

J&K BOARD OF TECHNICAL EDUCATION**Class: 4th Semester****Branch: MLT****Time: 3 Hrs.****Sub:- Medical Laboratory Management****M.Marks: 100****Note: Attempt any five questions. All questions carry equal marks:**

~~Q1.~~ Explain the role of medical laboratory technology in healthcare.

Q2. Write short notes on:

- a) Various equipment's used in medical laboratory technology
- b) Principles of management

Q3. Define briefly:

- a) Laboratory Organization
- b) Job description

~~Q4.~~ Describe briefly about layout of blood bank.

Q5. Write short notes on:

- a) Material management.
- b) Financial resources

~~Q6.~~ Write short notes on:

- a) Internal quality control
- b) External quality control

~~Q7.~~ Write various safety precautions in microbiology laboratory.

~~Q8.~~ Explain the role of computer in Medical Lab. Technology.

Q9. Write about the care and maintenance of various equipment's used in medical lab technology.

Q10. Write short notes on

- a) Confidentiality
- b) Legal implications

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MJ23

J&K BOARD OF TECHNICAL EDUCATION

Class: 4th Semester

Branch: MLT

Time: 3 Hrs.

Sub:- Hematology

M.Marks: 100

Note: Attempt any five questions. All questions carry equal marks:

Q.1 What is haemostasis? Describe the role of platelets in haemostasis.

Q.2 Explain the mechanism of blood coagulation.

Q.3 Write short notes on :-

a) Function of bone Marrow.

b) Significance of bone marrow examination.

Q.4 Describe the clinical significance, principle and procedure of bleeding time by Duke's methods.

Q.5. Write shot note on any two:-

a) International normalized ratio (INR) b) Clot retraction test (CRT).

Q.6 Define Leukaemia, Describe the FAB classification of Leukaemia.

Q.7 Write the clinical significance and procedure of LE cell.

Q.8 Explain briefly Laboratory diagnosis of Acute Leukaemia.

Q.9 Explain Briefly

a) Semen Analysis

b) Cell count of CSF

Q.10 Write the principle, procedure and clinical importance of clotting time by capillary method.

J&K BOARD OF TECHNICAL EDUCATION**Class: 4th Semester****Branch: MLT****Time: 3 Hrs.****Sub:- Histopathology and cytology****M.Marks: 100****Note: Attempt any five questions. All questions carry equal marks:**

~~Q.1~~ Write principle and uses of light Microscope.

Q.2 Explain briefly:

a) Dark Field Microscopy

b) Fluorescent Microscopy

~~Q.3~~ Write principle, procedure and interpretation of Gram's stain.

~~Q.4~~ Write significance, procedure and interpretation of PAS stain.

~~Q.5~~ Define Decalcification, describe briefly the process of decalcification.

~~Q.6~~ Briefly explain:

a) Assessment of decalcification

b) Autopsy and its uses

Q.7 Explain briefly:

a) Rapid H & E

b) Mounting of frozen sections

~~Q.8~~ Write short notes on

i) Museum Techniques

ii) Cataloguing of Museum Specimen

Q.9 Define Briefly

a) Principle and uses of FNAC

b) Importance and uses of hormonal assessment.

Q.10 Briefly Explain the following:

a) Cytospin and Use of cytospin

b) Malignant Cell

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J&K BOARD OF TECHNICAL EDUCATION

Semester: 4th
Subject: G.S & E.D
Time: 3 Hours

Branch: ALL
Scheme: New
M.M.: 100

Note: Attempt any five questions.

- Q1(a) Explain the term self-concept. How it is developed? (10)
(b) Explain the lifelong learning and its importance. (10)
- Q2. What is trait? Explain different types of traits. (10)
- Q3. What are the stages of team development? Explain briefly. (20)
- Q4. Describe briefly four phases of task. (20)
- Q5. Explain different methods of problem solving. (20)
- Q6(a) What are the environmental factors that affect entrepreneurship? (10)
(b) Give a list of qualities a good entrepreneur must possess. (10)
- Q7. Explain briefly about NSIC schemes. (20)
- Q8. What is meant by small scale industry? What is the importance of small-scale industries? (20)
- Q9. Define sale forecasting. Explain different methods used for forecasting the demand of a product. (20)
- Q10. What is meant by project report? Explain the contents of a project report. (20)

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MJ23

J&K BOARD OF TECHNICAL EDUCATION

Class: 4th Semester

Time: 3 Hrs.

Branch: MLT

Sub:- Cl. Microbiology

M. Marks: 100

Note: Attempt any five questions. All questions carry equal marks:

Not: Attempt any five questions. All questions carry equal marks.

Q1: Define immunity. Describe various types of immunity.

Q2: Explain Briefly :

- A) L C B tease Mount technique.
- B) KOH Mount.

Q3: Explain the following:

- a) VDRL
- b) Antistreptolysine o (ASO) Test.

Q4: Explain Briefly

- a) Agglutination reactions
- b) ELISA

Q5: Explain the principle, interpretation and importance of Widal's Test.

Q6: What are Fungi? Briefly describe the general characteristics of fungi.

Q7: Describe the various culture media commonly used in Mycology for the growth of Fungi.

Q8: Write short note on the following

- a) India Ink
- b) Flocculation reactions

Q9: Write short note on

- a) Dermatophytes
- b) Candida

Q10: Explain the following

- a) Antigens
- b) Antibodies.