CENTRAL BHARAT SEVAK SAMAJ

NATIONAL DEVELOPMENT AGENCY, ESTABLISHED IN 1952 BY PLANNING COMMISSION, GOVT. OF INDIA

CENTRAL BOARD OF EXAMINATIONS

BSS NATIONAL VOCATIONAL EDUCATION MISSION

AHE001-BSS DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY

TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

AHE001-01 COMMUNICATIVE ENGLISH AND COMPUTER FUNDAMENTALS

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) A cat is _____ the table.

2) _____ You will pass.

3) She knows English _____

4) Get up _____

5) You _____ Loved me.

6) Computer is an _____ device

7) She ran _____ the road

8) You can enlarge a document using _____

9) In Windows _____ function key used to get help

10) Notes and commands can be related to the _____

11) Key board shortcut for undo command is _____

12) Function keys are _____

13) She is _____ B.sc graduate

14) Computer can only understand _____ language.

15) Have mercy _____ the poor

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Define what is noun?
2) Define Pronoun?
3) Define indefinite Article?
4) Define punctuation?
5) Windows
6) Define software?
7) Explain any five functions in MS Excel
8) Explain Header and Footer
9) Explain any five options for the format 'menu'
10) Save use
11) MS Access
12) Icons
13) Chart elements
14) Status bar
15) Explain Header and Footer

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Explain few sentences using "do/does"?
2) Write a letter to a book seller ordering some prize books?
3) Key board
4) Edit
5) What are the characteritics of computer?
6) Give 5 examples of interrogative sentence
7) Explain Informal letter
8) Kinds of Adjective any five

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Write about the conversation to two person?
2) Describe MS Windows
3) Write all Internal Commands in dos and explain it.
4) Explain the classification of computer
5) Write briefly about Hardware and Software with example?

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TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

AHE001-02 CLINICAL BIO CHEMISTRY - I

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) Amount of dilute acid or dilute alkali required to change one PH is known as _____

2) Enzymes present in milk are _____

3) Enzymes present in saliva are _____

4) _____ is the re agent used for the estimation of glucose

5) Incubation at controlled temperature is required for

6) The top hole is used to _____

7) One mole or gram molecular weight of the solute dissolved in 1 litre of distilled water

8) pH means _____

9) Gastric juice is used for _____

10) Urine for bacteriological culture should be collected in an _____

11) Creatinine reacts with alkaline picrate solution to give _____

12) Normal urine colour is _____

13) The normal serum glucose level in Fasting _____

14) The expanded form of GTT is _____

15) Blank solution is used to set the colorimeter on _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) What is meant by a solvent?
2) What is meant by Absolute specificity?
3) What is meant by minimum and maximum temperature?
4) Defines Beer's law.
5) Write the definition of Flame photometer.
6) Describe the mechanism of glycosuria.
7) Cleaning methods of glass wares any two? (a)Pipettes (b)Test tubes (c)Glass wares (d)Infected slides (e)Infected glassware
8) Care of refrigerator Any two?
9) Difference between Internal and External Indicators?
10) The crystals found in urine? Any two?
11) Draw a picture of urino meter?
12) Molecules
13) Bilirubin
14) Uric acid
15) SGOT & SGPT

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) What are the factors that modify the enzymes?
2) Explain the flame photometer.
3) What are the symbols and units of measurement
4) Definition and Buffer capacity and properties of Buffers.
5) Normal value of glucose
6) Atomic weight
7) Blood urea estimation
8) Mercuric Nitrate method

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain about glasswares used in Lab?
2) Write and explain the diabetes mellitus.
3) Write about pH
4) Uric acid and Urea.
5) What is Colorimeter? Explain the Principle, Components & Use of a Colorimeter.

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AHE001-BSS DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY

TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

AHE001-03 CLINICAL MICRO BIOLOGY - I & PARASITOLOGY

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) Process of killing of pathogenic micro organism is called as _____

2) Virus is defined as _____

3) Example for enriched media is _____

4) Study of micro organism _____

5) Plagule transmitted through _____

6) Bacteria are _____

7) Gram staining techniques was introduced by _____

8) Streptococci arranged in _____

9) Example for smallest bacilli is _____

10) In ziehl - Neelsen's staining method _____ is used as decolourizing agent.

