



J&K State Paramedical & Nursing Council

Government Medical College Srinagar/Jammu
Examination Session: - April_May'2018'

Paper: Laboratory Assistant 2nd year
Time: 3.00 Hours

Max. Marks: 100

"SECTION-A"

(60 Marks)

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

- Q.1. - How is hemoglobin estimated? Write down its clinical significance.
- Q.2. - How is bone marrow smears prepared? What is different indication of bone marrow aspiration.
- Q.3. - Write a note on Leishman's staining. How is peripheral blood film prepared?
- Q.4. - What are the test done for coagulation and explain briefly about Pro-thrombin time and activated partial thromboplastic time.
- Q.5. - Describe routine H&E Staining used in histopathology.
- Q.6. - Write a note on morphology, life cycle and lab diagnosis of echinococcus granulosus.
- Q.7. - Explain ABO and RH blood grouping in detail.

"SECTION-B"

(40 Marks)

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

Write short notes on:-

- Q.1. Hot air oven .
- Q.2. Autoclave .
- Q.3. AIDS
- Q.4. Criteria for donor selection
- Q.5. Lab accidents
- Q.6. Montoux test.
- Q.7. FNAC

Anatomy With Sam



J&K State Paramedical & Nursing Council

Government Medical College Srinagar/Jammu
Special Examination :- Jan-Feb , 2018.

Paper: Laboratory Assistant 2nd year
Time: 3.00 Hours

Max. Marks: 100

"SECTION-A" (60 Marks)

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

- Q.1. Define bacteria. Write down the morphological study of bacteria.
- Q.2. What is Gram staining. Differentiate between gram-positive and gram-negative bacteria.
- Q.3. Describe the life cycle of malarial parasite.
- Q.4. Discuss the O₁₅ Test and discuss its importance.
- Q.5. Enumerate and classify different culture medium. Discuss in detail any one.
- Q.6. Diagrammatically explain leucocyte and methods of their counting.
- Q.7. Define virus. Write down the characteristics of viruses.

"SECTION-B" (40 Marks)

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

Write short notes on:-

- Q.1. Hot air oven
- Q.2. Compliment Fixation Test.
- Q.3. Criteria for donor selection
- Q.4. Blood Agar
- Q.5. Antigen- Antibody reaction.
- Q.6. Hand washing Techniques
- Q.7. Cytological Fixatives.

Anatomy with Sam

"SECTION-A"

(60 Marks)

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

- Q.1. Describe the various methods of sterilizations. (12)
- Q.2. Describe the life cycle of Entamoeba histolytica. (12)
- Q.3. Describe the staining methods used in bacteriology with examples. (12)
- Q.4. Describe the life cycle of Malarial parasites. (12)
- Q.5. Diagrammatically explain leucocytes and method of their counting. (12)
- Q.6. What are various blood groups? Describe the methods of determining blood groups. What is their importance? (12)
- Q.7. Define bacteria. Write in detail morphological study of bacteria. (12)
- Q.8. What is Gram's staining? Differentiate between Gram +ve and Gram -ve bacteria. (12)
- physio

"SECTION-B"

(40 Marks)

Note: Write short notes on any of the five. All notes carry equal marks:

- Q.1. Hot air oven. (8)
- Q.2. Blood agar. (8)
- Q.3. Complement fixation test. (8)
- Q.4. Bacillary dysentery. (8)
- Q.5. Salmonella. (8)
- Q.6. Botulism. (8)
- Q.7. Qualities of an ideal fixative. (8)
- Q.8. VDRL test. (8)
- Q.9. Criteria for donor selection. (8)



J&K State Paramedical & Nursing Council

Government Medical College Srinagar/Jammu
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"SECTION-A" (60 Marks)

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

- Q.1. Define bacteria. Write down the morphological study of bacteria.
- Q.2. What is Gram staining. Differentiate between gram-positive and gram-negative bacteria.
- Q.3. Describe the life cycle of malarial parasite.
- Q.4. Discuss the ^{Gram} Ohms Test and discuss its importance.
- Q.5. Enumerate and classify different culture medium. Discuss in detail any one.
- Q.6. Diagrammatically explain leucocyte and methods of their counting.
- Q.7. Define virus. Write down the characteristics of viruses.

