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## NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91 Cadastral Zone, Nnamdi Azikwe Express Way, Jabi, Abuja.

FACULTY OF EDUCATION 2022\_2 POP EXAMINATION

COURSE CODE: SED835

COURSE TITLE: LABORATORY DESIGN AND MANAGEMENT

CREDIT UNIT: 3

TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER THREE

- 1a. As a Head of Department, you have been given one hundred thousand naira to run the affairs of the department concerning school laboratory. Discuss what you will consider. (10 marks)
- b. Distinguish between Author Index and Subject Index as related to research report on laboratory safety and hazards (6 marks)
- c. One of the most important laboratory safety rules is 'Follow the Instructions'. Why is this most important rule? (4 marks)
- d. At the end of your course at National Open University of Nigeria, you will be asked to carry out research. Outline the formal general set-up of a research work. (5 marks)
- 2a. Briefly explain the following laboratory safety rules (10 marks)
- i. Know the location of safety equipment
- ii. Dress for the laboratory
- iii. Don't eat or drink in the laboratory
- iv. Don't taste or sniff chemicals
- v. Don't play horse play in the laboratory
- b. Identify five (5) laboratory apparatus from the laboratory picture below (5 marks)



- 3a. Discuss five (5) classes of hazardous chemicals (5 marks)
- b. If your proposal for a new science laboratory is accepted, where would you want the laboratory sited? (6 marks)
- c. Write any four electrical safety in school science laboratory (4 marks)

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- 4ai. How would you describe what a laboratory is to students? (3 marks)
- ii. List two places outside school where activities take place that can be called laboratory. (2 marks)
- b. As a science teacher, explain the procedures for any emergency case in your laboratory. (5 marks)
- c. State five ways of preventing laboratory equipment from damage from heat, corrosion and rust. (5 marks)
- 5a. Why were NISP and NSSSP projects developed for use in schools? (5 marks)
- b. Are the chemicals and broken glass safe to dump down the drain? If not, what do you do with them? (5 marks)
- c. How is computer used to locate materials for research? (5 marks)