

NATIONAL DEVELOPMENT AGENCY, PROMOTED BY GOVERNMENT OF INDIA CENTRAL BOARD OF EXAMINATIONS BSS NATIONAL VOCATIONAL EDUCATION MISSION

AHE001-BSS DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY TWO YEARS (FIRST YEAR) EXAMINATION NOV-2015

AHE001-01 COMMUNICATIVE ENGLISH AND COMPUTER FUNDAMENTALS

TIME: 3 Hours Marks: 100

INSTRUCTIONS

- * 33 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 $1 \times 10 = 10$

- 1) Verb is an word
- 2) Lotus is lovely flowers
- 3) I am going library
- 4) I seen the Tajmahal.
- 5) Let the door opened.
- 6) ALU stand for
- 7) I read Indian express
- 8) The World first Programmer is-----.
- 9) Computers can only understand language
- 10) You can enlarge a document using

II. DEFINE THE FOLLOWING

- 1) Define Auxiliary verb?
- 2) Define active and passive voice?
- 3) Define adverbs of degrees?
- 4) Define uncountable nouns?
- 5) What are the types of Gender?
- 6) Define software?
- 7) Attrib
- 8) What is hardware & Software
- 9) MS Access
- 10) Clause

 $5 \times 5 = 25$

- 1) Define kinds of nous?
- 2) Define kinds of adjectives
- 3) Formal menu
- 4) Explain RAM and ROM
- 5) Briefly explain the table menu in MS Excel
- 6) Explain 'find', 'replace' and 'go to'.
- 7) Find and replace
- 8) Different software and hardware

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS

- 1) Explain a computer and draw a block diagram
- 2) Functions of Word Processing?
- 3) Explain 'slide presentation creating' in MS Power Point
- 4) Describe the relevance of computerization in hospital field
- 5) Draw the block diagram of basic computer organisation and explain?



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AHE001-BSS DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY TWO YEARS (FIRST YEAR) EXAMINATION NOV-2015

AHE001-02 CLINICAL BIO CHEMISTRY - I

TIME: 3 Hours Marks: 100

INSTRUCTIONS

- * 33 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 $1 \times 10 = 10$

II. DEFINE THE FOLLOWING

 $2 \times 10 = 20$

- 1) What is meant by a base?
- 2) What is meant by common balance?

10) _____ are cheaper Anticoagulant

- 3) What are the classification of lipids?
- 4) Types of Solutions?
- 5) Importance of the pH?
- 6) Define the Universal Indicators?
- 7) Define Anti coagulant?
- 8) Aqueous solutions
- 9) Enzymatic method
- 10) Blood urea

 $5 \times 5 = 25$

- 1) Changes in blood on keeping?
- 2) Explain Indicators and its types?
- 3) What are the classification of carbohydrates.
- 4) Explain the types of solution (any 4)
- 5) Write Briefly on cells and cast in urine?
- 6) What is Preservation of specimen briefly?
- 7) Blood collection for various bio-chemical test
- 8) CSF Protein

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS

- 1) Introduction and separation of serum and plasma.
- 2) Explain about microscopical examination of urine with aid of diagram
- 3) Write about photo electric colorimeter with neat diagram.
- 4) Write about Refrigerator
- 5) Examination of gastric juice specimens.



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AHE001-BSS DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY TWO YEARS (FIRST YEAR) EXAMINATION NOV-2015

AHE001-03 CLINICAL MICRO BIOLOGY - I & PARASITOLOGY

TIME: 3 Hours Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted

10) Bacterias arestructures

* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS	1 x 10 = 10
1) PH means	
2) Study of bacteria is called	
3) Spirillashaped.	
4) Example for Protein Source	
5) Who prepared the first Vaccine from cowpox?	
6) Abnormal stool may be&	
7) X - rays, gamma rays & cosmic rays ace called as examples of	
8) Compliment fixaction is applied to diagnosis of syphilis is	
9) Trepanemapallidum is the causative organism of	