"SECTION-B" (40 Marks)

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

Write short notes on:-

- Q.1. Hot air oven
- Q.2. Compliment Fixation Test.
- Q.3. Criteria for donor selection
- Q.4. Blood Agar
- Q.5. Antigen- Antibody reaction.
- Q.6. Hand washing Techniques.
- Q.7. Cytological Fixatives.

Anatomy with Sam
6005592158

J&K State Para Medical Council
Government Medical College Srinagar
Session: May 2015

Paper: Laboratory Assistant-I
Time: 3 Hours

Max. Marks: 100

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

- Q. No.: 1. a) Draw a neat & clean labelled diagram of heart. (10)
b) Describe the functions of heart and systemic circulation. (10)
- Q. No.: 2. Describe composition of blood in detail. Discuss methods of ABO and Rh grouping and cross matching. (20)
- Q. No.: 3. Define an enzyme. Classify the enzyme and add a brief note on factors influencing the enzyme activity. (20)
- Q. No.: 4. Write short notes on:
a) Sterilization of glassware. (7)
b) Detection of protein and sugar in urine. (7)
c) Calorimeter. (6)
- Q. No.: 5. Write short notes on:-
a) Bile salts & bile pigments in urine. (7)
b) Universal precautions. (7)
c) Difference between serum & plasma. (6)
- Q. No.: 6. Write short notes on:-
a) Maintenance & use of centrifuge. (7)
b) Structure of atom. (7)
c) Hand washing technique & its importance. (6)
- Q. No.: 7. Enumerate various endocrine glands and hormones secreted by these. Discuss in detail functions of thyroid gland. (20)

Anatomy with Sam
6005592158



J&K State Paramedical & Nursing Council

Government Medical College Srinagar/Jammu
Examination Session: - April_May'2018'

Paper: Laboratory Assistant 2nd year

Time: 3.00 Hours

Max. Marks: 100

"SECTION-A"

(60 Marks)

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

- Q.1. - How is hemoglobin estimated? Write down its clinical significance.
- Q.2. - How is bone marrow smears prepared? What is different indication of bone marrow aspiration.
- Q.3. - Write a note on Leishman's staining. How is peripheral blood film prepared?
- Q.4. - What are the test done for coagulation and explain briefly about Pro-thrombin time and activated partial thromboplastic time.
- Q.5. - Describe routine H&E Staining used in histopathology.
- Q.6. - Write a note on morphology, life cycle and lab diagnosis of echinococcus granulosus.
- Q.7. - Explain ABO and RH blood grouping in detail.

"SECTION-B"

(40 Marks)

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

Write short notes on:-

- Q.1. Hot air oven .
- Q.2. Autoclave .
- Q.3. AIDS
- Q.4. Criteria for donor selection*
- Q.5. Lab accidents
- Q.6. Montoux test. ✓
- Q.7. FNAC

Anatomy with Sam Shabir
6005592158

J&K State Paramedical Council

Government Medical College Srinagar/Jammu

Session: March-April 2016

Paper: Laboratory Assistant Part: II

Time: 3.00 Hours Max. Marks: 100

"SECTION-A"

(60 Marks)

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

- Q.1. Describe the various methods of sterilizations. (12)
- Q.2. Describe the life cycle of *Entamoeba histolytica*. (12)
- Q.3. Describe the staining methods used in bacteriology with examples. (12)
- Q.4. Describe the Life cycle of Malarial parasites. (12)
- Q.5. Diagrammatically explain leucocytes and method of their counting. (12)
- Q.6. What are various blood groups? Describe the methods of determining blood groups. What is their importance? (12)
- Q.7. Define bacteria. Write in detail morphological study of bacteria. (12)
- Q.8. What is Gram's staining? Differentiate between Gram +ve and Gram -ve bacteria. (12)

"SECTION-B"

(40 Marks)

Note: Write short notes on any of the five. All notes carry equal marks:

- Q.1. Hot air oven. (8)
- Q.2. Blood agar. (8)
- Q.3. Complement fixation test. (8)
- Q.4. Bacillary dysentery. (8)
- Q.5. Salmonella. (8)
- Q.6. Botulism. (8)
- Q.7. Qualities of an ideal fixative. (8)
- Q.8. VDRL test. (8)
- Q.9. Criteria for donor selection. (8)

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J&K State Paramedical & Nursing Council

