

NATIONAL OPEN UNIVERSITY OF NIGERIA UNIVERSITY VILLAGE, PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESS WAY, JABI - ABUJA.

FACULTY OF SCIENCES

DEPARTMENT OF PURE AND APPLIED SCIENCES

FEBRUARY/MARCH2018 EXAMINATION

COURSE CODE: CHM 302

COURSE TITLE: POLYMER CHEMISTRY 1

TIME: 2 HOURS

INSTRUCTION: Question one is compulsory. Answer question one and

any other three questions.

QUESTIONONE

- 1ai)Polymers are macromolecule while all macromolecules are not polymers. Explain. 3 marks
- 1aii) Enumerate on the classes of polymers.11 marks
- 1b) Expatiate on condensation polymerization.5marks
- 1c) Account for the principle of liquid crystal nature of polymers.3 marks
- 1d) Explain briefly crystallinity in polymers.3 marks

QUESTION TWO

2a) Write short note on addition polymerization including the mechanism of its formation.

15 marks

QUESTION THREE