II. DEFINE THE FOLLOWING

- 1) Define Vaccine bath.
- 2) What is plasmid?
- 3) Define Live Vaccines.
- 4) What is phototrophic organisms?
- 5) What is staining?
- 6) Write about carbol fuschin.
- 7) Give example for Intestinal parasites.
- 8) Write about collection of stool sample.
- 9) Give examples for adult worms in intestine.
- 10) Define parasite

 $5 \times 5 = 25$

- 1) Write about methyl-red test.
- 2) Write about serial dilution technique?
- 3) Write about bacterial classification based on nutrition
- 4) Write about motility test (Hanging drop method)
- 5) Write on morphology culture characteristics of Vibrio?
- 6) Physical method of sterilization
- 7) PH Value
- 8) Bacterial contamination of specimen

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS

- 1) Explain about sterilization methods
- 2) Write about the classification of bacteria based on their shape.
- 3) Write about direct stool smear examination with procedure.
- 4) Explain licycle of Malarial parasite
- 5) Describe Ancylostoma duodenale



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AHE001-BSS DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY TWO YEARS (FIRST YEAR) EXAMINATION NOV-2015

AHE001-04 HAEMATOLOGY, BLOOD BANKING & HISTO PATHOLOGY - I

TIME: 3 Hours Marks: 100

INSTRUCTIONS

* 33 questions are there in total

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- * Write answers to each question in proportion to the mark allotted
- * During the first 15 minutes read the questions carefully

1. FILL IN THE BLANKS	$1 \times 10 = 10$
1) RBC pipette contains marks with Red Bit	

10) Ancylostoma duodenale is caused by _____ Anaemia.

II. DEFINE THE FOLLOWING

- 1) What are the components of Leishman's stain
- 2) Write any five types of Anaemias?
- 3) Write the expansion GTT test
- 4) ESR
- 5) What is PCV?
- 6) Write about universal donar.
- 7) Explain monocyte.
- 8) Write the use of medical laboratory.
- 9) Hayem's fluid
- 10) Prothrombin Time

 $5 \times 5 = 25$

- 1) Write about Histopathology dehydration method
- 2) Explain embedding of tissue specimens
- 3) Write the calculation of Leucocyte count.
- 4) Explain about cynomethamoglobin test.
- 5) Explain the steps for blood clothing factor.
- 6) Presentation of specimen in Histopath lab
- 7) Coagulation time and bleeding time
- 8) Give a note on WBC Diluting fluids?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS

- 1) Explain laboratory method of ESR(Wintrobe's method) with the help of diagram
- 2) Describe the method of cross matching
- 3) Precautions in laboratory care explain.
- 4) Explain the Histology techniques
- 5) Explain the Winrobes method of ESR with diagram



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AHE001-BSS DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY TWO YEARS (FINAL YEAR) EXAMINATION NOV-2015

AHE001-09 CLINICAL BIO CHEMISTRY - II

TIME: 3 Hours Marks: 100

INSTRUCTIONS

- * 33 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	$1 \times 10 = 10$
1) Albumin is ain plasma	
2) The normal level of potassium in blood is	
3) Jaundice is visible when serum billurubin exceeds	
4) Function of proteins are the	
r) CCT in a	

- 5) CSF is a ______

 6) Thyroid hormone is secreted by ______
- 7) Pandy's Test used in the estimation of ______.
- 8) An yellow colour in the CSF is called _____.
- 9) Condition of hypothyrodism in adults.....
- 10) Name a tumour marker.....