Government Medical College Srinagar/Jammu

Session: May-June 2017

Paper: Laboratory Assistant 2nd year

Time: 3.00 Hours

Max. Marks: 100

"SECTION-A"

(60 Marks)

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

- Q.1. What is coomb's test and discuss its importance.
- Q.2. Define virus and write down about properties of virus. Explain structure of Hepatitis B Virus supported with diagram .
- Q.3. How will you prepare a good peripheral blood film and discuss the staining procedure.
- Q.4. Discuss the method for doing sex chromatin staining.
- Q.5. What is the role of laboratory in the health care delivery system in general.
- Q.6. Define bacteria. Write in detail morphological study of bacteria.
- Q.7. What is gram staining. Differentiate between gram +ve and -ve bacteria.

"SECTION-B"

(40 Marks)

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

Write short notes on:-

- Q.1. ESR
- Q.2. FNAC
- Q.3. AFB
- Q.4. Cross-matching.
- Q.5. RA Factor.
- Q.6. Montoux Test.
- Q.7. Antigen Antibody Reaction.

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J&K State Para Medical Council
Government Medical College Srinagar
Session: May 2015

Paper: Laboratory Assistant-I
Time: 3 Hours

Max. Marks: 100

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

- Q. No.: 1. a) Draw a neat & clean labelled diagram of heart. (10)
b) Describe the functions of heart and systemic circulation. (10)
- Q. No.: 2. Describe composition of blood in detail. Discuss methods of ABO and Rh grouping and cross matching. (20)
- Q. No.: 3. Define an enzyme. Classify the enzyme and add a brief note on factors influencing the enzyme activity. (20)
- Q. No.: 4. Write short notes on:
a) Sterilization of glassware. (7)
b) Detection of protein and sugar in urine. (7)
c) Calorimeter. (6)
- Q. No.: 5. Write short notes on:-
a) Bile salts & bile pigments in urine. (7)
b) Universal precautions. (7)
c) Difference between serum & plasma. (6)
- Q. No.: 6. Write short notes on:-
a) Maintenance & use of centrifuge. (7)
b) Structure of atom. (7)
c) Hand washing technique & its importance. (6)
- Q. No.: 7. Enumerate various endocrine glands and hormones secreted by them. Discuss in detail functions of thyroid gland. (20)
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J&K State Paramedical & Nursing Council

Government Medical College Srinagar/Jammu

Session: May-June 2017

Paper: Laboratory Assistant 2nd year

Time: 3.00 Hours

Max. Marks: 100

"SECTION-A"

(60 Marks)

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

- Q.1. What is coomb's test and discuss its importance. ✓
- Q.2. Define virus and write down about properties of virus. Explain structure of Hepatitis B Virus supported with diagram. ✓
- Q.3. How will you prepare a good peripheral blood film and discuss the staining procedure. ✓
- Q.4. Discuss the method for doing sex chromatin staining. ✓
- Q.5. What is the role of laboratory in the health care delivery system in general. ✓
- Q.6. Define bacteria. Write in detail morphological study of bacteria. ✓
- Q.7. What is gram staining. Differentiate between gram +ve and -ve bacteria. ✓

"SECTION-B"

(40 Marks)

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

Write short notes on:-

- Q.1. ESR ✓
- Q.2. FNAC ✓
- Q.3. AFB ✓
- Q.4. Cross-matching ✓
- Q.5. RA Factor ✓
- Q.6. Montoux Test. ✓
- Q.7. Antigen Antibody Reaction. ✓

J&K State Para Medical Council
Government Medical College Srinagar
Session: May 2015

Paper: Laboratory Assistant-II

Time: 3 Hours

Max. Marks: 100

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

- Q. No.: 1. What do you understand by sterilization? Discuss in detail various sterilization methods adopted in microbiology laboratory. (20)
- Q. No.: 2. Describe composition of blood in detail. Discuss methods of ABO and Rh grouping and cross matching and its importance. (20)
- Q. No.: 3. Enumerate and classify different culture media. Describe in detail any three special media with its uses. (20)
- Q. No.: 4. Write short notes on:
- a) Sterilization of glassware. (7)
 - b) Antibiotic sensitivity. (7)
 - c) Cytological fixatives. (6)
- Q. No.: 5. Write short notes on:-
- a) VDRL test. (7)
 - b) Universal precautions. (7)
 - c) FNAC. (6)
- Q. No.: 6. Write short notes on:-
- a) Antigen Antibody reaction. (7)
 - b) Screening of blood. (7)
 - c) Hand washing technique & its importance. (6)
- Q. No.: 7. a) Discuss in detail waste disposal and maintenance of safety in laboratory. (10)
- b) Quality assurance in laboratories. (10)

