

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
Medical Laboratory Technology (RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Pathology

Q P CODE: 5105

- I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks**
1. Write in detail about collection, Processing and physical examination of stool.
 2. Physical examination of urine .
 3. Name Romanosky stains & write in detail about procedure of staining by Leishman stain.
 4. Enumerate Instruments & Equipments used in hematology laboratory.
 5. Mention methods of hemoglobin estimation, write merits & demerits of Drabkins method along with
- II. Short answers 10 X 3 = 30 marks**
6. Methods of preservation of urine.
 7. Automation in blood cell counts.
 8. Blood cell indices.
 9. Describe methods of reticulocyte staining .
 10. Packed cell volume.
 11. Various reducing substances in stool.
 12. Leishman stain preparation.
 13. Write Principle of Benedicts test.
 14. Name the crystals and casts in urine
 15. Urine analysis by dip sticks.

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Subject: Pathology

Q P CODE: 5106

- I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks**
1. Fixatives used in Cytology.
 2. Describe the collection, Preparation and staining sputum sincere.
 3. Grossing in histopathology.
 4. What is an ideal fixative.
 5. Describe the collection & physical examination of semen..
- II. Short answers 10 X 3 = 30 marks**
6. Physical examination of CSF.
 7. Write a neat diagram of normal sperm.
 8. Preservation & transport of body fluids.
 9. Stains used in cytopathology.
 10. Barr body demonstration.
 11. Equipments used in histopathology.
 12. Advantages & disadvantages of formalin.
 13. Hematoxylin preparation & H & E staining.
 14. End point decalcification.
 15. Master register in histopathology.

SUPPLEMENTARY EXAMINATION, FEBRUARY 2019
II YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
TIME 3 HRS
MAX.MARKS.100
(RS-II SCHEME)

QP CODE: 5105, SECTION-A, PATHOLOGY
(WRITE IN A SEPARATE ANSWER BOOKLET)

IV. Short Notes: Answer any FOUR questions **4x5=20**

1. Describe principle, procedure and importance of Benedict's test.
2. Write various methods of urine sample collection with mention on types of preservatives.
3. Write about stool examination for occult blood.
4. Describe types and use of different types of vacutainers.
5. Preparation and staining of peripheral smear.

II. Short Answers **10x3=30**

6. Mention four anticoagulants. Mention two uses of EDTA as an anticoagulant.
7. Describe urine sample preparation for urine microscopy.
8. Write about composition of Leishman stain with a note on preparation of the working solution of the stain.
9. Mention the blood indices and their importance.
10. Write about equipments used, procedure and importance of absolute eosinophil count.
11. Automation in complete blood count (CBC) analysis.
12. Write about advantages and disadvantages of cyanmethhemoglobin method of hemoglobin estimation.
13. Write about physical examination of urine sample.
14. Write on stool microscopy for ova and cyst.
15. Write principle and types of dipstick method of urine analysis.

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QPCODE: 5106, SECTION-A, PATHOLOGY
(WRITE IN A SEPARATE ANSWER BOOKLET)

I. Short Notes: Answer any FOUR questions **4x5=20**

1. Write a note on sample collection, physical and microscopic examination of CSF.
2. Mention stains used in cytopathology. Describe PAP staining procedures.
3. Mention equipments used in histopathology with note on tissue processing.
4. Composition of Harris haematoxylin. Write about H&E procedure.
5. End point decalcification.

II. Short Answers **10x3=30**

6. Write about Preparation and staining of Sputum smear. Add a note on sputum microscopy.
7. Write a note on Physical examination of pleural fluid.
8. Demonstration of BARR bodies.
9. Write about advantages of DRY and WET smear in cytopathology.
10. Write a note on grossing technique in histopathology.

