



NATIONAL OPEN UNIVERSITY OF NIGERIA

91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja

FACULTY OF EDUCATION

SCIENCE EDUCATION DEPARTMENT

2019_2 EXAMINATION QUESTIONS

COURSE CODE: SED834
COURSE TITLE: SCIENCE, TECHNOLOGY AND SOCIETY
CREDIT UNIT: 3
TIME ALLOWED: 3 HOURS
INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER THREE

- 1(a) Define wasterecycling? Explain FOUR advantages of waste recycling.
(10 marks)
- (b) Energy supply is always inadequate to carry out human activities. Mention and explain any FIVE alternative sources of energy in your environment (10 marks)
- (c) Describe with FIVE reasons why damming rivers create a lot of environmental problems.
(5 marks)

(Total marks =25, Time =66minutes)

2. (a) (i) Define project synthesis in relation with the integration of science technology and society in the precollege sciences (2 marks)
- (ii) Biotechnology is an avenue for job creation for school leavers in Nigeria. Enumerate and describe FOUR career-related outlets in biotechnology. (8 marks)
- (b) Describe any FIVE goals of Third National Development Plan (5 marks)

(Total marks =15, Time =38minutes)

3. (a) Differentiate between directed activities related to text and industrial simulation teaching strategies of science technology and society (5 marks)
- (b) Expantiates on FIVE general ecological impact of oil spillage (10 marks)

(Total marks =15, Time =38minutes)

- 4(a) Identify FIVE stages into which genetic engineering could be broken (5 marks)
- (b) Using FIVE ethical and legal problems, justify the knowledge of bioethics in teaching science technology and society in senior secondary schools (10 marks)

(Total marks =15, Time =38minutes)

5(a) State FIVE problems that militate against effective operation of internet in Nigeria. (5marks)

(b) Using the FIVE final stages, explain how HIV-AIDS is considered a killer disease

(10

marks)

(Total marks =15, Time =38minutes)