

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences
First Year Semester – II (CBCS Scheme)
June/July – 2018 Examination

Time: 2.30 Hrs.

[Max. Marks: 80]

BIOCHEMISTRY

Q.P Code : BAHS201CC

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

LONG ESSAY

2 X 10 = 20 Marks

1. Write a note on different types of glasswares used in Biochemistry laboratory and its applications.
2. How is pH of a solution determined? Mention the Blood buffers with their composition and write its role in regulation of Blood pH.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. External Quality Assurance Programme.
4. Write the Henderson Hasselbach's equation. Add a note on its significance.
5. Determination of strength of acids.
6. Write a note on segregation and Disposal of Biomedical waste materials.
7. What is de-ionized water? What is the difference between distilled and de-ionized water?
8. Code of ethics for lab technicians.
9. Define S.I. units. How are the following expressed in S.I. units?
a) Length b) Mass c) Time d) Amount of substance.
10. First aid in clinical laboratory.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Explain the term solute and solvent.
12. Give the reference values for the following parameters- urea and creatinine.
13. What are the two types of Quality control in clinical Biochemistry Laboratory? List one application for each.
14. List any three precautions to be followed during handling of acids in the Laboratory.
15. Write any three important tests done with Blood sample collected using EDTA Tubes.
16. First aid in burns.
17. Arterial blood collection.
18. Ideal pH indicator.
19. Normality of a solution.
20. Storage of samples.
21. Basic concept of acid base reaction.
22. Calculation of mean and standard deviation.

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MICROBIOLOGY

Q.P Code : BAHS202CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Define and classify sterilization. Add a note on autoclave
2. Map the lesions caused by Salmonella typhi in humans. Describe mode of transmission, clinical manifestation and sample collection in this disease

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Name the commonly used antibiotics against bacteria and their target sites.
4. Describe hot air oven, principle and articles to be sterilized.
5. Describe disinfection of operation theatre.
6. Describe clinical features, mode of transmission and sample collection of chikungunya fever.
7. Describe clinical features, mode of transmission and sample collection in leishmania infection.
8. Describe hand hygiene technique.
9. Describe clinical features, mode of transmission and sample collection in candida infection.
10. Define an antibody and describe its properties.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name three killed vaccines.
12. Define endemic disease. name TWO epidemic disease in India.
13. Draw a neat labeled diagram of a structure of Human Immuno Deficiency Virus (HIV).
14. Describe blood spill management.
15. Enumerate three disinfectants used in hospitals.
16. Name three bacteria causing diarrhea.
17. Enumerate three modes of transmission of Hepatitis B virus.
18. Enumerate three lesions caused by Staphylococcus aureus.
19. Enumerate three infectious agents spread by mosquito.
20. Enlist three differences between humoral and cell mediated immune response.
21. Describe the mechanism of anaphylaxis.
22. Define cross infection with one example.

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PATHOLOGY

Q.P Code : BAHS203CC

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

LONG ESSAY

2 X 10 = 20 Marks

1. Discuss the various cellular adaptations with examples for each.
2. Define inflammation. List the cardinal signs of inflammation. Discuss chronic inflammation with its lab tests.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Hemoglobin.
4. Steps in Tissue processing.
5. Meningitis.
6. ESR.
7. FNAC-procedure, advantages and staining.
8. Write differences between benign and malignant tumors.
9. Blood collection procedure.
10. Blood grouping and Rh typing.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. What is pneumonia?
12. Methods of urine collection.
13. List the types of urinary calculi.
14. List the agents causing viral hepatitis.
15. Define anemia. List two causes for anemia.
16. Enumerate the tests for proteinuria.
17. Prothrombin time (PT)
18. Urine microscopy.
19. What is leucopenia? List two conditions associated with leucopenia.
20. Define atheroma.
21. What is thrombosis? List two conditions associated with thrombosis.
22. Agents causing environmental pollution.

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Time : 2 Hrs.

[Max. Marks: 60]

ENVIRONMENTAL SCIENCE

Q.P Code : BAHS201AE

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY (Answer any Two)

2 X 10 = 20 Marks

1. Define Disaster? Classify Disasters with examples? Describe briefly on the measures to be taken during Floods?
2. Classify Solid waste. Describe the control measures for effective management of solid waste generated at urban areas and industries?
3. Classify various types of Environmental pollution. Describe the causes, effects and control measures for soil pollution?