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PARAMEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, AUGUST 2019
II YEAR DIPLOMA IN
MEDICAL LABORATORY TECHNOLOGY (DMLT)
TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5105, PATHOLOGY

I. SHORT NOTES- ANSWER ANY EIGHT QUESTIONS **8X5=40**

1. Fixatives used in Histopathology.
2. Tissue processing.
3. Different types of anticoagulants.
4. Methods of Blood collection.
5. Physical examination of urine.
6. Methods of haemoglobin estimation.
7. Reticulocyte count.
8. Preparation and staining of peripheral smear.
9. Sputum examination.
10. CSF examination.

II. SHORT ANSWERS **20X3=60**

11. Microscopic examination of urine.
12. Stool for occult blood.
13. Equipments used in Histopathology lab.
14. Different types of vacutainers.
15. Preparation of WBC diluting fluid.
16. Name Romanowsky stains.
17. Platelet count.
18. Morphology of abnormal RBC's.
19. MCV- calculation and importance.
20. Blood grouping.
21. Sperm morphology.
22. Fixation of cytology smears.
23. Name body fluids.
24. Barr bodies.
25. Decalcification.
26. AEC.
27. Preservation and Transport of CSF.
28. Pap smear- uses.
29. PCV.
30. Microscopy of ova cyst

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PARAMEDICAL BOARD, BENGALURU
SUPPLEMENTARY EXAMINATION, JANUARY 2020
II YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
(DMLT)

QP CODE: 5105, PATHOLOGY (RS -2 SCHEME)

(WRITE IN GREEN ANSWER BOOK)

TIME: 3 HRS

MAX. MARKS: 100

I. SHORT NOTES- ANSWER ANY EIGHT QUESTIONS 8X5=40

1. Describe in detail Semen analysis.
2. Write in detail about physical and microscopic examination of urine.
3. Use of Anticoagulants in different tests.
4. Pap stain procedure.
5. Preparation and staining procedure- Leishman stain.
6. Methods of Haemoglobin estimation.
7. Quality control in Haematology.
8. Sputum examination.
9. Tissue processing.
10. Automation in Haematology.

II SHORT ANSWERS 20X3=60

11. Dipstick method.
12. Preservation of urine sample.
13. Name six chemical tests for urine.
14. EDTA.
15. Different types of vacutainers.
16. WBC diluting fluid.
17. Reticulocyte.
18. MCV.
19. Blood grouping.
20. CSF examination.
21. Fixatives used in cytology.
22. Barr body.
23. Six equipments used in Histopathology.
24. Shorr stain.
25. Mounting agents.
26. Stains used in cytology
27. AEC count.
28. Decalcification.
29. ESR estimation.
30. Ideal smear.

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PARAMEDICAL BOARD, BENGALURU
ANNUAL EXAMINATION, NOVEMBER 2020
II YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
(DMLT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 5105, PATHOLOGY (WRITE IN GREEN ANSWER BOOK)

SHORT NOTES: ANSWER ANY EIGHT

8x5=40

- 1 Describe principle, procedure and clinical importance of heat and acetic acid test
- 2 How do you demonstrate Barr bodies?
- 3 Mention the stains used in haematology and write the procedure of one of the stain
- 4 Surface decalcification and end point decalcification
- 5 What are the different types of fixatives used in histopathology and cytology?
- 6 How do you plan a Histopathology lab?
- 7 Write a note on collection and examination of pleural fluid
- 8 Write the chemical tests done on stool sample
- 9 Describe the color coding for vacutainers and mention the anticoagulants used
- 10 Semen analysis - definition, collection, physical, chemical and microscopic examination

SHORT ANSWERS

20 x3=60

- 11 Write about preparation and staining of sputum smear
- 12 Automation in complete Blood count analysis
- 13 Packed Cell Volume - Principle and procedure
- 14 Quality Control in cytology
- 15 Write the procedure of Absolute eosinophil counting (AEC)
- 16 Landsteiner's Law
- 17 Mention the types of Haematoxylins used
- 18 Composition of Drabkin's fluid
- 19 What are RBC indices?
- 20 Write a note on stool microscopy for ova and cyst
- 21 Write a note on Grossing techniques in Histopathology
- 22 Write the advantages and disadvantages of Sahli's method of Hb estimation
- 23 Mention the uses of H and E, ZN and PAP stain
- 24 Preservation and transportation of CSF
- 25 Anticoagulants used in haematology
- 26 How do you prepare RBC diluting fluid? Mention the procedure
- 27 Buffers used in haematology lab
- 28 Fields stain and its uses
- 29 Draw and label different types of WBCs
- 30 Write morphology of normal and abnormal RBCs

