

PARAMEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, AUGUST 2019

III YEAR DIPLOMA IN
MEDICAL LABORATORY TECHNOLOGY (DMLT)

TIME: 3 HRS

(RS-2 SCHEME)

MAX.MARKS: 100

QP CODE: 6103, PATHOLOGY

I. SHORT NOTES: ANSWER ANY EIGHT

8X5=40

1. Write in detail about Bone marrow examination.
2. Discuss about osmotic fragility test.
3. PT and APTT
4. LIS and HIS
5. Quality control in Blood Bank.
6. Microwave tissue processing.
7. Biological hospital waste management.
8. Frozen section.
9. Automation in coagulation tests.
10. Separation of blood components.

II. SHORT ANSWERS

20X3=60

11. Differential leucocyte count.
12. Materials required for bone marrow examination.
13. Bleeding time.
14. Foetal Hb.
15. Clot retraction time.
16. Causes of Eosinophilia.
17. Perls stain procedure.
18. Sites of bone marrow aspiration.
19. Importance of calibration and validation in pathology.
20. Indications for bone marrow examination.
21. Equipments used in Blood Bank.
22. Forward and Reverse grouping.
23. Coomb's test.
24. Selection of Donor.
25. Storage of blood components.
26. Embedding.
27. PAS stain procedure.
28. Different types of mounting Jars.
29. Preparation of Harris Haematoxylin.
30. Errors in section cutting

VIDYA INSTITUTE OF PARA MEDICAL SCIENCES
(College Code - 342)
Mysore Road, Malavalli - 571430, Mandya Dist.

VIDYA INSTITUTE OF PARA MEDICAL SCIENCES
Mysore Road, Malavalli - 571 430, Mandya Dist.

KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY
PARAMEDICAL BOARD, BENGALURU
SUPPLEMENTARY EXAMINATION, JANUARY 2020
III YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT)
QP CODE: 6103, PATHOLOGY (RS-2 SCHEME)
(WRITE IN GREEN ANSWER BOOK)

TIME: 3 HRS

MAX. MARKS: 100

I. SHORT NOTES: ANSWER ANY EIGHT

8X5=40

1. Indication and contraindication for Bone marrow aspiration.
2. Write in detail about mechanism of normal coagulation.
3. Osmotic fragility test.
4. Differential Leucocyte count.
5. PT and APTT.
6. Write in detail about Transfusion reaction.
7. Quality control in Histopathology.
8. Frozen section.
9. Mounting of Museum specimens.
10. Hospital waste management.

II. SHORT ANSWERS.

20X3=60

11. Staining of bone marrow slides.
12. Foetal Hb.
13. Causes of neutrophilia.
14. Laboratory Information System (LIS).
15. Mention the normal values of coagulation tests.
16. Materials required for bone marrow examination.
17. Normal values of DC.
18. Giemsa stain procedure.
19. Anticoagulants.
20. Automation in coagulation tests.
21. Organization of Blood bank.
22. Cross matching.
23. Screening tests for donor.
24. Separation of components.
25. Transfusion reaction.
26. Disposal of unused Blood.
27. Clearing.
28. Alcian blue stain.
29. Mounting solutions used in Museum.
30. Different types of Haematoxylin.

VIDYA INSTITUTE OF PARA MEDICAL SCIENCES
(College Code - 342)
Mysore Road, Malavalli - 571430, Mandya Dist.

VIDYA INSTITUTE OF PARA MEDICAL SCIENCES
Mysore Road, Malavalli - 571 430, Mandya Dist.

KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY
PARAMEDICAL BOARD, BENGALURU

ANNUAL EXAMINATION, NOVEMBER 2020

III YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 6103 PATHOLOGY

(WRITE IN GREEN ANSWER BOOK)

SHORT NOTES: ANSWER ANY EIGHT

8x5=40

- 1 Write a neat labelled diagram of White Blood Cells seen in Peripheral smear. Add a note on procedure of Differential count
- 2 Mention Different blood grouping systems. Add a note on Bombay Blood group
- 3 Write in detail about Transfusion reactions and role of technician in transfusion reaction
- 4 Mention different types of Haematoxylin stain. How to prepare Haematoxylin and Eosin Stain? Write the steps of staining procedure
- 5 Write in detail about Manual tissue Processing. Mention different types of clearing agents
- 6 Define Cross matching. Mention different methods of Cross matching in Blood Bank
- 7 Write in detail about the collection, screening tests and storage of blood in Blood Bank
- 8 Describe osmotic fragility test. Add a note on its Importance
- 9 Mention different investigation of bleeding disorder. Add a note on Fibrinogen degradation Product
- 10 Write in detail about the collection, physical examination, chemical examination and microscopy of semen analysis

SHORT ANSWERS

20 x3=60

- 11 Mounting of museum Specimen
- 12 Microscopic examination of urine
- 13 Prothrombin time (PT)
- 14 Methods of decalcification
- 15 Screening test for blood donors
- 16 Write about coomb's test and its importance
- 17 Name special stains used in histopathology
- 18 Mention two errors in tissue cutting and their corrective measures
- 19 Write about Microwave tissue Processing
- 20 Uses of Neubauer chamber. Write formula for Absolute Eosinophil Count (AEC)
- 21 What is shift to left? Mention two abnormal WBCs
- 22 Write about Forward and reverse grouping and their importance
- 23 Name different types of vacutainers and their uses
- 24 Mention the importance of calibration of instruments in hematology
- 25 Name the blood components in blood bank. Add a note on Donors Rejection Criteria
- 26 Histokinete- Merits and Demerits
- 27 What is sickling test? Write the procedure of sickling test
- 28 Preparation and staining of bone marrow smear
- 29 Name different types of microtomes used in histopathology. Add a note on cryostat
- 30 Name three anticoagulants

VIDYA INSTITUTE OF PARA MEDICAL SCIENCES
(College Code - 342)
Mysore Road, Malavalli - 571430, Mandya Dist.