11) _____ is called as elongated, cylindrical, unsegmented body.

12) Shape of the cestode is _____

13) In the head sad of Trematode _____ absent.

14) _____ is a method of sterilization by burning

15) Agglutination occurs in _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Define Immunization?
2) Define Antibodies.
3) Define Anaphylaxis.
4) Define Transplantation.
5) Write about anaerobic bacteria?
6) How to collect CSF?
7) What is Bacteria
8) Define Heat sterilization.
9) What is a Microscope?
10) What are the types of culture media?
11) What is morphological study of Bacteria?
12) What are the stains used for gram staining?
13) What is Ribosome?
14) What is Sterilization?
15) Collection and processing of urine specimen for a microbiology lab

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Write about structure of Immunoglobulin?
2) Write about Hot air oven with neat diagram.
3) Alber staining
4) Explain the simple staining?
5) Write about the mechanical parts of microscope
6) Draw the diagram of microscope and mark the parts
7) Write about cyst
8) How will you diagnose typhoid fever

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Write about microscopical examination of stool sample.
2) Explain about the bacterial cell wall.
3) Explain the Morphology of Bacteria with the help of picture
4) Explain the morphology and classification of bacteria with the help of diagram
5) Explain the detection of protein in wine?

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TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

AHE001-04 HAEMATOLOGY,BLOOD BANKING & HISTOPATHOLOGY - I

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) The normal size of a RBC is _____

2) Neubauer's counting chamber is used for _____

3) Solid portion of blood is _____

4) Tissue study is called _____

5) _____ is a cell counting chamber.

6) Important stain in Histopathology _____

7) Heparin is a Bio- _____

8) Histopathology is a study of _____

9) _____ select piece of biopsy for histologic processing

10) _____ is study about blood.

11) Total length of wintrobes tube is _____

12) Monocyte diameter is _____

13) Normal volume of Seminal fluid is _____

14) The blood remains in _____ continuously

15) Formalin 10% is used as fixture in _____ lab

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Blood transfusion.?
2) Osmotic fragility test.?
3) Write any 3 anticoagulants your know and explain
4) What is hemoglobin
5) Write about spermatozoa
6) What is Antigen and give definition.
7) In which cell Basophilie stipling present.
8) Write the function of anticoagulant.
9) Write the use of potassium oxalate.
10) What is clinical used for RBC count?
11) TC DC
12) Embedding
13) Eosinophil cells
14) Romonowsky Stains
15) Reticulocytes

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Preparation of specimen.
2) Impregnation with paraffin wax.
3) Write RH-Anti D Serum test method
4) Write the function of cerebero spinal fluid.
5) What are the urinary parasite.
6) Briefly Plasma factor?
7) Functions of blood
8) Blood Components and their functions

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain tissue fixative types
2) Write the formula about Erytheropoeisis with picture
3) Explain about differential leucocyte count with help of picture
4) Explain the declarification of nutric acid solution?
5) Write the procedure & clinical use of thick smear and thin smear. Explain the principle and procedure of Leishman's staining.

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AHE001-BSS DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY

TWO YEARS (FINAL YEAR) EXAMINATION NOVEMBER-2025

AHE001-09 CLINICAL BIO CHEMISTRY - II

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) Tissues like _____ utilize only glucose to meets its need of energy

2) Urea is _____ compound formed in the body in liver

3) Albumin is a _____ in plasma

4) The expanded form of GTT is _____

5) 1 millimicrom is _____ mm

6) Kidney maintain _____ balance of the body

7) Examination of urinary deposits specially for _____, _____ and ceists

8) The normal amount of proteins excreted in urine is _____

9) Albuminuria means _____

10) Use of colorimeter is _____

11) Examples for conjugated proteins are _____

12) The Example for animal starch is _____

13) Pandy's Test used in the estimation of _____

14) Condition of hypothyrodism in adults _____

15) Name a tumour marker _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Molecular weight
2) Colorimeter
3) Types of Jaundice?
4) Define - "polyuria"?
5) Define - "Anuria"?
6) Define - ketonaemia?
7) Function of the bile salts?
8) Function of thyroidgland?
9) Bio Chemistry
10) Urino meter
11) Benedict's test
12) Colorimetery
13) VMA
14) Phenol red test
15) BJP

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Blood urea estimation
2) Incubators components
3) Cholestrol
4) What is the serum PTB and BET levels and Disadvantage?
5) Collection and preservative for urine?
6) Disorders of thyroid functions?
7) Diacetyle monaxium method
8) Method for the estimation of serum albumin?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain liver function test
2) Explain about the methods of serum uric acid
3) Explain the microscopical examination of the urine?
4) Estimation of blood bicarbonate?
5) What is Enzyme? Write about the diagnostic application of serum enzyme estimation.

