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## THE WEST AFRICAN EXAMINATIONS COUNCIL GHANA

#### Basic Education Certificate Examination

June 2025

SCIENCE 2&1
ESSAY AND OBJECTIVE

2 hours 10 minutes

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

This booklet consists of two papers. Answer Paper 2 which comes first, in your answer booklet and Paper 1 on your Objective Test answer sheet. Paper 2 will last 1 hour 25 minutes after which the answer booklet will be collected. Do not start Paper 1 until you are told to do so. Paper 1 will last 45 minutes.

Answer all the questions in your answer booklet.

This paper is in two sections: A and B. Answer Question 1 in Section A and any other three questions in Section B.

Credit will be given for clarity of expression and orderly presentation of material.

## SECTION A [40 marks]

Answer all the questions in this section

1. (a) Figure 1(a) is an illustration of a natural cycle showing unnamed stages and processes labelled A, B, C and D with processes labelled P, Q, S and T. Study the figure carefully and answer the questions that follow.

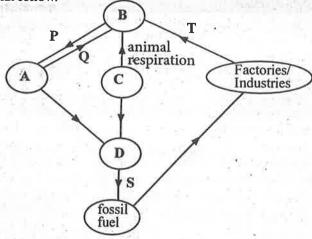


Figure 1(a)

- (i) Name each of the stages labelled A, B, C and D.
- (ii) Name each of the processes labelled P, S and T.
- (iii) State three activities of humans that could disrupt the cycle.

[10 marks]

(b) Figure 1(b) is an illustration of two types of farming systems practised in Ghana labelled K and L. System K represents four farmlands labelled A, B, C and D and the arrows indicate movement of the farmer over a period of time as shown.

System L represents a farmland divided into four plots 1, 2, 3 and 4 and the arrows indicate the movement of the crops cultivated over the period.

Study the figure carefully and answer the questions that follow.

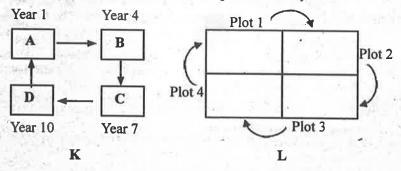


Figure 1(b)

- (i) Name each of the farming systems labelled K and L.
- (ii) Give the reason for each of the names given in (i).
- (iii) State two ways in which the farming system K is of importance to the farmer.
- (iv) Give three reasons why the farming system K is not being encouraged in recent times.
- (v) Name one type of crop that could be included in the farmland L to improve the fertility of the soil. [10 marks]

Figure 1(c) is an illustration of a mason pulling a slab by means of a rope up an inclined plane. The (c) labels I, II and III represent forces acting on the slab. Study the figure carefully and answer the questions that follow.

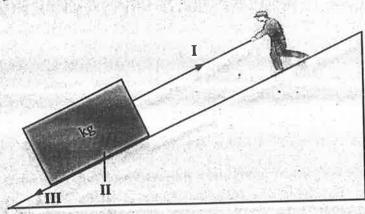


Figure 1(c)

- Give three examples of the use of inclined planes in everyday life.
- (i) Given that I is 400 N and moves a distance of 10 m whiles II is 100 N and moves a (ii) distance of 5 m, calculate the:
  - work output; (a)
  - work input; (B)
  - efficiency. (8)

[10 marks]

Figure 1(d) is an illustration of experimental set-ups A and B used to demonstrate a scientific (d) principle. Study the figure carefully and answer the questions that follow.

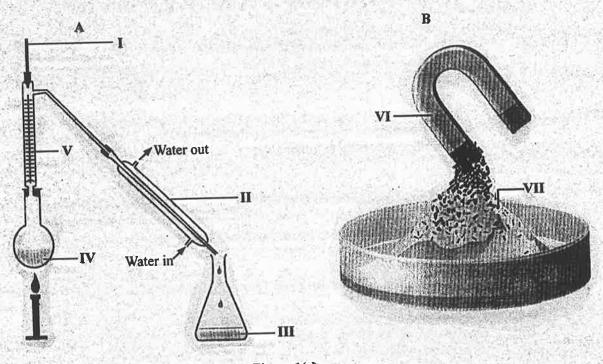


Figure 1(d)