II. DEFINE THE FOLLOWING

- 1) Clinical biochemistry
- 2) PH
- 3) Standard solution
- 4) Principle of Ortho Toluidine method
- 5) Classification of tabular function?
- 6) Define Anticoagulants? Any two?
- 7) Define ketonaemia?
- 8) Glycolysis
- 9) PUFA
- 10) Thyroid Hormones

 $5 \times 5 = 25$

- 1) CSF collection
- 2) Specific gravity of urine
- 3) Reagents used for serum bilirubin
- 4) Classification of amino acids?
- 5) Biochemical analysis of body fluids?
- 6) Collection and preservative for urine?
- 7) Disorders of thyroid functions?
- 8) Hippuric acid synthesis test?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS

- 1) Explain the liver function tests.
- 2) Explain the lipid profile test.
- 3) Analysis of CSF? Any two? a)Estimation of sugar in CSF b)Estimation of proteins in CSF c)Estimation of chloride in CSF d)Detection of globulin in CSF
- 4) Estimation of cholesterol in serum modified zak method?
- 5) Explain the photoelectric, colorimeter?



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AHE001-BSS DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY TWO YEARS (FINAL YEAR) EXAMINATION NOV-2015

AHE001-10 CLINICAL MICRO BIOLOGY - II

TIME: 3 Hours Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
- * Write answers to each question in proportion to the mark allotted

10) Body fluids and Vaccines is sterilized by _____ method.

* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS	1 x 10 = 10
1) It is rigid spiral form	
2) In Nutrient agar plate colony having unbroken peripheral edge is called as	
3) Voges - Proskaur test is used to differentiate	
4) The cerebrospinal fluid is collected by	
5) The pathogenic fungi are	
6) are incapable of inducing antibody formation.	
7) Concentration of IgD is	
8) is the test to diagnose viral Hepatitis.	
9) Microscope was invented by	

II. DEFINE THE FOLLOWING

- 1) Binary fission
- 2) Basic dye
- 3) Give example for Gram positive cocci.
- 4) Write about Neisseria
- 5) What is medical mycology
- 6) Define Immunity
- 7) Write about IgD
- 8) What is RA factor?
- 9) Bacterial growth curve.
- 10) VDRLtest

 $5 \times 5 = 25$

- 1) Types of specimen in the bacteriology lab
- 2) MR test
- 3) Indole test
- 4) Explain the identification of bacteria on Nutrient agar plate culture.
- 5) Explain about some of the fungal organism with example.
- 6) Write about some of the medically important viruses.
- 7) Explain about purified tuberculin Method.
- 8) VDRL test

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS

- 1) Preparation culture in bacteria?
- 2) Write about gram negative bacillus with example.
- 3) Write about T Cells.
- 4) Write about various types of Immunoglobulins.
- 5) Write about various test involved in serological examination.



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AHE001-11 HAEMATOLOGY, BLOOD BANKING & HISTOPATHOLOGY - II

TIME: 3 Hours Marks: 100

INSTRUCTIONS

- * 33 questions are there in total
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- * During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS	$1 \times 10 = 10$
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1) Prothrombin and fibrinogen are bloodfactors
2) The anemia occurs both in acute conditions
3)is a cell counting chamber.
4) Thrombocyte called as
5) 'o' group person is a
6) Each human calls have XY
7) Block holder used in
8) is the normal eosinophil cound in D.C
9) Formed Elements contains, &
10) is an autoantibody present in patient having SLE.

II. DEFINE THE FOLLOWING

- 1) Electrolytes
- 2) Define poises-synthesis?
- 3) The reason for Haemophilia in blood.
- 4) Write about Bombay group blood.
- 5) Give full definition for CSF
- 6) Write the principle of ESR test.
- 7) Write about the types of microtome knifes.
- 8) Microtome
- 9) Polychromatic stains.
- 10) Pernicious anaemia.

 $5 \times 5 = 25$

- 1) Designing of blood bank
- 2) Sahil's acid haematin method
- 3) Preparation of film in differential leuco cyte
- 4) Selection of blood donors
- 5) Explain Granulocytes and Morphology.
- 6) Write short note about klima's needle.
- 7) Preparation of Leishman's stain
- 8) Vaginal Smear preparation

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS

- 1) Explain total leucocyte count with the help of picture
- 2) C.S.F physical and chemical examination.
- 3) What is Anaemia and how will you diagnose in a lab?
- 4) Write briefly on the determination of E.S.R. by westergren's method.
- 5) Describe the different methods of blood collection.