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NATIONAL OPEN UNIVERSITY OF NIGERIA

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

FACULTY OF EDUCATION

2020_1 Semester

COURSE CODE: SED329

CODE TITLE: INTEGRATED SCIENCE WORKSHOP

CREDIT UNIT: 3

TIME ALLOWED: 2 Hours 30 Minutes

INSTRUCTION: Answer questions ONE and any other THREE questions.

QUESTIONS

- 1 (a) Based on your experience as an integrated science student compare these constructs *novice* and *expert postulates* of Dreyfus model of skill acquisition (8 marks)
- 1(b) Elucidate two major methods of blowing glass (8 marks)
- 1(c) From your knowledge of tools in metal workshop, state any five (5) properties of metals (5 marks) 1 mark each
- 1(d) Haven't learned about four (4) major safety measures in the workshop during the last field trip, outline four (4) of them. (4 marks)
- 2(a) In view of Robert Boyle Skeptical Chymist in (1661) describe the method of producing wood alcohol and its uses (10 Marks)
- 2(b) With reference to your activities in carpentry workshop, state five (5) major tools carpenters and cabinet makers use in doing their work.(5marks)
- 3(a) As a scientist, how would you describe the procedures for constructing glass apparatus during the workshop in science education department (5 marks)

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- 3(b) Enumerate any five (5) possible components of electronic device used by the electrician in his workshop. (5marks)
- 3(c) As an entrepreneur state at least 4 characteristics that you are expected to exhibit in the society. (5marks) 1 mark each
- 4(a) Briefly give account of the primary light and pigment colours with their possible derivable colours in the science laboratory occur. (5marks)
- 4(b) Skills acquisition have been of great benefits to the learner, as an individual that venture into developing a skills and persevere to complete the procedural requirements, state at least five of these benefits (5marks) 1 mark each
- 4(c) How can a teacher enhance the skill possessed by a learner on a task? (5marks) 1 mark each
- 5(a) If you are invited as a scientist into workshop organized science education department of National Open University of Nigeria, how would you describe the effects of cold working and hot working of metal (10 marks)
- 5(b) State at least five processes involved in the surface finishing for metals (5 marks) 1 mark each