



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91 Cadastral Zone, Nnamdi Azikwe Express Way, Jabi, Abuja.
FACULTY OF EDUCATION
2022_1 POP Examination ...

COURSE CODE: SED324

COURSE TITLE: SCHOOL SCIENCE LABORATORY

CREDIT UNIT: 2

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER TWO

- 1ai. What is a science laboratory? **(5 marks)**
- ii. What are the aims and objectives of building a science laboratory for science instruction in schools? **(8 marks)**
- b. What makes the Power lab 8 laboratory design more superior to the flexible laboratory design? **(4 marks)**
- c. What are the benefits of siting school laboratory in the same block with other science laboratories? **(4 marks)**
- d. Draw the hazard signs to show:
 - i. general warnings **(3 marks)**
 - ii. toxic materials **(3 marks)**
 - iii. high voltage. **(3 marks)**

- 2a. Why is the laboratory work (practical) important in science? **(4 marks)**
- bi. State the 8 classes of hazardous chemicals **(8 marks)**
- ii. As a science teacher working in the laboratory, you are expected to exhibit caution in handling chemicals to avoid contact with your body. What are the two ways in which your body can contact chemicals in the laboratory? **(4 marks)**
- c. Some of your students approached you that they prefer science practical lesson to lecture in the classroom. Why do you think so? **(4 marks)**

- 3a. What are the functions of a science laboratory? **(5 marks)**
- b. In what ways do you usually assess your students' performance in laboratory work as a science teacher? **(10 marks)**
- c.. List five (5) safety facilities in the science laboratory. **(5 marks)**

- 4a.** As a Science teacher, you have been called upon to give a lecture on how to fight fire in a school laboratory. Discuss 5 principles to be obeyed in firefighting that you would consider. **(10 marks)**
- bi. List 5 general preventive measures to prevent accidents in the laboratory. **(5 marks)**

ii. Mention any 3 common laboratory accidents and how to avoid them. **(5 marks)**