- Name the scientific principle being demonstrated in both A and B. (i)
- Describe briefly the functions of each of the parts labelled II and VI. (ii)
- Name any two types of materials that could be present in each of the set-ups labelled: (iii)
  - (a) III;
  - VII. (B)
- Give the reason why the direction of water flow in A must not be reversed. (iv)

[10 marks]

# SECTON B [60 marks] Answer three questions only from this section.

2.	(a)	(i) (ii)	State three ways of conserving energy in the home.  An electrical appliance in the home uses 4000 W of electric power every 12 hour Calculate the energy used within this time.				
			Calculate the energy used within this time.	[7 marks]			
	(b)	(i)	Give two examples of an acid-base indicator.				
		(ii)	State the colour change of each indicator given in (i) in an orange juice.	[4 marks]			
	(c)	(i) (ii)	State four activities that could be undertaken to ensure a green economy in Gha Name two primary green-house gases associated with industrialization.	na.			
				[6 marks]			
0	(d)	Descri	be briefly how compost could be prepared for a backyard garden.	[3 marks]			
3.	(a)	Name	two:				
•	G.	(i) (ii)	animal products used in preparing protein-rich feed for poultry; plant products used in preparing carbohydrate-rich feed for poultry.				
				[4 marks]			
-	<i>(b)</i>	Descri	be briefly the water cycle.	[6 marks]			
	(c)	Air, vii		크			
			essential to life. or is a <b>common</b> household substance.				
		(i) (ii)	Name the two major components of each mixture.  Which of the components named in (i) acts as the solvent in each of the mixtures?				
	er.	Ų.	mixtures?	[6 marks]			
	(d)	(i) (ii)	State two reasons why there is no life on the planet Jupiter.  List two other outer planets without life.	200			
*		(11)	Dist two other outer planes without life.	[4 marks]			
4.	(a)	(i) (ii)	Explain briefly why a kitchen knife is sharpened in order to cut a piece of yam of A force of 10 N is exerted on a piece of yam using a knife of cross-sectional area.				
8	9.		$1 \times 10^{-3}$ m <sup>2</sup> . Determine the pressure exerted.	[6 marks]			
				[O marks]			
	(b)	Outline	e the procedure used to estimate the pH value of a soil sample.	[6 marks]			
	(c)	-	ent's blood pressure when measured read 150/90 mmHg.				
	F.	(i) (ii)	State the significance of the values.  State three remedies that could be recommended to the patient referred to in (c) other than medication.				
	A 371	=;e;		[5 marks]			
	(d)	State th	hree characteristics of silage that has made its use desirable in recent times.	[3 marks]			

5

5.

(a)	Explain	briefly how each of the following farming systems are practised:	
` '		organic farming;	
2	(ii)	mixed farming;	
	(iii)	mixed cropping.	tc 1-1
			[6 marks]
(b)	Classify	y a mixture of each of the following pairs of substances as either a homogeneous	
(-)		rogeneous mixture:	
	(i)	oil and water;	
	(ii)	salt and water;	
	(iii)	ethanol and water.	[3 marks]
(0)	(i)	Give two reasons why energy from the sun is said to be renewable.	
(c)	(ii)	State three differences between heat and temperature.	
	(11)	State sures directions of the state of the s	[5 marks]
		#	(A)
165	Evolui	briefly two effects each of the following factors on the Nitrogen cycle:	
(d),		leaching;	
(4)	(i) (ii)	removal of leguminous plants.	
	(11)	TOTILOTEL OF 12Berrary and branch	[6 marks]

END OF ESSAY TEST

a Mineri

# BLANK SHEET

## DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

YOU WILL BE PENALIZED SEVERELY IF YOU ARE FOUND LOOKING AT THE NEXT PAGE BEFORE YOU ARE TOLD TO DO SO.

