

SC2042&1  
WASSCE 2021  
GEOGRAPHY 2&1  
Essay and Objective  
3 hours

2&1

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THE WEST AFRICAN EXAMINATIONS COUNCIL  
West African Senior School Certificate Examination  
for School Candidates

SC 2021

GEOGRAPHY 2&1

3 hours

*Do not open this booklet until you are told to do so. While you are waiting, write your **name** and **index number** in the spaces provided at the top right-hand corner of this booklet and thereafter, read the following instructions carefully.*

*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 for 2 hours after which the answer booklet will be collected. Do not start Paper 1 until you are told to do so. Paper 1 will last for 1 hour.*

*Answer four questions in all. Candidates in Nigeria are to answer two questions each from sections A and B while candidates in Ghana, Liberia, Sierra Leone and The Gambia are to answer at least one question from each of sections A, B and C. All questions carry equal marks.*

SECTION A  
**FOR ALL CANDIDATES**

ggghhh

*Candidates in Ghana, Liberia, Sierra Leone and The Gambia are to answer at least one question from this section while candidates in Nigeria are to answer two questions from this section.*

1. The Table X below contains information on population of **four** districts of country Z in the year 2016. Use the information to answer the questions which follow.

Table X

District	Population (millions)	Land Area (km <sup>2</sup> )
A	5.5	60,000
B	8.0	105,000
C	6.7	125,000
D	4.8	88,000

- (a) Calculate the:
- (i) total population of Country Z; [2 marks]
  - (ii) total land area of Country Z; [2 marks]
  - (iii) population density of Country Z. [2 marks]
- (b) State **four** factors which are responsible for high population density of countries. [8 marks]
- (c) Explain **three** advantages associated with countries of high population density. [6 marks]
2. (a) (i) Define *settlement*. [2 marks]
- (ii) Name **two** types of urban settlement classified according to population size. [2 marks]
- (b) In what **five** ways are urban settlements dependent on rural settlements? [10 marks]
- (c) Outline **three** functions of urban settlements. [6 marks]
3. (a) What is *tourism*? [2 marks]
- (b) Outline **five** factors that favour the development of tourism. [10 marks]
- (c) Highlight **four** problems created by the tourism industry in developing countries. [8 marks]

SECTION B  
**FOR CANDIDATES IN NIGERIA**

*Answer two questions from this section.*

4. (a) Draw a sketch map of Nigeria. [1 mark]
- On the map, locate and name:
- (i) the Kainji dam; [2 marks]
  - (ii) Lake Chad; [2 marks]
  - (iii) Ibadan. [1 mark]

ggghhh

- (b) Highlight **three** factors that impede the development of solar energy in Nigeria. [6 marks]
- (c) Explain **four** problems created by the construction of the Kainji dam in Nigeria. [8 marks]
5. (a) Draw a sketch map of Nigeria. [1 mark]  
On the map, show and name:  
(i) Latitudes  $4^{\circ}\text{N}$  and  $14^{\circ}\text{N}$ ; [2 marks]  
(ii) Longitudes  $3^{\circ}\text{E}$  and  $15^{\circ}\text{E}$ ; [2 marks]  
(iii) Enugu. [1 mark]
- (b) Describe Nigeria under the following headings:  
(i) size; [4 marks]  
(ii) location; [6 marks]  
(iii) position. [4 marks]
6. (a) (i) List **four** industrial towns in Nigeria. [4 marks]  
(ii) Indicate **one** type of industrial activity in **each** of the towns listed in 6(a)(i). [4 marks]
- (b) Outline **three** contributions of industries to the economic development of Nigeria. [6 marks]
- (c) Identify **three** problems which are limiting industrial development in Nigeria. [6 marks]

