



**UNIVERSITY OF EDUCATION, WINNEBA**  
INSTITUTE FOR TEACHER EDUCATION AND CONTINUING PROFESSIONAL DEVELOPMENT (ITECPD)  
4-YR B.Ed IN UPPER PRIMARY, EARLY GRADE, AND JHS EDUCATION  
**FIRST SEMESTER UNIVERSITY-BASED ASSESSMENT – JANUARY, 2020**

**Index Number of Candidate:**

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**NAME OF COLLEGE:**

**Signature:**

**EBC113: INTRODUCTION TO INTEGRATED SCIENCE 1**

**TIME ALLOWED: 20 MINUTES**

**LEVEL: 100**

**INSTRUCTIONS:**

1. Attempt **all** questions.
2. Each question is followed by four options, A – D.
3. Shade the letter corresponding to the correct answer in the options provided on the **scannable** sheet.
4. The total marks for this paper is **20**.

1. The type of force holding the particles of water together is known as.....force

- A. electrostatic
- B. electrical
- C. intermolecular
- D. magnetic

2. The temperature at which a substance changes from a liquid state to a gaseous state is known as.....

- A. Boiling point
- B. Condensation
- C. Freezing point
- D. Melting point

3. Which one of the following below occupies space and possesses the attributes of gravity and inertia?

- A. Force
- B. Mass
- C. Matter
- D. Volume

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4. The major difference between a solid and a liquid is that.....
- A. a solid has a changing shape whilst a liquid has a fixed shape and volume
  - B. solid particle is far apart and in erratic motion but liquid particle vibrate at fixed position
  - C. solid particles are in fixed mass and volume whilst liquid particles are closely packed
  - D. solid particles are in fixed position in a fixed structure but liquids particles are free to move around
5. What is the appropriate type of protective clothing should students wear during laboratory practical work?
- A. Laboratory coat
  - B. Suit
  - C. School uniform
  - D. Kitchen apron
6. Which one of the following safety rules is not meant for a leader during laboratory session?
- A. Display safety rules in the laboratory
  - B. Label all chemicals before they are used
  - C. Never add water to concentrated acid
  - D. Never perform any experiment in the laboratory unless you are told to do so
7. The force that one surface exerts on another when the two surfaces are rubbed against each other is called.....
- A. acceleration
  - B. friction
  - C. gravity
  - D. inertia
- \* 8. Sun appears to move from east to west around the earth. This means that the earth rotates from.....
- A. East to west
  - B. North to south
  - C. West to east
  - D. West to north
- 7 9. Which one of the following substances listed below can best be used to demonstrate the kinetic theory of matter.....
- A. Block of ice
  - B. Dry ice
  - C. Iodine
  - D. Mercury

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10. The micrometer screw gauge can measure up to what precision?
- A. 0.0001mm
  - B. 0.001mm
  - C. 0.01mm
  - D. 0.1mm
11. What force acts on an object towards the center of a circle when the object moves in a circular path?
- A. Centrifugal force
  - B. Centripetal force
  - C. Gravitational force
  - D. Magnetic force
12. Which one of the following statements can best be given as the main cause of the seasons?
- A. The changing distance between the sun and the earth
  - B. The tilting of the earth in relation to the sun
  - C. Sun activity including sun spots
  - D. The speed that the earth rotates round the sun
13. Which one of the following is not a scale of temperature .....
- A. Celsius
  - B. Coulomb
  - C. Fahrenheit
  - D. Kelvin
14. Yaw Manu pushes a 2kg box with 30N of force to the left. Adjoa Nkrumah pushes the same box with 40N of force to the right. What is the net force on the box?
- A. 10N to the left
  - B. 10N to the right
  - C. 70N to the left
  - D. 133N to the right
15. Diffusion in liquids is an example of .....
- A. Fragrance of incense
  - B. Smell of perfume
  - C. Smell of food
  - D. Spreading of ink in water

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16. A body that moves with a constant velocity in a straight line has.....
- A. Constant acceleration
  - B. Constant speed
  - C. Non-uniform acceleration
  - D. Uniform acceleration
17. The classification and properties of matter depend upon.....of the substance
- A. particle arrangement and energy
  - B. particle energy and inter-particle distance
  - C. particle arrangement and inter-particle distance
  - D. particle arrangement, energy and inter-particle distance
18. which one of the following substances does not undergo the three states of matter?
- A. Camphor
  - B. Water
  - C. Coca cola
  - D. Sugar
19. Why are safety signs in any science laboratory very important? Pick the odd one out.
- A. They are designed to give information on hazards
  - B. They are designed to give warning
  - C. They are designed to caution laboratory users
  - D. They are designed to caution students from handling gas cylinders
20. You have accidentally broken a test tube and soiled chemicals on the table. Which one of the following best explains what you should do?
- A. Clean up the spill with water and paper tools
  - B. Dispose of the broken glass and wipe the spill with a cloth
  - C. Keep your partners away whilst you inform the teacher
  - D. Throw the broken glass into a bin and let the spill air-dry

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