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PARAMEDICAL BOARD, BENGALURU
SUPPLEMENTARY EXAMINATION, JULY 2021
II YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
(DMLT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 5105, PATHOLOGY (WRITE IN GREEN ANSWER BOOK)

SHORT NOTES: ANSWER ANY EIGHT

8x5=40

- 1 Fixatives used in Histopathology
- 2 Chemical tests for protein in urine
- 3 Sputum examination
- 4 Preparation and staining of peripheral smear
- 5 Reticulocyte count
- 6 Methods of haemoglobin estimation
- 7 Benedict's test- principle, procedure, importance
- 8 Tissue processing
- 9 Methods of Blood collection
- 10 Different types of anticoagulants

SHORT ANSWERS

20 x3=60

- 11 Microscopic examination of urine
- 12 Microscopy of ova cyst
- 13 Packed cell volume (PCV)
- 14 Pap smear- uses
- 15 Preservation and transport of cerebrospinal fluid (CSF)
- 16 Absolute eosinophilic count (AEC)
- 17 Decalcification
- 18 Barr bodies
- 19 Name body fluids
- 20 Fixation of cytology smears
- 21 Mention the instrument used in Haematology
- 22 Blood grouping
- 23 MCV- calculation and importance
- 24 Morphology of abnormal RBC's
- 25 Platelet count
- 26 Name Romanowsky stains
- 27 Preparation of WBC diluting fluid
- 28 Stool for occult blood
- 29 Equipments used in Histopathology lab
- 30 Different types of vacutainers

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ANNUAL EXAMINATION, NOVEMBER 2021
II YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
(DMLT)

TIME: 3 Hrs (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5105, PATHOLOGY (WRITE IN GREEN ANSWER BOOK)

SHORT NOTES: ANSWER ANY EIGHT 8x5=40

- 1 Write short notes on Physical examination of urine
- 2 Write note on Microscopy of stool sample for ova and cyst
- 3 Erythrocyte sedimentation rate (ESR)
- 4 Write short notes on Anticoagulants in hematology
- 5 Write a note on reticulocyte stain?
- 6 Write a note on WBC diluting fluid and importance of Total WBC Count
- 7 Write briefly about advantages and disadvantages of Sahli's haemoglobin estimation method
- 8 Packed cell volume. (PCV)
- 9 CSF Examination
- 10 Microscopy of semen sample

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20 x3=60

SHORT ANSWERS

- 11 Demonstration of Barr Bodies
- 12 Fixatives in cytopathology
- 13 Mention methods to check for end-point decalcification in histopathology
- 14 Advantages of PAP (Papanicolou) stain in cytology
- 15 Mention three equipments used in Histopathology
- 16 Write the normal range of Absolute eosinophilic count. Mention two conditions with increased eosinophil count
- 17 Write the procedure to stain the slide with Leishmann stain
- 18 Mention any three tests performed with EDTA blood sample
- 19 Mention the RBC indices with normal values
- 20 Mention three minor blood grouping system
- 21 Master register in Histopathology
- 22 Advantages and disadvantages of Cyan Meth haemoglobin method
- 23 Preparation of Peripheral smear. Draw the diagram and label the parts
- 24 Methods for diagnosis of Covid -19
- 25 ABO blood grouping
- 26 Ideal peripheral smear
- 27 Mention normal Hemoglobin levels for adult males and females
- 28 Physical examination of sputum sample
- 29 Mention three conditions causing neutrophilia
- 30 Mention preservatives used for urine samples

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