

AKENTEN APPIAH-MENKA UNIVERSITY OF SKILLS TRAINING AND ENTREPRENEURIAL DEVELOPMENT INSTITUTE FOR TEACHER PROFESSIONAL DEVELOPMENT AND LIFELONG LEARNING (ITPDLL)

END OF FIRST SEMESTER EXAMINATION 2023/2024

COURSE CODE	GRC/JBC 111
COURSE TITLE	INTRODUCTION TO INTEGRATED SCIENCE 1
DURATION	TWO HOURS
INSTRUCTIONS	THIS PAPER CONSIST OF SECTIONS A, B, C & D. ANSWER ALL THE QUESTIONS IN SECTIONS A, B, C AND ONE (1) QUESTION IN SECTION D INTO THE ANSWER BOOKLET PROVIDED.
INDEX NUMBER	

SECTION A: (20 MARKS)

Each of the questions below is followed by four options, lettered A, B, C, and D. Choose the option that best completes each statement and write the letter A, B, C, or D of the option you have chosen in your Answer Booklet.

- 1. The process of condensation is changing...
 - A. gas to liquid.
 - B. gas to solid.
 - C. liquid to gas.
 - D. solid to liquid.
- The process by which naphthalene (camphor) placed in a box gets smaller in size is termed...
 - A. diffusion.
 - B. evaporation.
 - C. melting.
 - D. Sublimation.
 - 3. Which of the following properties is common to both liquids and gases?
 - A. Fixed shape
 - B. Fixed volume
 - C. No definite shape
 - D. No definite volume
 - 4. All the following are examples of liquids except?
 - A. Nitrogen
 - B. Oxygen
 - C. Pebble
 - D. Petrol

5. The temperature at which a	substance changes its state from liquid to gas is called
A. 100°C.	THE RESERVE OF THE PARTY OF THE
B. Boiling point	Villa vi
C. Freezing point	MARKETTI ARE I
D. Melting point	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6. Which of the following is n	ot a building block of matter?
A. Atom	A STATE OF THE PARTY OF THE PAR
B. Element	THE PAPER COS
C. Ion	
D. Molecules	
7. Which one of the following	is a non-contact force?
I. Electrostatic	PARTY OF THE PROPERTY.
II. Frictional	
III. Magnetic	BATH May have
IV. Tensional	
A. I only	
B. II only	supil or stage of
C. I and III	
D. I and IV	
8. The force that pulls a falling	ng mango fruit toward the centre of the Earth is
calledforce	>.
A. tensional	
B. gravitation	
C. centripetal	
D. centrifugal	
9. Friction acts in opposite d	lirections and it can affect an object to
A. (I) slow down	
B. (II) stop	
C. (I) and (II) A and B	speed up
D. (I), (II) and (III)	
acceleration of 6 ms^{-2} . C A. 0.08N	mass of 0.5 kg moves from one point to another with an Calculate the force that acts upon the puppy's body.
B. 3N C. 5.5N	Q =
D. 6.5N	
	2

- 11. Which of the following ratios expresses pressure? A. Energy /Area. B. Energy /Volume. C. Force /Area. D. Force /Volume. 12. Which of the following physical quantities is expressed as mass per unit volume? VISITE COLEMAN/PUBLICATION. COM FOR MORE A. Area B. Density C. Work D. Volume 13. Which of the following S.I. units cannot be used to measure the work done? I. Nm 11. J Ш. W A. I only B. II only C. III only D. I, II, and III 14. Which of the following options shows the prefixes in a descending order? A. Giga, Kilo, Mega, Nano. B. Giga, Mega, Kilo, Nano. C. Mega, Giga, Kilo, Nano. D. Nano, Kilo, Mega, Giga . 15. Which of the following pairs of physical quantities and SI units is correct? A. Electric Current-SI unit: Volt. B. Mass-SI unit: Gram.
 - C. Temperature-SI unit: Kelvin.
 - D. Time-SI unit: Hour.
 - 16. Pick the odd item from the options.
 - A. Length
 - B. Mass
 - C. Temperature
 - D. Volume
 - 17. The micrometer screw gauge measures up to a precision of an object.

