

UNIVERSITY OF EDUCATION, WINNEBA INSTITUTE FOR TEACHER EDUCATION AND CONTINUING PROFESSIONAL DEVELOPMENT (ITECPD)



END-OF-SECOND-SEMESTER EXAMINATION (August 2021)

COURSE CODE: PBI 242

COURSE TITLE: INTEGRATED SCIENCE II FOR UPPER PRIMARY.

TIME ALLOWED: 50 MINUTES

STUDENT'S INDEX NUMBER:

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GENERAL INSTRUCTIONS:

- This paper is made up of ONE SECTION.
- Section ONE is made up of thirty (30) multiple-choice items.
- Each question carries 1 mark. You are expected to CIRCLE the letter corresponding to the correct option to each question with a pen or pencil.
- · Answer all questions on the question paper.
- You are expected to handover your question paper to the invigilator before you leave the examination hall.

SECTION ONE

| 1. a) The kinetic energy of a moving vehicle is 500Joules, if the mas | s of the vehicle is 10kg |
|---|--------------------------|
| Calculate the velocity of the moving vehicle. | (3 marks) |
| i) State any two (2) process skills in the basic school science cur | riculum |
| i) Suite any two (2) process suits in the case conservation | (2 marks) |
| ii) State three effects of forces. | (3 marks) |
| iii) Define the following terms | |
| a.) solute | (1 mark) |
| β) solvent | (1 mark) |
| 2. a) Describe what a solid-liquid mixture is and give an example of | it. (2 mark) |
| b) i) You have been given a mixture of salt, sand and iron filings. | List three laboratory |
| methods you could use to separate these substances | (3 marks) |
| ii) Write down the S.I unit of energy | (1 mark) |
| c) What is the immediate form of energy into which the following | g would be converted? |
| i. Turbine | (1 mark) |
| ii. Dynamo | (1 mark) |
| iii. Loudspeaker | (1 mark) |
| iv. Light bulb | (1 mark) |

3. a) i) Energy can be categorized into renewable and non-renewable resources. State three differences between renewable and non-renewable resources (3 marks) ii) Identify two functions of a satellite (2 marks) bi) State any three examples of non-contact force (3 marks) ii) Explain what is meant by friction (2 marks) 4. a) State three effects of forces. (3 marks) b) How much force is required to accelerate a 1600 kg car at 3.50 m/s² (2 marks) c) Give two differences between a natural satellite and an artificial satellite (2 marks) d) A box has a mass of 5.5kg is lifted from the floor and placed on a shelf. If the box gains 155J of Potential Energy, how high is the shelf? (3 marks)

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