## WHILE YOU ARE WAITING, READ THE FOLLOWING INSTRUCTIONS CAREFULLY

PAPER 1
OBJECTIVE TEST
[40 marks]

45 minutes

- 1. Use 2B pencil throughout.
- 2. On the pre-printed answer sheet, check that the following details are correctly printed:
  - (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 'BECE', '2025', 'SCIENCE', and '1' respectively.
  - (c) In the box marked Index Number, your index number has been printed vertically in the 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 034012 are printed vertically in the spaces on the left-hand side. Reshade the corresponding numbered spaces as you did for your index number.
- 3. An example is given below. This is for a male candidate whose name is Daniel Nii DOTSEY. His index number is 7102143958 and he is offering Science 1.

### THE WEST AFRICAN EXAMINATIONS COUNCIL ANSWER SHEET

PRINT IN BLOCK LETTERS  DOTSEY DANIEL NII  Name:		GHA
Examination: BECE	Year:	2025
Subject: SCIENCE	Paper:	
INSTRUCTIONS TO CANDIDATES  1. Use grade 2B pencil throughout. 2. Answer each question by choosing one letter and shading like this:   2. Erase completely any answer you wish to change. 4. Leave extra spaces blank if the answer spaces provided are more than you have a completely any answer you wish to change. 5. Do not make any markings across the heavy black marks at the right hand.	u need.	La la Maria de la Carta de la

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2	c0=	c1=		⊏3⊐	c4=	<b>=5</b> =	<b>c</b> 6⊐	<b>=7</b> =	⊏8⊐	⊏9⊐
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CLIP ICOT CODE

e2025 The West African Examinations Council

Answer all the questions.

1.

2.

3.

4.

**5**.

C.

D.

avoid alcohol.

practice personal hygiene.

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.

chosen	i. Give only one answer to each question. An example is given below		
Which	of the following elements reacts with water?		
A.	Carbon		
В.	Sodium		
C.	Sulphur		
D.	Iodine		
The co	rrect answer is Sodium which is lettered B and therefore answer spa	ice <b>B</b> would be	shaded.
Think	carefully before you shade the spaces; erase completely any answer y	ou wish to ch	ange.
Do all	rough work in this question paper.		-3
Now a	nswer the following questions.		
The fo	llowing factors hinder vegetable production in Ghana except?		11.747
A.	high cost of agricultural chemicals.		
В.	lack of market for farm produce.		
C.	irregular rainfall pattern.		
D.	availability of sunlight.		
	1 10		
The S	I unit of energy is represented as		E
A.	Joule.		
B.	joule.		
C.	j.	XI (A	
D.	Js.		
A boo	k is at rest on a table. The net force acting on the book could be descr	ribed as one th	at T
A.	is balanced.		
B.	is unbalanced.		
C.	is due to friction.		-
D.	obeys Newton's second law.	10000	
	*		
An ex	ample of a communicable disease is		
A.	asthma.		
В.	diabetes.		
C.	hepatitis.		
D.	hypertension.		- 8
To sto	op the spread of a disease caused by a dirty environment, one must		
A,	eat healthy diet.	5	
В.	ensure regular exercise.		