### FOR CANDIDATES IN GHANA

*Answer at least one question from this section.*

4. (a) Draw a sketch map of Ghana. [1 mark]  
On the map, locate and name:  
(i) Bui dam; [2 marks]  
(ii) Volta lake; [2 marks]  
(iii) Kpong. [1 mark]
- (b) Highlight **three** factors that impede the development of solar energy in Ghana. [6 marks]
- (c) Explain **four** problems created by the construction of the Akosombo dam in Ghana. [8 marks]
5. (a) Draw a sketch map of Ghana. [1 mark]  
On the map, show and name:  
(i) Latitudes  $6^{\circ}\text{N}$  and  $10^{\circ}\text{N}$ ; [2 marks]  
(ii) Longitudes  $1^{\circ}\text{E}$  and  $3^{\circ}\text{W}$ ; [2 marks]  
(iii) Half Assini. [1 mark]
- (b) Describe Ghana under the following headings:  
(i) size; [4 marks]  
(ii) location; [6 marks]  
(iii) position. [4 marks]
6. (a) (i) List **four** industrial towns in Ghana. [4 marks]  
(ii) Indicate **one** type of industrial activity in **each** of the towns listed in 6(a)(i). [4 marks]
- (b) Outline **three** contributions of industries to the economic development of Ghana. [6 marks]
- (c) Identify **three** problems which are limiting industrial development in Ghana. [6 marks]

**Turn over**

# FOR CANDIDATES IN THE GAMBIA

Answer at least one question from this section.

4. (a) Draw a sketch map of Senegambia. [1 mark]  
On the map, locate and name: [2 marks]  
(i) Richard Toll dam; [2 marks]  
(ii) Lac de Guier; [1 mark]  
(iii) Kaolack.
- (b) Highlight **three** factors that impede the development of solar energy in Senegambia. [6 marks]  
ggghhh
- (c) Explain **four** problems created by the construction of the Richard Toll dam in Senegambia. [8 marks]
5. (a) Draw a sketch map of Senegambia. [1 mark]  
On the map, show and name: [2 marks]  
(i) Latitudes  $12^{\circ}$  N and  $16^{\circ}$  N; [2 marks]  
(ii) Longitudes  $12^{\circ}$  W and  $17^{\circ}$  W; [1 mark]  
(iii) Serekunda.
- (b) Describe Senegambia under the following headings: [4 marks]  
(i) size; [6 marks]  
(ii) location; [4 marks]  
(iii) position.
6. (a) (i) List **four** industrial towns in Senegambia. [4 marks]  
(ii) Indicate **one** type of industrial activity in **each** of the towns listed in 6(a)(i). [4 marks]
- (b) Outline **three** contributions of industries to the economic development of Senegambia. [6 marks]
- (c) Identify **three** problems which are limiting industrial development in Senegambia. [6 marks]  
ggghhh

# FOR CANDIDATES IN LIBERIA

Answer at least one question from this section.

4. (a) Draw a sketch map of Liberia. [1 mark]  
On the map, locate and name: [2 marks]  
(i) Mount Coffee dam; [2 marks]  
(ii) Lake Piso; [1 mark]  
(iii) Robertspot.
- (b) Highlight **three** factors that impede the development of solar energy in Liberia. [6 marks]
- (c) Explain **four** problems created by the construction of the Mount Coffee dam. [8 marks]
5. (a) Draw a sketch map of Liberia. [1 mark]  
On the map, show and name: [2 marks]  
(i) Latitudes  $4^{\circ} 20' N$  and  $8^{\circ} 30' N$ ; [2 marks]  
(ii) Longitudes  $7^{\circ} 20' W$  and  $11^{\circ} 30' W$ ; [1 mark]  
(iii) Greenville.

- (b) Describe Liberia under the following headings:
- (i) size; [4 marks]
  - (ii) location; [6 marks]
  - (iii) position. [4 marks]
6. (a) (i) List **four** industrial towns in Liberia. [4 marks]
- (ii) Indicate **one** type of industrial activity in **each** of the towns listed in 6(a)(i). [4 marks]
- (b) Outline **three** contributions of industries to the economic development of Liberia. [6 marks]
- (c) Identify **three** problems which are limiting industrial development in Liberia. [6 marks]

