

JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

MJ-22

Subject: Clinical Micro-Biology-II
Scheme: New

Semester: 2nd
M. Marks: 100

Roll No.

Branch: MLT

Time: 03 Hours

Instructions:

1. Attempt any Five Questions.
2. Figures to the right indicate marks.

- ~~Q1.~~ What is nosocomial infection? Explain the types and source of nosocomial infection? (20)
- ~~Q2.~~ Define pathogenicity, pathogenesis and virulence? Write the source and types of infection? (20)
- ~~Q3.~~ Short note on:
A) General characteristics of bacteria.
B) Control of nosocomial disease. (2x10)
- ~~Q4.~~ What is a urinary tract infection? Explain the laboratory diagnosis of urinary tract infections? (20)
- ~~Q5.~~ Write the morphology, biochemical test, cultural and lab diagnosis of streptococcus occurs? (20)
- ~~Q6.~~ Explain the morphology culture and lab diagnosis of mycobacterium tuberculosis? (20)
- ~~Q7.~~ Name the species of Neisseria and explain any one of them? (20)
- ~~Q8.~~ Explain the respiratory tract infection and give its lab diagnosis in brief? (20)
- ~~Q9.~~ Write note on:
A) Treponema palladium.
B) Lab diagnosis of wound infection. (2x10)
- ~~Q10.~~ Write the morphology, culture and biochemical study of E.coli? (20)

JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

MJ-22
Subject: Anatomy & Physiology-II
Scheme: New

Semester: 2nd
M. Marks: 100

Branch: MLT
Time: 03 Hours

Instructions:

1. Attempt any Five Questions.
2. Figures to the right indicate marks.

- Q1. Explain the structure and function of central nervous system of brain? (20)
- Q2. Describe the anatomy and physiology of structure of heart with labelled diagram? (20)
- Q3. Write the structure and function of Eye with labelled diagram? (20)
- Q4. Write notes on:
a) Blood pressure
b) Peripheral nervous system. (2x10)
- Q5. Define endocrine glands. Explain the pituitary and adrenal gland in detail? (20)
- Q6. Distinguish among skeleton, smooth and cardiac muscles? (20)
- Q7. Explain the various parts of female reproductive system? (20)
- Q8. Write briefly about the following:
a) Mensuration cycle
b) Thyroid gland. (2x10)
- Q9. Write notes on:
a) Blood circulation
b) Lymphatic system (2x10)
- Q10. Describe the structure and function of Ear? (20)

JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

MJ-22

Subject: Communication Skills-II
Scheme: New

Semester: 2nd
M. Marks: 100

Roll No. 18559
Branch: All
Time: 03 Hours

Instructions:

1. Attempt all Questions.
2. Figures to the right indicate marks.

- Q1. Answer the following question briefly:
- A. Describe the grandmother's routine in the village.
 - B. Describe how the grandmother celebrated the writers return from abroad.
 - C. Why were all the girls so fond of Isabel at school.
 - D. Why were the Burmells not satisfied with the school their children went to.
 - E. Why did the old farmer feed his grand-child and not himself with the copper coin.
 - E. Describe the manner in which the old man fed his grand-child. [4x2½=10]
- Q2. What are the delights of walking tours? Or
Describe the life of Henry Dunant after his disappearance from the public view? [10]
- Q3. Give the summary of Poem, "All the world's A stage"? Or
Give the summary of poem "Pipa's Song"? [10]
- Q4. Precise the following paragraph to its one third and also give a suitable title:
But to read nothing but books of fiction is like eating nothing but cakes and sweetmeats. As we need plain, wholesome food for the body, so, we must have serious reading for the mind. And here we can choose according to our taste. There are many noble books on history, biography, philosophy, religion, travel and science which we ought to read and which will give us not only pleasure but an education. And, we can develop a taste for serious reading, so that in the end it will give us none solid pleasure than even novels and books of fiction. [10]
- Q5. Write a letter to your friend describing your first day in the college.
Or
Write a letter to toy company to send its price list and catalogue. [10]
- Q6. Write a report in the form of a memo on the Cricket tournament held in your institution? Or
Draft a circular on informing the employees about change in office thing? [10]

Q7. Translate the following words into Urdu or Hindi:

A. Acid

B. Alum

C. Ampere

D. Balance

E. Base

F. Bridge

G. Chain

H. Flask

I. Viscosity

J. Concrete

[10]

Q8. What do you mean by written communication? What are its advantages?

