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SC51713 WASSCE 2022 INTEGRATED SCIENCE 1 **Objective Test** 1 hour

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PAST QUESTIONS QUIZZES REVISION NOTES SYLLABUS / CHIEF EXAMINERS' REPORT LESSON NOTES FREE COURSES CAREER / SCHOLARSHIP OPPORTUNITIES STUDENT NEWS

THE WEST AFRICAN EXAMINATIONS COUNCIL

West African Senior School Certificate Examination for School Candidates

SC 2022

INTEGRATED SCIENCE 1 PAPER 1

1 hour

[50 marks]

Do not open this booklet until you are told to do so. While you are waiting, read and observe the following instructions. Write your name and index number in the spaces provided above.

- Use 2B pencil throughout.
- On the pre-printed answer sheet, check that the following details are correctly printed: 2. (a)
 - In the space marked Name, check your surname followed by your other names. (b)
 - In the spaces marked Examination, Year, Subject and Paper, check 'WASSCE', 'SC 2022', 'INTEGRATED SCIENCE', and '1' respectively.
 - In the box marked Index Number, your index number has been printed vertically in the (c) spaces on the left-hand side, and each numbered space has been shaded in line with each digit. Reshade each of the shaded spaces. (d)
 - In the box marked Subject Code, the digits 517113 are printed vertically in the spaces on the left-hand side. Reshade the corresponding numbered spaces as you did for your index number.
- An example is given below. This is for a male candidate whose name is Aaron Kwesi NKOAH. 3. His index number is 7102143958 and he is offering Integrated Science 1.

THE WEST AFRICAN EXAMINATIONS COUNCIL

PRINT IN BLOC Name:	KOAH AARON KWESI	GHA
Examination:	WASSCE	563033
Subject:		Year: SC2022 Paper: 1
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Answer all the questions.

Each question is followed by four options lettered A to D. Find the correct option for each question and shade in pencil on your answer sheet, the answer space which bears the same letter as the option you have chosen.

Give only one answer to each question. An example is given below.

Which of the following	elements is a metal?
------------------------	----------------------

- A. Carbon
- B. Copper
- C. Helium
- D. Krypton

The correct answer is Copper, which is lettered \mathbf{B} , and therefore answer space \mathbf{B} would be shaded.

Think carefully before you shade the answer spaces; erase completely any answers you wish to change.

Do all rough work on this question paper.

Now answer the following questions.

- 1. One of the advantages of the free range system of poultry is that
 - A. green feed is always not available.
 - B. birds can exercise their bodies.
 - C. record keeping becomes a challenge.
 - D. elaborate housing is required.
- 2. Which of the following metals is a liquid at room temperature?
 - A. Lead
 - B. Aluminium
 - C. Silver
 - D. Mercury
- 3. An example of a corm is
 - A. yam.
 - B. ginger.
 - C. cocoyam.
 - D. onion.
- 4. In the periodic table, all the elements within the same group have the same
 - A. number of electrons available for bonding.
 - B. atomic number.
 - C. number of neutrons in the nuclei.
 - D. number of isotopes.

5.	An electrical component that is used to a 3
	An electrical component that is used to vary electric current is the A. ammeter.
	B. voltmeter.
	C. rheostat.
	D. amplifier.
6,	Thinning out means
	spacing out seedlings in the nursery.
	B. removing diseased crops from the farm.
	C. spacing out seedlings when planting.
	D. removing extra seedlings from a stand.
7.	A body has a weight of 720 N. Calculate the mass of the body. $[g = 10 \text{ m s}^{-2}]$
	7.2 Kg
	B. 72 kg
	C. 720 kg
	D. 7200 kg
8	A mating ratio of 1:50 in goat breeding means that 800 females could be serviced by
	50 maies.
	B. 16 males.
	C. 6 males.
	D. 60 males.
9.	Which of the following statements about resistors connected in parallel is correct ? The total
100	resistance is
	A. the addition of the resistance.
	B. less than any one of them.
	C. equal to the greatest resistance.
	D. greater than any one of them.
$10_{\rm ki}$	Lime juice tastes sour because it contains
	A. acid.
	B. double salt.
	C. alkali.
	D. basic salt.
11.	Which of the following alloys contain copper?
	I. Brass II. Bronze
	STORES
	III. Duralumin
	A. I and II only
	B. I and III only
	C. II and III only
	D. I, II and III
12.	The radioactive radiation with the least penetration power is
	A. alpha particle.
	B. gamma ray.
	C. beta particle.
	D. x-ray.