ggghhh

### FOR CANDIDATES IN SIERRA LEONE

*Answer at least one question from this section.*

4. (a) Draw a sketch map of Sierra Leone. [1 mark]
- On the map, locate and name:
- (i) Bumbuna dam; [2 marks]
  - (ii) Lake Mabesi; [2 marks]
  - (iii) Magburaka. [1 mark]
- (b) Highlight **three** factors that impede the development of solar energy in Sierra Leone. [6 marks]
- (c) Explain **four** problems created by the construction of the Bumbuna dam in Sierra Leone. [8 marks]
5. (a) Draw a sketch map of Sierra Leone. [1 mark]
- On the map, show and name:
- (i) Latitudes 8° N and 10° N; [2 marks]
  - (ii) Longitudes 11° W and 13° W; [2 marks]
  - (iii) Bonthe. [1 mark]
- (b) Describe Sierra Leone under the following headings:
- (i) size; [4 marks]
  - (ii) location; [6 marks]
  - (iii) position. [4 marks]
6. (a) (i) List **four** industrial towns in Sierra Leone. [4 marks]
- (ii) Indicate **one** type of industrial activity in **each** of the towns listed in 6(a)(i). [4 marks]
- (b) Outline **three** contributions of industries to the economic development of Sierra Leone. [6 marks]
- (c) Identify **three** problems which are limiting industrial development in Sierra Leone. [6 marks]

ggghhh

**Turn over**

SECTION C  
AFRICA

FOR CANDIDATES IN GHANA, LIBERIA, SIERRA LEONE AND THE GAMBIA

*Answer at least one question from this section.*

ggghhh

7. (a) Explain **five** problems that affect gold mining in South Africa. [10 marks]
- (b) In what **five** ways is gold mining beneficial in South Africa? [10 marks]
8. (a) Draw an outline map of Africa. [2 marks]  
On the map, locate and name:  
(i) the Canary ocean current, showing its direction of flow with an arrow; [2 marks]  
(ii) the Mozambique ocean current, showing its direction of flow with an arrow; [2 marks]  
(iii) the Tropical Continental Climatic belt. [2 marks]
- (b) Outline **four** characteristics of the Tropical Continental Climate. [8 marks]
- (c) Explain **two** effects of the Mozambique ocean current on the climate of the adjacent coastland. [4 marks]
9. (a) Draw an outline map of Africa. [2 marks]  
On the map, locate and name:  
(i) **one** tropical rainforest belt; [2 marks]  
(ii) **one** montane vegetation area; [2 marks]  
(iii) **one** desert vegetation belt. [2 marks]
- (b) Outline **three** characteristics of desert vegetation in Africa. [6 marks]
- (c) Explain **three** contributions of forest vegetation to the economy of Africa. [6 marks]

ggghhh

**END OF PAPER**

**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.**

SC 2021

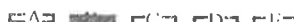
PAPER 1  
OBJECTIVE TEST  
[50 marks]

1 hour

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 'WASSCE', 'SC 2021', 'GEOGRAPHY', 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 204113 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 Adams Smith ACKAH. His *index number* is 7102143958 and he is offering *Geography* 1.


**THE WEST AFRICAN EXAMINATIONS COUNCIL  
ANSWER SHEET**

PRINT IN BLOCK LETTERS	
Name: <b>ACKAH ADAMS SMITH</b>	<b>GHA</b>
Examination: <b>WASSCE</b>	Year: <b>SC 2021</b>
Subject: <b>GEOGRAPHY</b>	Paper: <b>1</b>

<b>INSTRUCTIONS TO CANDIDATES</b>	
1. Use grade 2B pencil throughout.	
2. Answer each question by choosing one letter and shading it like this: 	
3. Erase completely any answer you wish to change.	
4. Leave extra spaces blank if the answer spaces provided are more than you need.	

