxylin

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Moulds for embedding
12. Causes of scores or lines running vertically in the tissue sections
13. Rotary microtome
14. Melting point of wax commonly used
15. Three advantages of formalin fixative
16. AFB staining
17. Two processes of haematoxylin ripening
18. Composition of Bouin's fixative
19. Clearing agents
20. Regressive staining
21. Perl staining
22. Masson's fountana