				9			
6.	An ani	mal feed made up of high	n fibre is most l		n	5	
	Α.	maize grain.		•			
	В.	silage.					
	C.	soybean.	•				9
	D.	wheat grain.					
	D.	Whoat gram.					
7.	Charle	s Darwin is famous for					
* 9. 165	A.	discovering penicillin.		15			
	В.	his work on the origin of	of the universe.				
	C.	his work in the field of					
	D.	his theory of natural sel					1. 5.69
						8	
8.	Which	of the following Ghanaia	an scientists is	known for prot	noting Mathe	matics and I	Physics?
	A.	Prof. Anamuah Mensah					
	В.	Prof. Ewurama Addy					
	C.	Prof. Francis Allotey				8	
	D.	Prof. Osei Anto	8				
		*		12 U			
9	A mar	igo of mass 2 kg hangs 15	5 m on top of a	mango tree. D	etermine the	value of the l	kinetic energy
- 72	attaine	ed just before it hits the g	round. $[g = 10]$	m s <sup>-2</sup> ]			
	Α	30.0 J					
	В.	225.0 J					
	C	300.0 J	• (#				
	D.	3.0 J				18	
	٥.						
10.	An ex	ample of a mono-gastric	animal is		=		
	Α.	cattle.					
						- x	
	В.	goat.	•				
	B. C.	goat.		n La			
	C.	sheep.					
. Š., r	C. D.	sheep. rabbit.		r og ju Ortotur			
11.	C. D.	sheep. rabbit.	ents accuratel	y explains the p	positions of ca	lcium and m	nagnesium
11.	C. D. Whic	sheep. rabbit. h of the following statement	ents accurately	y explains the p	positions of ca	lcium and m	nagnesium
11.	C. D. Whice	sheep. rabbit. h of the following statemereriodic table? They all	ents accurately have the same	y explains the p	oositions of ca	licium and m	nagnesium
11.	C. D. Whice in the A.	sheep. rabbit.  h of the following statemer periodic table? They all proton number.	ents accurately have the same	y explains the p	oositions of ca	lcium and m	nagnesium
11.	C. D. Whice in the A. B.	sheep. rabbit.  h of the following statemer periodic table? They all proton number. valence electrons.	ents <b>accuratel</b> have the same	y explains the p	positions of ca	ilcium and m	nagnesium
11.	C. D. Whice in the A. B. C.	sheep. rabbit.  h of the following statemed periodic table? They all proton number. valence electrons. number of shells.	ents accurately have the same	y explains the p	positions of ca	ilcium and m	nagnesium
11.	C. D. Whice in the A. B. C. D.	sheep. rabbit.  h of the following statemer periodic table? They all proton number. valence electrons. number of shells. atomic structure.	have the same				
	C. D. Whice in the A. B. C. D.	sheep. rabbit.  h of the following statemer periodic table? They all proton number. valence electrons. number of shells. atomic structure.	have the same				
11. 12.	C. D. Whice in the A. B. C. D.	sheep. rabbit.  h of the following statemed periodic table? They all proton number. valence electrons. number of shells. atomic structure.  h of the following food statements.	have the same				
	C. D. Whice in the A. B. C. D. Whice with	sheep. rabbit.  h of the following statemed periodic table? They all proton number. valence electrons. number of shells. atomic structure.  h of the following food statements.	have the same				
	C. D. Whice in the A. B. C. D. Whice with A.	sheep. rabbit.  h of the following statemer periodic table? They all proton number. valence electrons. number of shells. atomic structure.  h of the following food statemer periodic structure.  Millon's reagent? Banana	have the same				
	C. D. Whice in the A. B. C. D. Whice with A. B.	sheep. rabbit.  h of the following statemer periodic table? They all proton number. valence electrons. number of shells. atomic structure.  h of the following food statemer periodic structure.  Millon's reagent? Banana Groundnut	have the same				
	C. D. Whice in the A. B. C. D. Whice with A. B. C.	sheep. rabbit.  h of the following statemed periodic table? They all proton number. valence electrons. number of shells. atomic structure.  h of the following food statemed periodic structure.  Banana Groundnut Orange juice	have the same				
	C. D. Whice in the A. B. C. D. Whice with A. B.	sheep. rabbit.  h of the following statemer periodic table? They all proton number. valence electrons. number of shells. atomic structure.  h of the following food statemer periodic structure.  Millon's reagent? Banana Groundnut	have the same				
12.	C. D. Whice in the A. B. C. D. Whice with A. B. C. D.	sheep. rabbit.  h of the following statemer periodic table? They all proton number. valence electrons. number of shells. atomic structure.  h of the following food statemer of the food	have the same	ld produce a red	d precipitate v		
	C. D. Whice in the A. B. C. D. Whice with A. B. C. D.	sheep. rabbit.  h of the following statemer periodic table? They all proton number. valence electrons. number of shells. atomic structure.  h of the following food statemer periodic structure.  h of the following food statemer periodic structure.  Banana Groundnut Orange juice Pineapple juice	have the same	ld produce a red	d precipitate v		
12.	C. D. Whice in the A. B. C. D. Whice with A. B. C. D. The A.	sheep. rabbit.  h of the following statemed periodic table? They all in proton number. valence electrons. number of shells. atomic structure.  h of the following food statemed periodic structure.  h of the following food statemed periodic structure.  Banana Groundnut Orange juice Pineapple juice rise in heat waves and flow climate change.	have the same	ld produce a red	d precipitate v		
12.	C. D. Whice in the A. B. C. D. Whice with A. B. C. D. The A. B.	sheep. rabbit.  h of the following statemed periodic table? They all in proton number. valence electrons. number of shells. atomic structure.  h of the following food statemed periodic structure.  h of the following food statemed periodic structure.  Banana Groundnut Orange juice Pineapple juice rise in heat waves and flood climate change. greenhouse gases.	have the same	ld produce a red	d precipitate v		
12.	C. D. Whice in the A. B. C. D. Whice with A. B. C. D. The A.	sheep. rabbit.  h of the following statemed periodic table? They all in proton number. valence electrons. number of shells. atomic structure.  h of the following food statemed periodic structure.  h of the following food statemed periodic structure.  Banana Groundnut Orange juice Pineapple juice rise in heat waves and flow climate change.	have the same	ld produce a red	d precipitate v		