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22	An electric appliance is rated 60 W. This means the appliance A. runs on a main voltage of 60 V. B. uses a current of 60 A per second. C. uses 60 J of energy every second. D. has a resistance of 60 W.
23.	The gas in the stratosphere that absorbs ultra violet rays to minimize the heat reaching the earth's surface is A. carbon(IV) oxide. B. chlorofluorocarbons. C. oxygen. D. ozone.
24.	The component of air used for welding is A. O_2 . B. N_2 . C. CO_2 . D. C_2H_2 .
25.	 Which of the following statements about small scale industry is correct? It A. makes use of advanced technology. B. is always capital intensive. C. is always in rural areas. D. operates with minimum input of materials.
26.	One function of water in the germination of seeds is that it A. causes the seed to produce auxins. B. kills the germs in the seed. C. activates the enzymes to breakdown stored food. D. terminates the period of dormancy.
27,	The most important climatic factor affecting crop production in West Africa is A. temperature. B. sunlight. C. rainfall. D. wind.
28.	DNA testing is used to determine A. the sex of a baby. B. whether twins will be born. C. the father of a child. D. when a baby is to be born.
29.	Which of the following substances contribute(s) to the depletion of the ozone layer? I. Carbon(II) oxide II. Chlorofluorocarbon III. Carbon(IV) oxide A. I only
	B. II only C. I and II only D. II and III only

0.5		ument that could be used to measure the relative density of all acid is			
	Α.	anemometer.			
	В.	hydrometer.			
		barometer.			
	D.	hygrometer.			
31.	A disad	vantage of practicing mixed cropping is the			
J Ig	A.	destruction of virgin forests.			
	В.	competition for soil nutrients among crops.			
	C.	establishment of weeds among crops.			
	D.	high rate of disease spread.			
32.	The essential parts of a flower are the				
O MILL	A.	stamen and sepal.			
	В.	pistil and stamen.			
	C.	stamen and ovule.			
	D.	pistil and corolla.			
22	The ma	s used in the welding torch belongs to the family of			
33 _*	A.	alkanoates.			
	В.	alkanes.			
	C.	alkynes.			
	D.	alkenes.			
34.	The fra	action of petroleum distillation used as fuel for heavy duty engine is			
	$A_{\cdot \cdot}$	bitumen.			
	В	diesel.			
	C.,	gasoline.			
	D_*	kerosene.			
35.	Which of the following structures in plants prevents water loss?				
	Α.	Phloem			
	В	Mesophyll			
	С.	Xylem			
	D.	Cuticle			
36.	The te	erm used to describe all chemical reactions occurring inside an organism is			
0 0 1	A	metabolism.			
	В.	condensation.			
	C.	oxidation.			
	D.	polymerization.			
37 a	An ex	cample of fungal disease of stored grains is			
07.5	Α.	damping off.			
	В.	soft rot.			
	C.	maize smut.			
	D.	mould.			
38.	The following substance are air pollutants except				
201	A.	fertilizer.			
	В.	sulphur(IV) oxide.			
	C.	dust.			
	D.	exhaust fumes.			
	٠.				

- Addition of an atom of a pentavalent element to a tetravalent element 39. I. is known as doping. II. forms an *n*-type semiconductor. III. forms a *p*-type semiconductor. Which of the following statements above are correct? Α. I and II only В. I and III only C. II and III only D. I, II and III The blood vessel that carries oxygenated blood to the heart is 40. pulmonary vein. В. pulmonary artery. C. aorta. D. vena cava. The gas produced when dilute hydrochloric acid reacts with trioxocarbonate(IV) salt is 41. carbon(IV) oxide. Α. В. carbon(II) oxide. C. hydrogen. D_{i} ammonia. 42. The burdizzo is purposely used for castrating farm animals. В. earthening-up. C. trimming crop plants. D. ear notching farm animals. During thunderstorm, lightning is seen before the sound is heard although both occur at the 43 same time. This is because sound needs a material medium for propagation. В. light waves are mechanical. C. light travels faster than sound. sound waves are longitudinal whereas light waves are transverse. D. The material used for propagating cassava is the 44 Α. root tuber. В. stem cutting. C. sucker. D. seed.
- 45. The vacuum flask minimizes heat loss by
 - I. having a vacuum between the two surfaces.
 - II. polishing the two surfaces.
 - III. using a cork stopper.

Which of the statements above are correct?

- A. I and II only
- B. I and III only
- C. II and III only
- D. I, II and III

A. 40.0 A

46.

- B. 1.6 A
- C. 10.0 A
- D. 0.6 A
- 47. A flower with both stamens and carpels is said to be
 - A. a hermaphrodite.
 - B. irregular..
 - C. monoecious
 - D. dioecious.
- The largest excretory organ of the human body is the
 - A. liver.
 - B. skin.
 - C. pancreas.
 - D. lungs.
- 49. An important function of organic matter in the soil is to
 - A. improve texture of the soil.
 - B. control harmful bacteria in the soil.
 - C. serve as a mulch.
 - D. supply both micro and macro nutrients.
- 50. Good quality seeds should be
 - A. free from dirt, weed seeds and pest.
 - B. brightly coloured.
 - C. hard seed coat with small micropyle.
 - D. dressed with recommended chemicals.

END OF PAPER