

Mid-West University
Examinations Management Office
End Semester Examinations 2081

Bachelor level/ B.Sc. / 6th Semester

Time: 3 hours

Subject: Endocrinology and Biochemistry (ZOO463)

Full Marks: 60

Pass Marks: 30

Candidates are required to give answers in their own words as far as Practicable. The figures in the margin indicate full marks.

Group: A

Answer the following questions in detail.

[4×8=32]

1. Give labelled diagram of pituitary gland. List the hormones produced by adenohypophysis and neurohypophysis. Mention their functions.
2. What are enzymes? Discuss the chemical nature of enzymes and mechanism of enzymatic actions.
3. What are monosaccharides? Discuss different monosaccharides with structural formula and significances.
4. Where does glycolysis occur in cell? Explain the various types of glycolysis.

OR

What is biochemistry? Discuss the importance of biochemistry in different fields with relevant examples.

Group B

Answer the following questions in brief.

[7×3=21]

5. Name the different groups of corticoid hormones secreted by adrenal cortex. Mention their functions.
6. Introduce the disease diabetes? What is the ultimate hormonal deficiencies in the diseases? How does it affect an individual's ability to use glucose?
7. Mention the factors affecting on enzyme activities?
8. Write short notes on fat soluble vitamins.
9. What is cholesterol? Give the chemical formula of cholesterol with its significances.
10. Name different food storage polysaccharides with chemical formula and their importances.
11. Write short notes on macro elements.

OR

“Water is essential for life.” Explain.

Group C

Attempt the following questions in very short. [Any Seven]

[7×1=7]

12. What is acromegaly?
13. Mention any two differences between cretinism and myxedema.
14. Define the term precocious puberty.
15. Give a chemical reaction showing formation of peptide bond.
16. Show the glycosidic bond between two glucose molecules.
17. Give the examples of scleroproteins.
18. Write down the chemical formula for a triglyceride fat.
19. Name the disease caused by deficiency of vitamin B1.
20. What do you mean by denaturation of proteins?

The End