



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikwe Express Way, Jabi, Abuja
Faculty of Education
2020_1 Semester

COURSE CODE: SED834

COURSE TITLE: SCIENCE, TECHNOLOGY AND SOCIETY

CREDIT UNIT: 2

TIME ALLOWED: 2 HOURS

INSTRUCTION: Answer question one and any other three

1a. Technology has revolutionized communication in the past decades in Nigeria, thereby making people gain easy access to information quicker, cheaper and easier anywhere. Discuss four (4) ways by which Science Education can be improved with the use of Information Technology in line with present day technological development. (8 marks)

b) Science and technology impact significantly on the society. The two contributed immensely to human development and economic growth. Discuss in details the effects of Science and Technology on Society. (9 marks)

c) Explain the justification for the integration of STS in the Science class room. (8 marks)

Total = 25 marks

2 (a) Discuss the concept of (i) Blood transfusion, (ii) Genetic engineering (8 marks)

b) Attributes for scientifically literate person adopted by NSTA is required for a Science Educator desirous of increasing its professionalism. In view of this statement, list at least seven (7) scientific attributes a teacher needs to enable him function effectively. (7 marks)

3a) Mention two bi-products of energy and discuss the hazards caused by them. (7 marks)

b) List four and explain two (2) teaching approaches in STS education. (8marks)

4a) Define *Bioethics*. (5 marks)

b) Discuss the extent to which scientific disciplines play an important part in preparing youth to live successfully in the society.(10 marks)

5 a) Explain the term waste recycling. (5 marks)

b) Discuss five (5) merits of Forestry. (10 marks)