INDEX NUMBER	
7	0 1 2 3 4 5 6 7 8 9
1	0 1 2 3 4 5 6 7 8 9
0	0 1 2 3 4 5 6 7 8 9
2	0 1 2 3 4 5 6 7 8 9
1	0 1 2 3 4 5 6 7 8 9
4	0 1 2 3 4 5 6 7 8 9
3	0 1 2 3 4 5 6 7 8 9
9	0 1 2 3 4 5 6 7 8 9
5	0 1 2 3 4 5 6 7 8 9
8	0 1 2 3 4 5 6 7 8 9

SUBJECT CODE	
2	0 1 2 3 4 5 6 7 8 9
0	0 1 2 3 4 5 6 7 8 9
4	0 1 2 3 4 5 6 7 8 9
1	0 1 2 3 4 5 6 7 8 9
1	0 1 2 3 4 5 6 7 8 9
3	0 1 2 3 4 5 6 7 8 9

For Supervisors only
If candidate is absent shade this space 

Answer **all** the questions.

**Each** question is followed by four options lettered A to D. Find the **correct** option for **each** question. 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 is the **most** common form of migration in developing countries?

- A. Rural-rural
- B. Rural-urban
- C. Urban-rural
- D. Urban-urban

The correct answer is rural-urban which is lettered B and therefore answer space B would be shaded.

[A]    **[B]**    [C]    [D]    [E]

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

Do all rough work on this question paper.

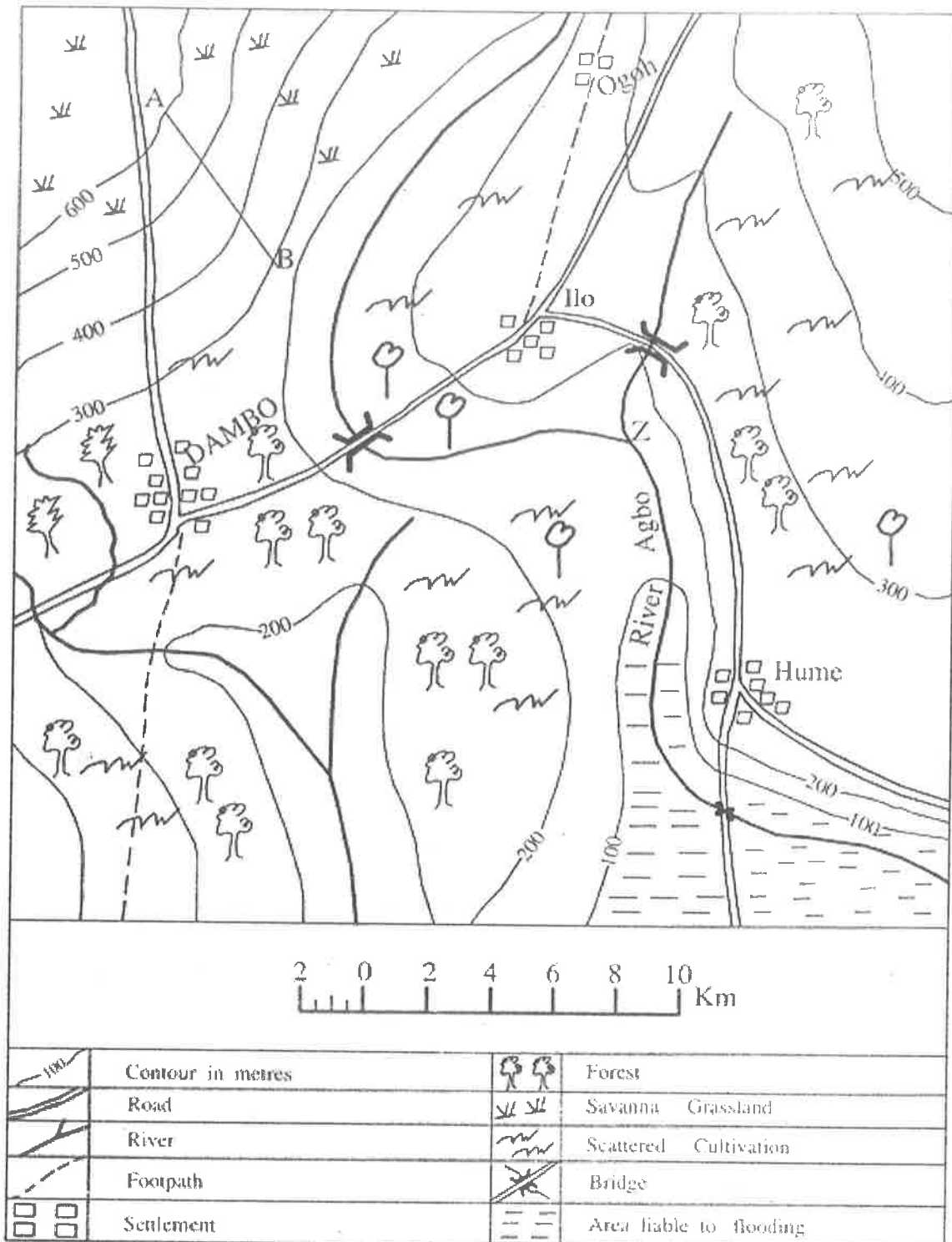
Now answer the following questions.

