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Paper Code : AEC-01

C

(SVSU:2022-23/S)

17/01/25

Enrollment No.

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Program Name- B.C.A. / *Paramedical*

I Semester / I Year Examination

Subject Code- AEC-01

Subject Name- English Communication

[Time : 1.30Hr]

[Max. Marks : 35M]

Note : 1. Attempt all the questions as per given instructions.

1. Multiple Choice Questions (MCQs) [01M×10=10M]

I The girls _____ on the stage.

- (a) Is dancing (b) am dancing (c) dances (d) are dancing

II _____ Ganga falls in the Bay of Bengal.

- (a) A (b) an (c) the (d) no article

III Rakesh _____ to work throughout the day.

- (a) liking (b) going (c) liked (d) likes

IV Identify the type of sentence.

Hurrah! We have won the match.

- (a) Imperative sentence (b) Exclamatory sentence
(c) Declarative sentence (d) None of the above

V The words that are used in place of Noun are called-

- (a) Adjective (b) Pronoun (c) Preposition (d) Conjunctions

VI Identify the type of sentence.

When do we have our meeting scheduled?

- (a) Declarative sentence (b) Interrogative sentence
(c) Imperative sentence (d) Exclamatory sentences

VII Identify the type of tense.

The boys play in the park.

- (a) Simple Present Tense (b) Simple Past Tense
(c) Simple Future Tense (d) none of the above

VIII How many parts of speech are there?

- (a) 7 (b) 6 (c) 9 (d) 8

IX A group of words that makes complete sense is called-

- (a) Verb (b) Tense (c) Sentence (d) Adjective

X You must buy ____ umbrella.

- (a) a (b) an (c) the (d) no article

2. Answer in long (any three)

[05M×3=15M]

I What are the Do's and Don't's of a GD?

II Write an essay on 'Personal Grooming and Etiquettes'

III Write an application to the warden of your hostel requesting him to pardon you for coming late to the hostel the previous day.

IV Write an essay on 'Ideal person of my life'.

3. Answer in short (any five)

[02Mx5=10M]

I Write the names of 'Parts of Speech'.

II What do you mean by 'Resume'?

III Define Extempore.

IV What is meant by a 'Report'?

V What do you mean by 'Role Play'?

VI Transform the sentence into Future Tense.

The children play in the park.

VII Write the opposite of- complete

Subject: General Pathology and Haematology

M.M. 70

Note: All questions are compulsory. Make diagrams wherever required.

(10x3=30)

- (5x5=25)**

- (1x5=5)**

- (1x10=10)**

- [1]**

Enrollment No.

B.Sc. Medical Laboratory Technology (BMLT) Ist Year
Subject: General Microbiology

Subject: General Microbiology and Immunology

Time: 3 Hours

M.M. 70

Note: All questions are compulsory. Make diagrams wherever required.

Q1. Long answer type questions. Attempt any three.

(10x3=30)

- Define the term Immunity, their types and their role in the human body.
- Describe the various methods and importance of antimicrobial sensitivity test.
- How you can sterilize the culture media by using Autoclave?
- What do you know about sterilization, explain its various methods? Write down the advantages of sterilization?
- Write about Culture media and their types.

Q2. Short answer type questions. Attempt any five.

(5x5=25)

- Describe the various phases of bacterial growth.
- Write about the Scope and importance of Microbiology.
- Explain the principle of ZN Staining technique.
- Define antigen and its types.
- Explain the procedure of Gram Staining Technique.
- Difference between gram positive and negative cell wall.
- Define BMW and its management.

Q 3. Very short answer type questions. Attempt any five.

(1x5=5)

- a. Sterilization
- b. Antigen
- c. Immunity
- d. Fermentation
- e. Hepten
- f. Antibody
- g. Microbiology

Q 4. Multiple choice questions. Attempt all.