14.	Which	n of the following waste disposal practic	ces is best for plast	ic disposa	17	
	A.	Burning				
A Physical	B.	Composting				The state of the
	C.	Incineration				to the second
	D.	Recycling				
15.	Which	h of the following organisms is prokary	otic?			
15.	A.	Bacteria				
	В.	Earthworm				
10	C.	Fungus				
	D.	Plant				
E RA	D.	Train				
16.	The f	first step in the digestion of fats in the bo	ody is that			
10.	A.	bile breaks down the fat in the gall b	ladder.			
	B.	bile breaks down the fat in the duode	enum.			
		lipase breaks down the fat in the par	creas.		0.0	
in the state	C.	lipase breaks down the fat in the ileu	ım.			
	D.	inpase breaks down the fat in the				Fig. 10 18 2 1892
4.00	WH.	ch of the following statements best expl	ains animal feed?			
17.		Food grown or developed for livesto	ock			
	A.	Balanced diet provided to animals				
	B.	Breast milk served to a calf		5 (6)	A 2 4	
4	C. D.	Grass that is used to feed livestock				
Store!				Name of		LITERAL CONT.
4.0	3371.1	ch of the following activities does not r	elate to the princip	les of pres	sure in the dai	ly lives of humans?
18.		Drinking straw in use by the people	at a party			
	A.	Pumping air into car tyres	6		and the second	13
	B.	Filling of balloons with air				
	C.	A person jerking forward when a sp	needing car sudden	ly stops	e"	
	D.			The second second	MAN OF S	2017 July 2017
19.	Ap	atient has been diagnosed of hypertensic	on. Which of the fo	ollowing re	eadings is mos	t likely the
11.6	nati	ent's blood pressure?	4,97	6.101,000	ALC: AND ALC: A	A 90 1
	A.	110/85			and the state of the same	
	B.	120/80			how Y I made to	
	C.	130/85	5.39UKH	lease of a	1 - 2-1	3
	D.	140/90	11 70			
	44.5				heneficial to bo	
20.	Wh	nich of the following associations betwe	en two organisms	is aiways	John Maria de Le	
	A.	Commensalism		2		
a	B.	Mutualism				
	C.	Saprophytism		- 4		197
	D.	Symbiosis				
0			anifed as a viral d	isease?		20
21.		hich of the following diseases can be cla	assilied as a vital d			Tours of the second
2 2 3	Α.		gent a west			1777
	В.					
	C.				· .	
	D.	Ringworm	MV No. of the last	T.		Hard to the State of the
2, 3, 25						
	124		Z		THE REL	
			145 to 15			
The second second second		The second secon				

I and II only A.

II and III only B.

III and IV only

II, III and IV only D.

Combination of science, technology and innovation is needed in Chana because it 23:

equips students to travel abroad and work.

makes students develop interest in science, technology and innovation. B.

makes students understand their environment better. €.

promotes national development. D.

