

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF SCIENCE AND TECHNOLOGY EDUCATION

DEPARTMENT OF SCIENCE EDUCATION

FIRST SEMESTER EXAMINATION: 2015/2016

COURSE CODE:-EDU312

COURSE UNIT: - 3

COURSE TITLE: INSTRUCTIONAL STRATEGY IN SCIENCE, TECHNOLOGY & MATHEMATICS

TIME: - 2HOURS

INSTRUCTION: -Answer four (4) questions out of the Six questions below.

Each Question Carries 15 Marks

1. Clearly explain the following:-
 - (i) Myth and dogma about science.
 - (ii) Philosophers view of science education.
 - (iii) Aims of science education.
 - (iv) The nature of science and mathematics teaching.
2. State and briefly explain the following
 - (i) The attributes of a teacher.
 - (ii) The general principles of teaching.
 - (iii) The roles and functions of a teacher.
3. Make a list of all the teaching method you study and explain any two of the methods clearly stating the advantages and disadvantages of the chosen methods.
4. Write brief explanations of the following
 - (i) Lesson plan and unit plan.
 - (ii) Major areas to be considered in science and mathematics teaching.
 - (iii) The teaching of concepts in science and mathematics.
- 5a. Define the term evaluation.
- 5b. Enumerate the basic functions of evaluation in the learning process.
- 6a. Outline the areas of psychological considerations in the teaching of science and mathematics.
- 6b. Identify and explain the prospects and problems of implementing continuous assessment programme