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FOR AP CLASS 11 EXAM PREPARATION

# AP Class 11 2027 Model Paper · Medical Lab Technician

| EXAM | YEAR | TYPE | SUBJECT |
| --- | --- | --- | --- |
| AP Class 11 | 2027 | Model Paper | Medical Lab Technician |

MODEL QUESTION PAPER
MEDICAL LAB TECHNICIAN - I YEAR
PAPER - I BIOCHEMISTRY - I

Time: 3 Hrs Max.Marks : 50

SECTION - A

Note: (i) Answer all the Questions
(ii) Each Questioncarries2marks 10x 2=20

1. Give the normal values of Blood sugars.
2. Define solution.
3. Mention the different methods of Blood collection.
4. What are the different types of Urine specimens? Give examples of urinary preservatives.
5. Explain the terms a) Solute b) Slvent.
6. What are the hygroscopic substances? Give examples.
7. Expand GTT and give the normal values of serum uric acid.
8. Write the source of Vitamin-A .And write the diseases caused by its deficiency.
9. Write the names of water soluble vitamins.
10. What is diabetes.

SECTION - B

Note: (i) Answer Any five Questions
(ii) Each Questioncarries6marks 5x 6=30

11. Give the classification of Lipids and write the biological importance.
12. Write the determination of Blood glucose using GOD-POD method.
13. Give an oteon different types of Glassware used in Bio-chemistry lab. Write the applications.
14. Describe the prevention, safety and first-Aid in lab accidents.
15. Write the principle and construction of Electrical Centrifuge. And give the applications.
16. Define Colorimetry. Describe the construction, operation and uses of colorimeter.
17. What is Phlebotomy? Describe the collection of venous blood.
18. Write the principle, construction and applications of Spectrophotometer.

MODEL QUESTION PAPER
MEDICAL LAB TECHNICIAN - I YEAR
PAPER - II MICROBIOLOGY & PATHOLOGY - I

Time: 3 Hrs Max.Marks : 50

SECTION - A

Note: (i) Answer all the Questions
(ii) Each Questioncarries2marks 10x 2=20MODEL

1. Mention the names of different body fluids.
2. Define Anuria, olaguria and poly urea.
3. Write the names of Bile salts and Bile Pigments.
4. Name acid fast bacteria.
5. Write about a) Glycosurea b) Hematuria.
6. What is Liquification time of Semen?
7. Define Sterilization and disinfection.
8. Name reagents used in Gramstaining.
9. Write the principle of Compound Micro-scope.
10. Write the contributions of Antonyvan Leeuwenhoek & Louis Pasteur to Microbiology.

SECTION - B

Note: (i) Answer Any five Questions
(ii) Each Questioncarries6marks 5x6=30

11. Explain about hanging drop preparation
12. Describe the Estimation of ESR. Give the normal values of and write the clinical importance.
13. Write the Qualitative determination of Urine sugar. And write the clinical importance.
14. How do you count WBC. Write its clinical significance
15. Describe the construction & operation of compound Microscope and write the applications.
16. What are the different methods of Sterilization? Describe the construction and operation of Autoclave
17. Write a note on Media for Blood cultures and Anaerobic media. Write the composition & preparation of Zeil Nelsons stain.
18. Estimation of Hemoglobin by Sahli's method.

MODEL QUESTION PAPER

MEDICAL LAB TECHNICIAN - I YEAR

PAPER - III HUMAN ANATOMY & PHYSIOLOGY

Time: 3 Hrs Max.Marks : 50

SECTION - A

Note: (i) Answer all the Questions

(ii) Each Questioncarries2marks 10x 2=20

1. Define Anatomy & Physiology
2. Mention the varieties of tissues in our body
3. Write the functions of saliva
4. Define cell name any two cell organelles
5. What is alveoli
6. What is Neuron? Write the parts of neuron
7. What are the endocrine Glands
8. Write the composition of urine
9. Mention the parts of female reproductive system
10. Name the hormons of thyroid gland

SECTION - B

Note: (i) Answer Any five Questions

(ii) Each Questioncarries6marks 5x6=30

11. Draw the Neat and labeled diagram of heart and explain coronary circulation
12. Write the classification of Bones with examples and mention the functions of Bones
13. Explain about Physiology of Respiration
14. What is stress? Explain types of stress and regulation tips
15. Draw the labeled structure of stomach and explain the functions of liver
16. Write the composition of blood and functions of blood
17. Explain the structure of uterus with neat label diagram
18. Draw neat diagram of urinary system with labeling, explain the formation of urine