

AFEBABALOLA UNIVERSITY, ADO-EKITI, NIGERIA
COLLEGE OF SCIENCES
DEPARTMENT OF CHEMICAL SCIENCES
300 LEVEL BSc BIOCHEMISTRY
SECOND SEMESTER, 2019/2020 SESSION

CLASS TEST

DATE: 24 April 2020

BCH 304: Metabolism of Nucleic Acids (2 Units)

ANSWER ALL QUESTIONS

Time Allowed: Submit today to onasanyaa@abuad.edu.ng before midnight.

- 1 (a) Describe with diagram the degradation of purine ribonucleotides (IMP) to the formation of uric acid in human.
 - (b) Describe with diagram the degradation of uric acid in most animals.
 - (c) State disorders of purine metabolism.
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- 2 (a) Explain the term cell-free expression system.
 - (b) State the three commonly used cell-free expression systems.
 - (c) Highlight materials needed for *in vitro* protein synthesis.
 - (d) Describe the procedure for *in vitro* protein synthesis.
 - (e) State applications of cell-free translation technology.