J&K State Paramedical Council

Government Medical College Srinagar/Jammu

Session: March-April 2016

Paper: Laboratory Assistant Part: I

Time: 3.00 Hours Max. Marks: 100

"SECTION-A"

(60 Marks)

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

- Q.1. Describe digestive system in detail with its functions with the help of diagram. (12)
- Q.2. Draw a labeled diagram of heart and describe its various functions and systemic circulation. (12)
- Q.3. Describe the analytical balance with the help of diagram. (12)
- Q.4. Describe the composition of urine in detail. What are various methods of testing it? (12)
- Q.5. Describe in detail Liver function test (LFT). Describe the estimation of Sr. Bilirubin. (12)
- Q.6. Diagrammatically explain leucocytes and method of counting these. (12)
- Q.7. Explain diagrammatically "Erythropoiesis". (12)
- Q.8. Describe the parts of microscope with the help of a Diagram. (12)

"SECTION-B"

(40 Marks)

Note: Write short notes on any of the five. All notes carry equal marks:

- Q.1. Haemocytometer. (8)
- Q.2. Functions of skin. (8)
- Q.3. Coomb's Test. (8)
- Q.4. Criteria for donors selection. (8)
- Q.5. Preparation and uses of thick smear. (8)
- Q.6. Sahli's method. (8)
- Q.7. Pregnancy test. (8)
- Q.8. Detection of ketone bodies in urine. (8)
- Q.9. Blood specimen collection guidelines. (8)

Government Medical College Srinagar

Session: May 2015

Paper: Laboratory Assistant-II

Time: 3 Hours

Max. Marks: 100

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

- Q. No.: 1. What do you understand by sterilization? Discuss in detail various sterilization methods adopted in microbiology laboratory. (20)
- Q. No.: 2. Describe composition of blood in detail. Discuss methods of ABO and Rh grouping and cross matching and its importance. (20)
- Q. No.: 3. Enumerate and classify different culture media. Describe in detail any three special media with its uses. (20)
- Q. No.: 4. Write short notes on:
- a) Sterilization of glassware. (7)
 - b) Antibiotic sensitivity. (7)
 - c) Cytological fixatives. (6)
- Q. No.: 5. Write short notes on:-
- a) VDRL test. (7)
 - b) Universal precautions. (7)
 - c) FNAC. (6)
- Q. No.: 6. Write short notes on:-
- a) Antigen Antibody reaction. (7)
 - b) Screening of blood. (7)
 - c) Hand washing technique & its importance. (6)
- Q. No.: 7. a) Discuss in detail waste disposal and maintenance of safety in laboratory. (10)
- b) Quality assurance in laboratories. (10)



Jammu & Kashmir Paramedical / Nursing Council

Government Medical College Jammu/Srinagar

Examination Session: - "2021"

Paper: Laboratory Assistant 2nd Year

Time: 3.00 Hours

Max. Marks: 100

Note: Attempt any 14 Questions. Each Question carries 5 Marks. (Only Short Notes)

- ✓ Q.1. Incubator
- ✓ Q.2. Microscope
- ✓ Q.3. Disposal of contaminated media
- ✓ Q.4. Nutrition of bacteria
- Q.5. Name various gram positive bacilli
- Q.6. Life cycle of Hook worm
- ✓ Q.7. Antibiotic Sensitivity Test
- ✓ Q.8. Blood Bank
- ✓ Q.9. Red Cell count
- ✓ Q.10. ESR
- Q.11. Preparation of Bone marrow smears
- ✓ Q.12. Chemical used in Tissue processing
- ✓ Q.13. Microtome
- ✓ Q.14. Frozen Section its preparation and staining
- ✓ Q.15. Coombs Test
- Q.16. Hemophilia and its detection
- ✓ Q.17. osmotic fragility Test
- ✓ Q.18. Fixatives used in Cytology
- Q.19. Diphtheria
- Q.20. RTPCR for COVID-19