Study the map of DAMBO DISTRICT and use it to answer questions 1 to 10.

1. The scale of the map in Representative Fraction (RF) is
  - A. 1 : 200,000.
  - B. 1 : 150,000.
  - C. 1 : 50,000. ggghhh
  - D. 1 : 10,000.
2. What is the approximate distance between the settlements of DAMBO and Hume by road?
  - A. 10 km.
  - B. 15 km.
  - C. 20 km.
  - D. 30 km.
3. Line A — B in the mapped area can **best** be described as
  - A. convex slope.
  - B. uniform slope.
  - C. dip slope.
  - D. concave slope.
4. The south eastern corner of the mapped area is
  - A. poorly drained.
  - B. a plantation. ggghhh
  - C. a lake.
  - D. an ocean.
5. The **highest** point of the mapped area is found in the
  - A. South west.
  - B. South east.
  - C. North east.
  - D. North west.



## DAMBO DISTRICT



ggghhh

ggghhh

6. The most popular means of transportation in the mapped area is  
 A. river.  
 B. footpath.  
 C. air.  
 D. road.
7. The distance between DAMBO and Ogoh as the crow flies is approximately  
 A. 5.0 km.  
 B. 10.0 km.  
 C. 20.0 km.  
 D. 26.0 km.
8. The bearing of Ilo from Hume is about  
 A. 330°.  
 B. 210°.  
 C. 145°.  
 D. 35°.
9. All the following are man-made features found on the mapped area except  
 A. dams.  
 B. bridges.  
 C. roads.  
 D. settlements.
10. The direction of DAMBO from Hume is  
 A. North east.  
 B. South east.  
 C. South west.  
 D. North west.

Use the climatic data of Station X to answer questions 11 to 14.

Station X

Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Temperature (°C)	16	20	22	23	25	28	28	30	27	26	23	21
Rainfall (mm)	62	50	56	89	180	189	140	163	228	230	83	41

11. Which month in the station has the **highest** rainfall?  
 A. January  
 B. October  
 C. July  
 D. September
12. What is the annual rainfall for Station X?  
 A. 1511 mm  
 B. 1504 mm  
 C. 1254 mm  
 D. 1160 mm
13. Calculate the range of temperature for the Station.  
 A. 2 °C  
 B. 5 °C  
 C. 12 °C  
 D. 14 °C