SHORT ESSAY

5 X 5 = 25 Marks

4. What are food chains and food webs? Give examples and discuss their significance.
5. Enumerate the Sources, effects and control measures for noise pollution.
6. What are the major causes and consequence of deforestation?
7. What is global warming? Enumerate the causes and its effects and suggest necessary to prevent Global warming.
8. What is soil erosion? Discuss the measures for checking soil erosion.

SHORT ANSWERS

5 X 3 = 15 Marks

9. What are the effects of Population Explosion?
10. List the endangered and endemic species of India?
11. Write a short note on Minamata disease.
12. Enumerate the atmospheric pollutants causing air pollution?
13. Enumerate different acts to protect environment?

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Time : 2 Hrs.

[Max. Marks: 50]

ENGLISH FOR COMMUNICATION

Q.P Code: BAHS201FC

Your answers should be specific to the questions asked.

I. This main contains ten (10) objective type questions. Each question carries one mark. All questions are compulsory. **10 X 1 = 10 Marks**

1. **Verbal communication conveys message through.....**
a) Words b) Gestures c) Touch d) Postures
2. **In verbal communication words are used as**
a) Weapons b) Helpers c) Guides d) Medium
3. **In oral communication words are.....**
a) Spoken b) Written c) Deleted d) Selected
4. **The process of focusing on some details is called.....**
a) Abstracting b) Inferring c) Choosing d) Deciphering
5. **Conclusion made by reasoning from evidence are called.....**
a) Results b) Ideas c) Inferences d) opinions
6. **The meanings on which most people agree are called.....**
a) Connotative b) Figurative c) Responsive d) Denotative
7. **The meanings that arouse personal reaction are called**
a) Connotative b) Denotative c) Active d) Creative
8. **The problems in which words and symbols convey called different meanings to different people are**
a) Bypassing b) Communication c) Slanting d) Stereotyping
9. **Communication from higher to lower ranks is called.....**
a) Backward flow b) Outward c) Downward d) Forward
10. **Verbal communication conveys message through**
a) Words b) Gestures c) Touch d) Postures

II. Rewrite as directed

6 X 1 = 6 Marks

1. The _____ (principle/principal) lesson here is to learn homophones. (Fill in the blank with appropriate word given in the brackets)
2. Everything would end to the _____ (satisfy) of all. (Complete the sentence with the right form of word given in the brackets)

P.T.O

3. The narrator was asked to accompany the man. (Add a question tag)
4. He wants a fifty paise coin. (Change into a question beginning with the right form of 'do')
5. Hanuman found Sanjeevini on the crest of the mountain. (Frame a question so as to get the underlined word as answer)
6. Intra communication mean_____

III. Match the expression under column A to its corresponding language function under B.

5 X 1 = 5 Marks

A	B
Expression	Functions
1. Hello, Good Morning	a. Expressing sympathy
2. Suneetha this is Dr. Radhika	b. Greeting
3. Thank you so much	c. Introducing
4. What a pity	d. Expressing gratitude
5. What you say might be right, but...	e. Disagreeing

IV. Answer any one of the following.

1 X 10 = 10 Marks

1. As a student how can you improve your speaking skills in English? Explain.
2. Prepare a suitable resume and covering letter (Job Letter) for the post of lab technician with require details.

V. Answer any three of the following.

3 X 5 = 15 Marks

1. Write a note on tense forms.
2. Prepare an oral presentation on the Role of personality development.
3. Explain the role of communication in medical fields.
4. What is reading? Explain the types of reading.
5. What are the common problems of English speaker?

VI. Complete the dialogue:

4 X 1 = 4 Marks

1. Srujan: Hello Devaansh! When did you arrive?
Devaansh:_____
2. Srujan: If you are not too busy, please join us for a small celebration.
Devaansh:_____
3. Srujan: Actually I just got a promotion at work.
Devaansh:_____
4. Srujan: Thank you so much. May be you can give me some advice for my new position.
Devaansh:_____

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