Or

Explain horizontal and diagonal communication?

[10]

Q9. What do you mean by listening? Explain barriers to listening?

Or

What do you mean by downward communication? What are its advantages?

[10]

Q10. A. Change the voice (any five):

1. He threw the ball.

2. Tom painted the wall.

3. Inayat likes coffee.

4. The doctor is examining the patient.

5. She write a letter. The letter is being written by her.

6. The teacher drew figures.

7. She is solving the sum.

[05]

B. Change the narration indirect speech (any five):

1. The child said, "Papa is busy now".

2. He said to me, "Have you seen the Taj Mahal".

3. I said to my friend, "Barking dogs seldom bite".

4. She said, "Why are you late".

5. He said, "Earth moves round the sun".

6. He says, "I am leaving".

7. Rita said, "I am going to Delhi".

[05]

JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

Roll No.....11559.....

Branch: MLT

Time: 03 Hours

MJ-22

Subject: Haematology-II

Scheme: New

Semester: 2nd

M. Marks: 100

Instructions:

1. Attempt any Five Questions.
2. Figures to the right indicate marks.

- Q1. Write the principle, procedure and clinical importance of hemoglobin by sahli's method and Cyanmethaemoglobin method? (20)
- Q2. Explain the principle and operation of the automated blood cell counter? (20)
- Q3. Write the preparation, staining and examination of blood smear? (20)
- Q4. Describe the formation, function and its degradation of haemoglobin. (20)
- Q5. Explain the quality assurance in haematology? (20)
- Q6. Write the principle, procedure and normal values of total leucocytes counts. (TLC)? (20)
- Q7. Describe briefly different types of haemoglobin? (20)
- Q8. Write notes on:
- A) Error involve in hemocytometry
 - B) Preparation of peripheral blood film (2x10)
- Q9. Write the principle and procedure of counting platelets? (20)
- Q10. Write notes on:
- A) Blood cell counter
 - B) Blood cell morphology disease (2x10)

JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

MJ-22

Subject: Clinical Bio-Chemistry-II
Scheme: New

Semester: 2nd
M. Marks: 100

Roll No. 18559.....
Branch: MLT
Time: 03 Hours

Instructions:

1. Attempt any Five Questions.
2. Figures to the right indicate marks.

- Q1. Write the principle, procedure and clinical importance of serum creatinine by alkaline picrate method? (20)
- Q2. Explain the quality assurance in biochemistry in brief? (20)
- Q3. Define protein? Write the various types of protein in brief? (20)
- Q4. Write the estimation of serum albumin by bromo cresol green method? (20)
- Q5. Explain the following:
- A) Metabolism of glucose
 - B) Metabolism and function of electrolytes. (2x10)
- Q6. Define G.T.T? Describe the principle procedure and clinical importance of glucose tolerance test? (20)
- Q7. Explain the formation and excretion of urea in brief? (20)
- Q8. Write the principle, method of estimation of blood glucose by GOD-POD method? (20)
- Q9. Describe in detail about metabolism and function of electrolytes? (20)
- Q10. Write principal procedure and clinical importance of serum uric acid by caraway's method? (20)

JAMMU & KASHMIR BOARD OF TECHNICAL EDUCATION

MJ-22

Subject: Organic Chemistry

Scheme: New

Semester: 2nd

M. Marks: 100

Roll No. 18559.....

Branch: MLT

Time: 03 Hours

Instructions:

1. Attempt any Five Questions.
2. Figures to the right indicate marks.

- ~~Q1.~~ What are lipids? Explain its classification and function? (20)
- ~~Q2.~~ What are organic compounds and its importance in daily activities? (20)
- ~~Q3.~~ Write the classification, preparation and properties of alcohol? (20)
- Q4. What are the methods of preparation of amines? Give its properties? (20)
- ~~Q5.~~ What are proteins? Explain its primary secondary and tertiary structure of protein? (20)
- Q6. Write notes on:
- A) Hydrocarbon
- B) Cholesterol (2x10)
- ~~Q7.~~ Write in detail enzymes? Give its properties and function of enzyme in bio system? (20)
- Q8. Discuss the factor which affect the enzyme activity? (20)
- ~~Q9.~~ Define the following term:
- A) Properties of carbon
- B) Classification of carbohydrates (2x10)
- Q10. Explain the following:
- A) Preparation, properties and use of saturated hydrocarbons
- B) Definition and importance of lipids (2x10)