A. 0.001mm	
B. 0.01mm	
C. 0.1mm	Marie Committee
D. 1mm 18. Which of the following instruments is the most appropriate	for measuring the speed of
	2251
wind?	
A. Wind turbine	
B. Wind vane	
C. Barometer	
D. Anemometer	and the
419. Pick the odd item from the options	balance.
A. beam	
B. chemical	w H
C. electronic	
D. spring	
20. Why is it not advisable for a student to eat or drink in the s	cience laboratory? To
A. stay safe.	1.00
B. prevent food or water contamination.	a me II I Ab
C. prevent pest infestation of the laboratory.	
D. keep the laboratory clean and tidy.	
SECTION B (10 Marks)	
For questions 21-30, write the appropriate word to	complete them.
21. The spinning of the Earth around its axis is known as	
22. Prof. Marian Ewurama Addy is a Ghanaian scientist who r	esearched and published
articles onmedicine.	
23. The primary aim of administering First Aid is to	
24. Scald is an injury which is caused by	

by their different and optimum methods of learning.

29. The knowledge acquired through inquiry, observation, experimentation	on, and	
evaluation of information gained is referred to as		
30. How many accepted basic quantities do we have?		
1		
SECTION C (10 Marks)		
Indicate whether each of the following statements is TRUE or FALSE in Ques	tions 31 to 40.	les.
31. Seasons change due to the rotation of the Earth around the Sun.		
32. A body with a mass of 3kg on earth approximately weighs 30N.		
33. A learner who has a keen interest in observing the world around hi	m/her is a ke	ev
indicator of auditory learning characteristics.		
434. 10 ⁹ is the pre-fix notation for nano.		1000
	lace for	10-14
35. The error of parallel occurs when the eye is not positioned at the right pl	iacc for	Ŧ
measurements of liquids.		
36. Liquid can flow and take the shape of its container.		
37. Dr. Thomas Mensah is associated with the optic fiber invention.		
38. There are five (5) strands of the basic school science curriculum.		
39. The rate of change of velocity is acceleration.		
40. The rate of change of displacement is velocity.		
SECTION D (20 Marks)		
Answer ONLY ONE question from this Section		
41. (a) State and explain three (3) importance of providing First Aid to an inju	ured person.	
	6 marks	
(b) List any five (5) artifacts that can be included in the teaching portfolio.	5 marks	
(c) State the S.I Unit for each of the following quantities:	4 marks	
I. Force		
II. Pressure		
III. Acceleration		
IV. Work		
(d) What does the abbreviation ABC in using CPR mean in First Aid?	3 marks	
(e) What is a portfolio?	2 marks	
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42.

a) List four (4) processes involved in the change of matter	4 marks
b) Explain the difference between rotation and revolution of the earth	4 marks
c) Name six (6) items that can be included in a first aid box	6 marks
d) Write down two (2) differences between science as a process and science	e as a product
	2 marks
e) State any four (4) strands of the basic science curriculum	4 marks
43.	
(a) Group the following forces into contact and field forces:	4marks
i. Magnetic force	Time RS
ii. Frictional force	
iii. Electrostatic force	
iv. Tensional force	
v. Gravitational force	
vi. Viscous drag force	
vii. Cohesion	
viii. Adhesion	
(b) State four (4) reasons why measurements should be done accurately	4mm and a
	4marks
(c) Calculate the acceleration of a body of mass 0.5 kg if the force acting on it is	s 50N.
	4marks
(d) (i) State three (3) properties of liquids	2
(ii) State two (2) examples of liquids.	3marks
	2marks
(e) In a tabular form, state any three differences between weight and mass	3 marks

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