A rod appears bent when immersed in water. Which property of light is demonstrated? 24.

Refraction Α.

Reflection B.

C. Dispersion

Rectilinear propagation D.

Which of the following heart conditions in humans is caused by plaque deposits in the arteries? 25.

Atherosclerosis

Heart attack B.

Heart failure C.

D. Stroke

A grassland ecosystem that consists of snakes, toads and grasshoppers is most likely to 26. produce a food chain of

toad 🕮 grass 👄 grasshöpper 🖦 snake. A.

grass - grasshopper - toad - snake. B.

grasshopper --- grass --- toad --- snake. C.

grass - toad - grasshopper - snake. D.

A fruit with sour taste is most likely to have a pH that is 27.

less than 7.

greater than 7. B.

equal to 14. C.

equal to 7.

Which of the following insect(s) show(s) the egg, nymph and adult stages in its life cycle? 28.

Grasshopper

Housefly 11.

Mosquito 111.

I only

I and III only B.

Il and Ill only €.

I. II and III D.

<b>29</b> .	The te	rm used to describe a rac	Joit grame on an is		
	Α.	culling.		JD	
	В.	dubbing.		.00	
	C.	kindling.			
	D.	weaning.		¢	
30.	Which	of the following statem	ents best explains the	term ecosystem? It is	3
	Α.	a group of organisms (	of the same species that	t live in the same pia	ice at the same time.
	В.	a group of populations	s living in the same are	a at the same time.	•
	C.	the part of the earth's	environment where life	e exists.	,
	D.	a community of living	and non-living things	interacting with each	n other.
31.	⊸ Whic	h of the following types	of manure is suitable f	or a vegetable garde	n?
31.	A.	Cow dung			
	B.	Dog faecal waste			
	C.	Human excreta			- 2
	D.	Pig dung			
			•		
32.		eding female pig is calle doe.	d a	Š	#
	A.	gilt.		v6	
	B.	heifer			
	C.				P 70
	D.	sow.			
33.	Whic	ch of the following energ	y sources is/are environ	nmentally friendly?	/ · · · ·
	I.	Wind			, , ,
	II. 8	Hydro	2.		
	III.	Biomass			
					4.0
	A.	I only			
	В.	II only			. 1
0.00	- C.	I and II only			7 Tu
	D.	I, II and III			10
34.	Gen	ns that infect the respirat	tory system are frequer	ntly spread through	
0 10	I.	mucus.	G		
	II.	air pollution.			1 2.
	III.	coughs.	,		
					= (2
	_ A.	I only	34	W	R2
	B.	II only		599	
	C.	II and III only			
	D.	I, II and III			*
35.	The	chemical formula of iro	n (II) sulphide is	я е	
	A.	FeS <sub>2</sub> .			
		2		w 2 - 21	engila ili
	B.	Fe <sub>2</sub> S.		2	7
	C.	FeS.			
	D.	Fe <sub>2</sub> S <sub>3</sub> .			
		77			€.
		F			

- 36. The following soil qualities are important for crop production except
  A. high salinity.
  - B. nutrient availability.
  - C. oxygen availability.
  - D. water-holding capacity.
- 37. The characteristics of a fertile soil include good
  - I. aeration,
  - II. texture,
  - III. water-holding capacity.
  - A. I only
  - B. I and II only
  - C. II and III only
  - D. I, II and III
- 38. Which of the following substances has a definite shape?
  - A. Air
  - B. Kerosene
  - C. Stone
  - D. Water
- 39. Which of the following statements best explains why gases are more compressible than solids?
  - A. Particles in gases are smaller than in solids.
  - B. Gases have fixed volume but solids do not.
  - C. Particles in solids have definite shape but gases have no definite shape.
  - D. Particles in gases have wider intermolecular spaces as compared to solids.
- 40. An organism that lives on decaying organic matter, contaminates human food, feeds on rotten fruits and transfers germs is most likely a
  - A, fungus.
  - B. grasshopper.
  - C. housefly.
  - D. mosquito.

END OF PAPER