END OF FIRST TERM EXAMINATION

CLASS: JHS 1 SUBJECT: **INTEGRATED SCIENCE**

NAME…………………………………………………..……………………... DURATION: **2 HRS**

**SECTION A: OBJECTIVES**

1. All the following involves scientific experimentation except?
2. Observation
3. Title of experiment
4. Conclusion
5. Creation of result
6. Which of the following statements best describe the misuse of the knowledge of Science?
7. Construction of canals and dams for irrigation
8. Making of atomic bombs
9. Invention of farm machinery like tractors for farming
10. Invention of communication satellite
11. Which of the following area of study is applied science?
12. Chemistry
13. Medicine
14. Biology
15. Physics
16. Science can be defined as a method of obtaining knowledge through
17. guesses
18. libation and ablution
19. observation and experimentation
20. prayer
21. The newton is the unit for measuring
22. volume
23. mass
24. weight
25. area
26. Which of the following is equal to 1kg?
27. 1000mg
28. 1000g
29. 100g
30. 100mg
31. The degree of hotness or coldness of a body is referred to as its
32. heat capacity
33. temperature
34. internal energy
35. melting point
36. The word meniscus refers to the
37. volume of a liquid
38. mass of a liquid
39. density of a liquid
40. curved surface of a liquid
41. Which of the following is a derived unit?
42. Metre
43. Kilogram
44. Newton
45. Second
46. If the normal human body temperature is 36$℃$. Which of the following is an equivalent value on Kelvin scale?
47. 173.0K
48. 236.4K
49. 309.0K
50. 312.0K
51. How many states of matter are there
52. 3
53. 4
54. 5
55. 6
56. Which of the following substances can exist in all the three states of matter?
57. Petrol
58. Palm oil
59. Milk
60. Water
61. The muscle is an example of
62. a system
63. an organ
64. a tissue
65. an organelle
66. When a piece of candle is heated, it changes from
67. liquid to gas
68. liquid to flame
69. solid to liquid
70. solid to gas
71. The basic unit of matter is the
72. atom
73. compound
74. element
75. ion
76. The following are components of a fertile soil except?
77. Air
78. Water
79. Humus
80. Gravels
81. Which of the following soil types allows high rate of drainage?
82. Clayey soil
83. Humus
84. Loamy soil
85. Sandy soil
86. What is the name of the gas that is found in soil water?
87. Ammonia
88. Methane
89. Oxygen
90. Nitrogen
91. The process whereby soil is formed by the breakdown of rocks is called
92. erosion
93. weathering
94. fertilization
95. leaching
96. Which of the following statements about clayey soil is not true?
97. It is difficult to plough when dry
98. It shrinks when wet and swells when dry
99. It has high amount of plant nutrients
100. It has the smallest soil particle
101. Care must be taken to avoid bringing a naked flame near substances that
102. combustible
103. corrosive
104. magnetic
105. toxic
106. Which of these methods would be use to put out fire if someone’s clothing catches fire in the kitchen?
107. Sand bucket
108. Fire blanket
109. Add cold soil
110. Carbon dioxide gas
111. Which of the following disabilities may be common among workers in noisy environment?
112. Blindness
113. Deafness
114. Dumbness
115. Lameness
116. A combustible substance is one that
117. easily catches fire
118. dissolves common salt
119. freezes at 0$℃$
120. boils at 100$℃$
121. The first step to take when there is an electrical fault is to
122. call the fire service
123. switch off the electrical mains
124. call an electrical engineer
125. vacate the premises
126. ……… is the study of animals
127. Botany
128. Zoology
129. Virology
130. Bacteriology
131. The use of computer to process information is known as
132. food technology
133. biotechnology
134. zoology
135. pathology
136. The following are harmful effect of science and technology except……
	1. creation of massive unemployment
	2. importation of negative foreign culture into our society
	3. destruction of wildlife
	4. exploration of oil deposited in the sea
137. The mass of Sir John’s phone is 0.1kg. What will be the weight of the phone?
138. The measure of period between two events is
	1. length
	2. mass
	3. time
	4. density
139. The amount of space occupied by matter is
	1. area
	2. volume
	3. length
	4. weight
140. The process by which living things increase in number is referred to as
	1. multiplication
	2. growth
	3. reproduction
	4. development
141. Water changes into vapor at
	1. 0$℃$
	2. 100$℃$
	3. 37$℃$
	4. 10$℃$
142. The process by which steam is changed into water is called……
	1. evaporation
	2. condensation
	3. melting
	4. sublimation
143. Virus can only produce when they in a
	1. culture solution
	2. living organism
	3. dead matter
	4. sugary medium
144. The physical property that refers to how rough or smooth a soil is, is known as
	1. capillarity
	2. air content
	3. water holding ability
	4. texture
145. Mimosa closes its leaves when the leaves are touched. This means.
	1. Mimosa dislikes touches
	2. Mimosa is sensitive to touch
	3. The leaves of mimosa are very soft
	4. The leaves of mimosa are very large.
146. Which of the following is the organic part of the soil?
	1. Humus
	2. Air
	3. Soil particles
	4. Mineral salt
147. Which of the following is not a soil nutrient?
	1. Hydrogen
	2. Nitrogen
	3. Potassium
	4. calcium
148. The S.I unit for distance is…….
	1. Km
	2. M
	3. Mile
	4. Cm

**SECTION B: ESSAY**

Answer Q1 and any other two

1. a. i. Read and record in cm3 the volume of liquid in the following cylinder (show working).
2. ii. Read and record the following time in second for the stop watch below





1. identify the cell above
2. name the parts labelled A,B and C
3. state the function each for the parts labelled A, and B
4. what pigment is found in structure C
5. what is the function of this pigment
6. what is the function of the mitochondrion
7. a. i. What is an organelle?

ii. List four organelle that are found in plant cell.

1. i. Define the following and state one function or importance of each.
* soil air
* soil water
* organic matter
1. i. Convert the following into metres
* 500 cm
* 650 km
* 10000 cm

 ii. A stone of mass 80.0g was gently dropped into measuring cylinder containing a water. If the level of the water rose from 78cm3 marks to 80.0cm marks. Calculate the density of the stone.

1. a. i. Briefly explain the following
* excretion
* respiration
* reproduction

ii. State three (3) similarities between plant and animal

b. i. What is weathering of rock?

ii. Outline three (3) agents that causes weathering of rock.

c. i. What is density?

ii. Explain why a steel ship would float on water

1. a. i. What is technology?

ii. State three (3) differences between science and technology

b. i. state the SI unit for the following substance

1. amount of substance
2. mass
3. temperature
4. velocity
5. area

ii. State three (3) differences between mass and weight

1. Find the density of cylindrical substance with radius of base r = 0.1m and height, h = 0.5m, if the mass of the cylinder is 44kg (take $π$= 22/7) Clue: volume of cylinder = $π$r2h
2. a. i. What is a cell?

ii. state five characteristics of living things.

iii. state three differences between plant cells and animal cells.

b. i. State three importance of the soil to plants and animal.

ii. Mention three components of soil.

c. i. Explain why a piece of object like copper would sink in water.

ii. Explain how you would determine the volume of irregular object (stone).