



CRAWFORD UNIVERSITY

FAITH CITY, IGBESA, OGUN STATE
 COLLEGE OF NATURAL AND APPLIED SCIENCES
 DEPARTMENT OF PHYSICAL & EARTH SCIENCES
 GEOLOGY & MINERAL SCIENCES

Harmattan Semester Examinations (B.Sc. Degree), 2016/2017
 COURSE: GEM 441 – Advanced Micropaleontology and Palynology

UNIT: 3 Units TIME ALLOWED: 3Hrs.

INSTRUCTIONS: Answer any FOUR (4) questions

Illustrate your answers with large, clearly labelled diagrams where necessary

1. What are microfossils? Discuss their practical values in geological studies and their applications in the oil industry. (15 marks)

2. Describe the test of foraminifera vis-à-vis the following:
 - a. Test Arrangement. (9 marks)
 - b. Test Composition. (6 marks)

3.
 - a. Give a detailed description of calcareous nannoplanktons. (12 marks)
 - b. State the advantages of the application of calcareous nannofossils. (3 marks)

4.
 - a. What are Acritarchs? With well labeled diagram, describe the morphology of Acritarchs. (5 marks)
 - b. Write concise note on the paleoecology of Acritarchs. (5 marks)
 - c. Attempt the classification of Acritarchs. (5 marks)

5. Differentiate between the following paired terms:
 - a. Spores and Pollen. (5 marks)
 - b. Planktonic and Benthonic Foraminifera. (5 marks)
 - c. Palynomorphs and Foraminifera. (5 marks)

6. Explain the various stages involved in the:
 - a. Collection of samples for foraminifera and palynomorph analysis. (3 marks)
 - b. Laboratory preparation of samples. (8 marks)
 - c. Data analyses. (4 marks)