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TWO YEARS (FINAL YEAR) EXAMINATION NOVEMBER-2025

AHE001-10 CLINICAL MICRO BIOLOGY - II

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) Bacterias are _____, _____ structures

2) The letters VDRL represents _____

3) Size of virus may vary from _____ nm

4) The streaked plates are incubated at _____

5) S Pneumoniae grow on _____

6) Gonococcus mainly grows well on _____

7) The pathogenic fungi are _____

8) Candida cultured on _____

9) Mycetoma caused by higher fungi like _____

10) AIDS is caused by _____ virus.

11) Rat is resistant against _____

12) _____ is called as macroglobulin.

13) Viral hepatitis is symptomatic disease primarily involving _____

14) Result of Montoux test is read b/w _____

15) Locomotory organ of bacteria _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Binary fission
2) Laboratory identification of bacteria
3) Virus general properties?
4) Write about Agar.
5) Write the expansion of IMVIC.
6) Define Epidermophyton.
7) Define capsid
8) Define parasite
9) What is Immunology
10) Define Racial Immunity
11) Write about the equipments used in RA Test.
12) What is PPD?
13) Bacteria
14) LPCB
15) Oxidase test

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Mac Conkey's medium
2) Two methods of coagulase test
3) Write about Isolation of bacteria.
4) Write about streak plate method.
5) Write about Haemophilus influenzae
6) State on Bacillus anthracis
7) Write about Viruses.
8) Laboratory diagnosis of Gonorrhoea

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain Bacteriological examination of water with picture
2) Write about gram positive cocci and give two examples.
3) Write about gram negative cocci and give two examples.
4) Write about HIV test.
5) What is Rheumatic fever. Discuss the Lab. Diagnosis of Rheumatic fever.

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TWO YEARS (FINAL YEAR) EXAMINATION NOVEMBER-2025

AHE001-11 HAEMATOLOGY,BLOOD BANKING & HISTOPATHOLOGY-II

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) The blood remains in _____ continuously

2) Australia antigen is otherwise called _____

3) Basophils are the rarest _____

4) DPX is a Histopathology _____

5) MCV expansion is mean _____

6) _____ present in Bombay group.

7) Pcv tube is called _____ tube.

8) Average size and diameter of RBC is _____

9) 'o' group person is a _____

10) Absence of sperm is known as _____

11) Haemolysis happened in _____

12) Expansion of E.D.T.A. is ethelene diamine _____

13) Formed Elements contains _____, _____ & _____

14) _____ is an autoantibody present in patient having SLE.

15) Universal donors are _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Lobe of ear
2) What is structure of leucocytes?
3) The use of paraffin wax in Histopathology.
4) Write about spermatozoa.
5) Write about Erythropoeisis
6) Reason for 'AB' blood group is universal receipiant.
7) Write the outline of blood bank.
8) Describe Mayer's Egg albumin fixative.
9) WBC Pipette
10) Osmotic fragility test
11) FNAC
12) Exfoliative Cytology
13) EDTA
14) Donor Screening.
15) Red cell indices.

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Plasma
2) Write about section cutting of the tissue.
3) Write about donars screening. Explain.
4) Draw the picture of normal sperm.
5) Write briefly about microtome of section cutting.
6) Write difference between myleloblast and lymphoblast.
7) Preparation of Leishman's stain
8) Types of tumour

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain about organization of blood bank.
2) Write about the five types of our body fluids.
3) Describe the types of Leukaemias and draw the diagram.
4) How can you do Harrie's Haematoxylin staining method for the tissue section.
5) Describe about the Laboratory tests to be performed during donor's screening.