14. Which of the following statements is **true** about rainfall in Station X?
- The rainfall duration is six months
  - The station has a double maxima rainfall
  - Rain mainly falls in winter
  - The rainfall in the station is uniformly distributed over the months
15. The rock which has the capacity to retain underground water is
- impermeable.
  - crystalline. *ggghhh*
  - compact.
  - permeable.
16. The temperature reading at the peak of a volcano is 6 °C. What will be the temperature at the foot of the volcano which is 3000 metres from the surrounding lowland?
- 5.5 °C
  - 13.5 °C
  - 25.5 °C
  - 35.5 °C
17. The sun is overhead at the Tropic of Capricorn on
- March 21.
  - December 22.
  - September 23.
  - June 21.
18. Which of the following is a depositional feature of an arid region?
- Barchan
  - Zeugen
  - Rock Pedestal
  - Yardang
19. Which drainage pattern is **best** established in the areas of alternate hard and soft rocks?
- Trellis
  - Centripetal
  - Radial *ggghhh*
  - Annular
20. The time at the Greenwich Meridian is 10:00 a.m. What would the time at 30° E be?
- 8.00 a.m.
  - 8.00 p.m.
  - 12.00 a.m.
  - 12.00 p.m.
21. Which of the following pairs of landforms are of desert origin?
- Yardangs and batholiths
  - Sandbars and tombolos
  - Zeugens and inselbergs
  - Barchans and tombolos
22. On March 21 each year, all towns in the Southern hemisphere experience
- complete daylight for 14 hours.
  - partial darkness.
  - equal lengths of day and night.
  - longer period of twilight.

**Turn over**

- 23.** Which of the following wave actions is a process of erosion?
- Traction
  - Hydraulic .
  - Saltation
  - Suspension
- 24.** A feature produced by water in desert areas is
- barchans.
  - zeugens.
  - yardangs.
  - wadis.
- 25.** The longitude which **almost** bisects Africa into two equal halves, east and west, is longitude
- 20° E.
  - 20° W.
  - 40° E.
  - 40° W.
- 26.** Which of the following elements of weather is matched with the wrong measuring instrument?
- Humidity and barometer
  - Rainfall and rain gauge
  - Sunshine and sundial
  - Windspeed and anemometer
- 27.** Marble is a metamorphosed
- basalt.
  - granite.
  - gabbro.
  - limestone.
- 28.** Which of the following pairs of minerals form the bulk of the inner core of the earth?
- Aluminium and Iron
  - Iron and Nickel
  - Tin and Columbite
  - Silicon and Copper
- 29.** Which of the following pairs of rock examples are sedimentary rocks?
- Graphite and sandstone
  - Gabbro and schist
  - Limestone and chalk
  - Gneiss and granite
- 30.** In the Northern hemisphere, summer solstice is experienced on
- September 22/23.
  - June 21.
  - December 22.
  - March 21.
- 31.** What is the time in Accra at longitude 0° when the local time at longitude 45° W is 12 noon?
- 3 p.m.
  - 5 p.m.
  - 7 p.m.
  - 9 p.m.

32. Which of the following are the possible causes of soil erosion?

- I. Bush burning
- II. Overgrazing
- III. Reafforestation
- IV. Excavation

ggghh

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

33. In Koppen's classification of climates, Af refers to

- A. monsoon.
- B. equatorial.
- C. mediterranean.
- D. desert.

34. Which mountain type is described as the *lighthouse of Mediterranean*?

- A. Block
- B. Fold
- C. Residual
- D. Volcanic

35. Which of the following are achievements of the ECOWAS?

- I. Common market
- II. Free movement of people
- III. Military cooperation
- IV. Trade restriction

ggghh

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

36. The farming technique which can be adopted as a method of soil conservation is

- A. bush fallowing.
- B. monoculture.
- C. shifting cultivation.
- D. cover-cropping.

37. Which of the following factors does **not** influence population distribution?

- A. Climate
- B. Relief
- C. Soil
- D. Sex ratio

38. Low population densities of the Middle belt of West African countries can best be explained by

- A. trans-saharan slave trade.
- B. rich fertile soil.
- C. concentration of industries.
- D. presence of mineral resources.

