

Q.P. CODE:M102A031

Dr YSR UNIVERSITY OF HEALTH SCIENCES: VIJAYAWADA- 520008

MBBS DEGREE EXAMINATION - MARCH, 2024

FIRST M.B.B.S. EXAMINATION

BIOCHEMISTRY - PAPER-II

(Theory Questions)

Time: 2 Hour 40 Minutes Max Marks: 80

Note: Answer all questions.

Draw diagrammatic representation wherever necessary

SECTION-II (THEORY QUESTIONS - 80 MARKS)

STRUCTURED ESSAY QUESTIONS:

2 X15 = 30

- What is the normal blood pH? Describe the regulatory mechanisms of blood pH. Explain about renal regulation of blood pH. Add a note on the anion gap.
- A 3-year-old child was brought to the hospital by the parent with the complaint of the child's diapers becoming black. Answer the following:
- a) What is your probable diagnosis?
- b) Which metabolic pathway is affected?
- c) What is the biochemical cause behind the black diapers?
- d) What are the important compounds derived from tyrosine?

SHORT ANSWER QUESTIONS:

10x5=50

- Classify hormones? Describe the mechanism of action of group 1 hormones.
- 4. Describe the steps of PCR and its applications.
- Define immunity. Describe the types of immunity and add a note on acquired immunity.





- Explain the transport mechanisms across the cell membrane.
- 7. Define and describe the different types of mutations with examples.
- 8. Write about sources, RDA functions, and regulation of Calcium in our body.
- Enumerate the tumor markers and their role in cancer diagnosis.
- Enumerate the steps of Uric acid synthesis and add a note on its clinical importance.
- Describe transcription of mRNA in Prokaryotes and add a note on posttranscriptional modifications.
- 12. Describe the structure and functions of collagen.

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