

ADICHUNCHANAGIRI UNIVERSITY

B.Pharmacy II Semester Examination – October 2020

TIME: 2 Hours

MAX.MARKS: 40

SUB: Biochemistry

QP CODE: 11223

Specific Instructions

1. Answer One Question from **Long Essay** (Each question carries 10 Marks).
2. Answer Four Questions from **Short Essay** (Each question carries 5 Marks).
3. Answer all **Short answers** (Each question carries 2 Marks)
4. Write the Question followed by Answer.
5. Write the same question numbers as they appear in this question paper.
6. Your answer should be specific to the questions asked.
7. Draw neat labelled diagrams wherever necessary.

Long Essay: Answer any One

1X10=10

1. Explain the reactions sequence, significance and energetics of TCA cycle.
2. Describe the de novo synthesis of purine nucleotides

Short Essay: Answer any Four

4X5=20

3. Explain the hormonal regulation of blood glucose level in the body
4. Define genetic code and describe its characteristic features.
5. Describe the reactions of urea cycle
6. What are ketone bodies? Explain the formation and importance of ketone bodies.
7. Discuss the biochemical role and deficiency symptoms of vitamin B₁₂.
8. Describe briefly the synthesis of bile acids. Add a note on enterohepatic circulation of bile salts.

Short Answers: Answer All the questions

5X2=10

9. Define allosteric enzyme. Give two examples
10. Give the significance of HMP shunt.
11. Define atherosclerosis.
12. Name four metabolic disorders of urea cycle
13. Define holoenzyme and apoenzyme

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SUB: Human Anatomy & Physiology II

QP CODE: 11221

Specific Instructions

1. Answer One Question from **Long Essay** (Each question carries 10 Marks).
2. Answer Four Questions from **Short Essay** (Each question carries 5 Marks).
3. Answer all **Short answers** (Each question carries 2 Marks)
4. Write the Question followed by Answer.
5. Write the same question numbers as they appear in this question paper.
6. Your answer should be specific to the questions asked.
7. Draw neat labelled diagrams wherever necessary.

Long Essay: Answer any One

1X10=10

1. Describe the functional areas of cerebrum.
2. Explain Ovulation. Outline the various events of menstrual cycle.

Short Essay: Answer any Four

4X5=20

3. Describe the anatomy of Lungs.
4. Write a note on family planning methods.
5. Explain the mechanics of respiration.
6. Explain the formation of dilute Urine.
7. Describe the disorder of adrenal gland
8. Describe the structure and functions of stomach.

Short Answers: Answer All the questions

5X2=10

9. Composition of bile.
10. Diabetes Mellitus and Diabetes Insipidus.
11. What are Meninges.
12. List any four functions of Kidney.
13. What is BMR.

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B.Pharmacy II Semester Examination – October 2020

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MAX.MARKS: 40

SUB: Pathophysiology

QP CODE: 11224

Specific Instructions

1. Answer One Question from **Long Essay** (Each question carries 10 Marks).
2. Answer Four Questions from **Short Essay** (Each question carries 5 Marks).
3. Answer all **Short answers** (Each question carries 2 Marks)
4. Write the Question followed by Answer.
5. Write the same question numbers as they appear in this question paper.
6. Your answer should be specific to the questions asked.
7. Draw neat labelled diagrams wherever necessary.

Long Essay: Answer any One

1X10=10

1. Explain etiology, pathogenesis and morphology of reversible cell injury
2. What are metabolic disorders? Explain pathogenesis of Diabetes mellitus.

Short Essay: Answer any Four

4X5=20

3. List out the chemical mediators and their role in the process of inflammation
4. Explain the pathogenesis of peptic ulcer
5. Explain the process of wound healing by Primary Intention
6. Explain pathogenesis of Hypertension
7. Explain the etiology, pathogenesis, signs and symptoms of Tuberculosis.
8. Explain the pathogenesis and clinical symptoms of Bronchial Asthma.

Short Answers: Answer All the questions

5X2=10

9. Write the causative organism and signs & symptoms for Urinary Tract Infection.
10. List the factors affecting wound healing
11. Write the signs and symptoms of Hyperthyroidism
12. List any two Sexually Transmitted Disease and their causative organisms.
13. What are the signs and symptoms of Rheumatoid Arthritis

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B.Pharmacy II Semester Examination – October 2020

TIME: 2 Hours

MAX.MARKS: 40

SUB: Pharmaceutical Organic Chemistry

QP CODE: 11222

Specific Instructions

1. Answer One Question from **Long Essay** (Each question carries 10 Marks).
2. Answer Four Questions from **Short Essay** (Each question carries 5 Marks).
3. Answer all **Short answers** (Each question carries 2 Marks)
4. Write the Question followed by Answer.
5. Write the same question numbers as they appear in this question paper.
6. Your answer should be specific to the questions asked.
7. Draw neat labelled diagrams wherever necessary.

Long Essay: Answer any One

1X10=10

1. Explain in detail on Markownikoff's addition and Anti-Markownikoff's addition reactions with suitable examples.
2. Write the reaction and mechanism of Benzoin condensation and Cannizzaro reaction.

Short Essay: Answer any Four

4X5=20

3. Discuss the stability of conjugated dienes with examples.
4. Write the four methods of preparation of alkyl halides.
5. Write the structure and uses of Chlorobutanol, Chloral hydrate and Cetostearyl alcohol.
6. Explain the mechanism of E1 reaction with suitable example.
7. Why carboxylic acids are acidic in nature? Explain effect of electron withdrawing group on acidity.
8. Differentiate between primary secondary and tertiary alcohols with examples.

Short Answers: Answer All the questions

5X2=10

9. Define Electrophile and Nucleophile. Give examples.
10. Define tautomerism with examples.
11. Explain Inductive Effect.
12. What is Ozonolysis reaction?
13. Write the structure and uses of Amphetamine and Dichloromethane.