(1x10=10)

- a. PPE is stands for
i. Personal Protective Equipment
iii. Personal Production Equipment
ii. Personal Productive Equipment
iv. None of these
- b. Cillia is made up with
I. Protein
ii. Lipid
iii. Protein and Lipids
iv. None of these
- c. Flagella is made up with
I. Protein
ii. Lipid
iii. Protein and Lipids
iv. None of these
- d. Capsule of the bacterial cell protect the bacteria from
I. Phagocytosis
ii. Fermentation
iii. Heat
iv. Disinfectant
- e. Bacterial cell wall is made up with
I. Protease
ii. Cellulose
iii. Peptidoglycan
iv. Chitin
- f. In which phase of the bacterial growth the number of bacterial count is become static.
I. Stationary phase
ii. Lag Phase
iii. Log Phase
iv. Death Phase
- g. Bacteria reproduce asexually by
I. Budding
ii. Sporulation
iii. Mitosis
iv. Binary Fission
- h. In Gram staining technique _____ used as a mordant.
I. Protein
ii. Crystal Violet
iii. Iodine
iv. Normal Saline
- i. In ZN staining technique _____ used as a mordant.
I. Phenol
ii. Heat
iii. Both I & ii
iv. None of these
- j. Agar in culture media used as a _____
I. Nutritional agent
ii. Solidifying agent
iii. Both I & ii
iv. None of these

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Paper Code: BMLT-103

B (SVSU:2023-24/R)

Enrollment No.

B.Sc. Medical Laboratory Technology (BMLT) Ist Year

Subject: General Biochemistry

Time: 3 Hours

M.M. 70

Note: All questions are compulsory. Make diagrams wherever required.

Q1. Long answer type questions. Attempt any three.

(10x3=30)

- Describe the classification and function of lipids.
- What is nucleic acid? Describe the classification of RNA.
- What is Enzymes? Write an account of the various factors affecting enzyme activity.
- Describe the classification of Amino acid on the basis of structure & chemical nature.

Q2. Short answer type questions. Attempt any six.

(5x6=30)

- Write the chemical properties of Amino acid.
- What is Polysaccharide? Give examples with their structure.
- Explain nucleotide and their functions.
- What is Lipoprotein? Describe the classification of lipoproteins.
- Describe the secondary structure of proteins.
- Describe Lineweaver-Burk double reciprocal plot.
- Define acid-base balance.

Q 3. Very short answer type questions. Attempt any five.

(1x5=5)

- Draw cholesterol structure?
- Write the epimer of glucose.
- Write the full form of LDL.
- Write the name of sulfur containing amino acids.
- Write class of alcohol dehydrogenase.
- Write the Chargaff's rule.

Q 4. Multiple choice questions. Attempt all.

(1 x 5 = 5)

- a. The power house of cell is**
i. Mitochondria ii. Chloroplast iii. Nucleus iv. None of these
- b. The number of double bonds present in linoleic acid is**
i. 1 ii. 2 iii. 3 iv. 4
- c. Which of the following is an example of coenzymes**
i. NAD ii. FAD iii. NADP iv. All of These
- d. Lactose is formed by**
i. Glucose + Glucose ii. Glucose + Galactose iii. Glucose + Fructose iv. None of these
- e. The nitrogenous base present in Lecithin is**
i. Ethanolamine ii. Serine iii. Choline iv. None of These

Time: 3 Hours

M.M. 70

SECTION-A

Human Anatomy (Max. Marks – 35)

Note:- Draw well labeled diagrams wherever necessary.

- Q1 Write Long notes. Attempt any one:-** (10X1=10)
- Describe Gross Anatomy of Heart
 - Describe classification of bones with examples
- Q2 Write short notes. Attempt any three:-** (5X3=15)
- Types Synovial joint
 - External features of thyroid gland
 - Gross anatomy of kidney
 - Gross anatomy and applied of breast
 - Types of epithelium
- Q3 Write very short notes. Attempt any five :-** (1X5=5)
- Enumerate cranial nerves
 - Enumerate meninges of brain
 - Enumerate fissures in right lung
 - Enumerate bones of lower limb
 - Enumerate layers of eye ball
 - define endocrine gland
 - Enumerate organs of male reproductive system
- Q4 Multiple choice Question. Attempt all.** (1X5=5)
- Number of cervical vertebrae is
1 Seven 2 Eight 3 Nine 4 Ten
 - Elbow joint is
1 Hinge joint 2 Condylar joint 3 Ball and socket joint 4 Pivot joint
 - Common carotid artery is present in
1 upper limb 2 Lower limb 3 Abdomen 4 Neck
 - Atlas is
1 1st cervical vertebra 2 2nd cervical vertebra 3 3rd cervical vertebra 4 4th cervical vertebra
 - Number of spinal nerves is
1 Twelve pairs 2 Twenty one pairs 3 Seventeen pairs 4 Thirty one pairs