VIDYA INSTITUTE OF PARA MEDICAL SCIENCES
Mysore Road, Malavalli - 571 430, Mandya Dist.

KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY
PARAMEDICAL BOARD, BENGALURU
SUPPLEMENTARY EXAMINATION, JULY 2021

III YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT)
TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6103 PATHOLOGY

(WRITE IN GREEN ANSWER BOOK)

SHORT NOTES: ANSWER ANY EIGHT

8x5=40

- 1 Osmotic fragility test
- 2 Prothrombin time
- 3 Vitamin D deficiency
- 4 Donor selection in blood bank
- 5 What are blood transfusion reactions?
- 6 Steps in histopathology tissue processing
- 7 What are the different types of Hematoxylin? Write procedure for Hematoxylin and Eosin (H&E) Staining
- 8 Write briefly about principle and procedure of Direct Coomb's test
- 9 Importance of Differential Leukocyte count
- 10 Draw a neat labelled diagram of normal sperm. Mention the different abnormalities seen in semen analysis

SHORT ANSWERS

20 x3=60

- 11 Mention about errors in histopathology section cutting and their correction
- 12 What is Bleeding time (BT) and clotting time (CT)
- 13 What is Forward blood grouping?
- 14 Write the normal range of Activated Partial Thromboplastin time (APTT)
- 15 Mention some minor blood grouping system
- 16 Give three examples of Fixatives used in Histopathology
- 17 Mention the composition of Leishman Stain
- 18 Mention different sites for bone marrow aspiration
- 19 Mention the different anticoagulants used in Hematology
- 20 What is Laboratory Information System (LIS)
- 21 What is Perl's stain? Mention its use?
- 22 What are blood components? Mention uses of each component
- 23 Histokinetite
- 24 Storage of blood in blood bank
- 25 Indications for frozen sections
- 26 Mention three connective tissue stains
- 27 Mention various mounting solutions used mounting museum specimen
- 28 What is Microwave tissue processing in histopathology
- 29 Indirect coomb's test
- 30 ABO Blood grouping

VIDYA INSTITUTE OF PARA MEDICAL SCIENCES
(College Code - 342)
Mysore Road, Malavalli - 571430, Mandya Dist.

VIDYA INSTITUTE OF PARA MEDICAL SCIENCES
Mysore Road, Malavalli - 571 430, Mandya Dist.

KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY
PARAMEDICAL BOARD, BENGALURU

ANNUAL EXAMINATION, NOVEMBER 2021

III YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 6103 PATHOLOGY

(WRITE IN GREEN ANSWER BOOK)

SHORT NOTES: ANSWER ANY EIGHT

8x5=40

- 1 Write short notes on Osmotic fragility test
- 2 Write note on Prothrombin time
- 3 Vitamin D deficiency
- 4 Write short notes on Donor selection in blood bank
- 5 What are blood transfusion reactions?
- 6 Steps in histopathology tissue processing
- 7 What are the different types of Hematoxylin? Write procedure for Hematoxylin and Eosin (H&E) Staining
- 8 Write briefly about principle and procedure of Direct Coomb's test
- 9 Importance of Differential Leukocyte count
- 10 Draw a neat labelled diagram of normal sperm. Mention the different abnormalities seen in semen analysis

SHORT ANSWERS

20 x3=60

- 11 Mention about errors in histopathology section cutting and their correction
- 12 What is Bleeding time (BT) and clotting time (CT)
- 13 What is Forward blood grouping?
- 14 Write the normal range of Activated Partial Thromboplastin time (APTT)
- 15 Mention some minor blood grouping system
- 16 Give three examples of Fixatives used in Histopathology
- 17 Mention the composition of Leishman Stain
- 18 Mention different sites for bone marrow aspiration
- 19 Mention the different anticoagulants used in Hematology
- 20 What is Laboratory Information System (LIS)
- 21 What is Perl's stain? Mention its use?
- 22 What are blood components? Mention uses of each component
- 23 Covid- 19 Screening Test
- 24 Storage of blood in blood bank
- 25 Indications for frozen sections
- 26 Mention three connective tissue stains
- 27 Mention various mounting solutions used mounting museum specimen
- 28 What is Microwave tissue processing in histopathology
- 29 Indirect coomb's test
- 30 ABO Blood grouping

VIDYA INSTITUTE OF PARA MEDICAL SCIENCES
(College Code - 342)
Mysore Road, Malavalli - 571430, Mandya Dist.