SECTION-B

HUMAN PHYSIOLOGY (Max. Marks – 35)

- Q1. Long answer type questions. Attempt any one.** (10x1=10)
- Define Neuromuscular junction. Explain its structure and mechanism of events on it.
 - Define Erythropoiesis. Explain its various steps and factors affecting it.
- Q2. Short answer type questions. Attempt any three.** (5x3=15)
- List the functions of blood.
 - Difference between cardiac muscle and skeletal muscle.
 - Explain Active transport with an example.
 - Define hypoxia and list its types.
 - Functions of saliva.

Q 3. Very short answer type questions. Attempt any five.

(1x5=5)

- a. Diffusion.
- b. Haemophilia
- c. Blood groups
- d. Define BP.
- e. Jaundice.
- f. Heart sounds.
- g. Types of leucocytes.

Q 4. Multiple choice questions. Attempt all.

(1x5=5)

- a. WBC stands for
 - i. White blood cells
 - ii. White bone cells
 - iii. White blood coat
 - iv. None of these
- b. The power house of cell is.
 - i. nucleus.
 - ii. lysosome.
 - iii. mitochondria.
 - iv. centriole
- c. The chromosomal number in a normal human is
 - i. 23.
 - ii. 44.
 - iii. 46.
 - iv. 48
- d. The total volume of blood in an adult human is
 - i. 3L.
 - ii. 5L.
 - iii. 8L.
 - iv. 10L
- e. RMP in motor nerve is
 - i. -90mV.
 - ii. 70mV
 - iii. 90mV.
 - iv. -90m

Time: 3 Hours

Note: All questions are compulsory. Make diagrams wherever required.

Section A

Subject: Computational Skills (MM: 35)

(MM: 35)

(10x2=20)

Q1. Long answer type questions. Attempt any two.

- Explain the following LAN, MAN, WAN, PAN.
- What are the characteristics of computers?
- What is System? Write down the list of different Components in a System.

Q2. Short answer type questions. Attempt any two.

(5x2=10)

- Give an example of data and information.
- Define operating system and discuss their types.
- Distinguish between LAN and WAN.
- Explain the difference between Analog computer and Digital computer.

(1x2=2)

Q 3. Very short answer type questions. Attempt any two.

- What are Input devices? Give examples.
- Convert $(1000101)_2$ into a decimal $(?)_{10}$ number system.
- What is a browser cache?

(1x3=3)

Q 4. Multiple choice questions. Attempt all.

7. Multiple choice questions: Choose the correct answer.
- a. Which of the following is the brain of the computer?
i. Central Processing Unit ii. Memory iii. Arithmetic and Logic unit iv. Control unit
- b. Which of the following is the smallest unit of data in a computer?
i. Bit ii. KB iii. Nibble iv. Byte
- c. Which of the following is the software?
i. Mouse ii. Printer iii. MS Word iv. Monitor

Section-B

Subject: Biostatistics (M.M. 35)

(10x2=20)

Q1. Long answer type questions. Attempt any two.

- a. Calculate mean and median of 13 observations on systolic blood pressure (in m.m.)
98,100,105,98,106,102,105,99,97,132,130,114,111
- b. Define Hypothesis? Write the steps of Hypothesis testing?
- c. What is measure of Dispersion? Discuss in detail?

(5x2=10)

Q2. Short answer type questions. Attempt any two.

- Assumptions of t test
- Importance of Biostatistics
- Merits and Demerits of mode
- Normal Curve

(1x2=2)

Q 3. Very short answer type questions. Attempt any two.

- Type I error
- Skewness
- Frequency

(1x3=3)

Q 4. Multiple choice questions. Attempt all.

4. Multiple choice questions. Attempt all.
- a. The methods used to determine something about a population on the basis of a sample is called:
(i) Inferential statistics (ii) Descriptive statistics (iii) Applied statistics (iv) Theoretical statistic
- b. The mode letter of the word "STATISTICS" is:
(i) S (ii) Both S and T (iii) Both S and I (iv) T
- c. A specific characteristic of a population is called:
(i) Statistic (ii) Parameter (iii) Variable (iv) Sample