**Turn over**

39. Which of the following towns has the **best** natural harbour in West Africa?  
 A. Port Harcourt  
 B. Takoradi  
 C. Freetown  
 D. Monrovia
40. An effect of rural-urban migration on the source region is  
 A. rural depopulation.  
 B. urban depopulation.  
 C. rural employment.  
 D. rural unemployment.
41. Which of the following **best** describes the characteristics of a rural settlement?  
 A. Primary activities  
 B. Secondary activities  
 C. Tertiary activities  
 D. Large area coverage
42. The **most** significant factor which accounts for the rapid growth in the population of the capital cities of West Africa is  
 A. political rallies.  
 B. sporting events.  
 C. rural-urban migration.  
 D. religious tourism.
43. An example of a fossil fuel is  
 A. granite.  
 B. coal.  
 C. clay.  
 D. sandstone.
44. Which of the following are characteristics of **most** large cities? They  
 I. have large plantations.  
 II. are administrative centres.  
 III. are religious centres.  
 IV. are commercial centres.  
 A. I and III only  
 B. I and IV only  
 C. II and III only  
 D. II and IV only
45. The Industrial Belt of Japan produces  
 A. ships, electronics and motor vehicles.  
 B. warships, ammunitions and building materials.  
 C. fertilizers, pesticides and combined harvesters.  
 D. leather goods, plastics and pharmaceutical products.

ggghhh

46. Cities of high population densities develop on plains because they
- I. act as climatic barriers.
  - II. have fertile soils.
  - III. lack heavy rainfall.
  - IV. have terrain with ease of communication.
- A. I and II only  
B. I and III only  
C. I and IV only  
D. II and IV only
47. A notable problem of air transportation in tropical Africa is
- A. slow speed.
  - B. low freight charges.
  - C. adequate space.
  - D. low patronage.
48. Which of the following is **most** affected by drought and flood?
- A. Ocean transport
  - B. Road transport
  - C. Air transport
  - D. River transport
49. The reason for siting industries in urban areas include:
- I. employment;
  - II. revenue generation;
  - III. religious tolerance;
  - IV. unemployment provision.
- A. I and II only  
B. II and IV only  
C. III and IV only  
D. I and IV only
50. Which of the following factors explain the need for international trade?
- I. Variation in technology
  - II. Uniformity in taste for goods
  - III. Language barrier
  - IV. Differences in natural resources
- A. I and II only  
B. II and III only  
C. II and IV only  
D. I and IV only

**END OF PAPER**

SC2043  
WASSCE 2021  
GEOGRAPHY 3  
Practical & Physical  
Geography  
1 hour 50 minutes

3

Name.....

Index Number.....

THE WEST AFRICAN EXAMINATIONS COUNCIL

West African Senior School Certificate Examination  
for School Candidates

SC 2021

GEOGRAPHY 3  
[70 marks]

1 hour 50 minutes

*Do not open this booklet until you are told to do so. While you are waiting, write your **name** and **index number** in the spaces provided at the top right-hand corner of this booklet and thereafter, read the following instructions carefully.*

*Answer question 1 and any **three** others. Question 1 carries **25** marks while others carry **15** marks each.*



ELEMENTS OF PRACTICAL AND PHYSICAL GEOGRAPHY

Answer question 1 and any **three** others.

Question 1 carries **25** marks while other questions carry **15** marks each.

You are advised to spend **not** more than **35** minutes on Question 1.

1. Study the map extract provided on a scale of 1 : 50,000 and answer the questions that follow.

- (a) On the graph paper provided in your answer booklet, draw an annotated cross profile along the line marked A— B using a vertical scale of 1 cm to 200 ft. [11 marks]
- (b) In your answer booklet, describe **four** characteristics of the road network in the mapped area. [8 marks]
- (c) With evidence from the map, give **three** reasons for which NEW WOROBO is the **major** settlement in the mapped area. [6 marks]

2. The Table X below contains data on the distribution of Groundnut production in four regions of country M in 2013.

Use the data in table X to answer the questions that follow.

Table X

Region	Groundnut Production in Metric tonnes
A	100,000
B	260,000
C	200,000
D	80,000

- (a) Using the map of country M on page 5 and a scale of 1 dot to represent 20,000 metric tonnes, produce dots to represent the data.  
[Detach the **dot map** you have produced on page 5 and attach it to your answer booklet] [12 marks]
- (b) State **three** disadvantages of dot maps. [3 marks]
3. (a) List **three** landforms associated with coastal erosion. [3 marks]
- (b) Explain the following processes of wave erosion: [6 marks]
- (i) hydraulic action; [6 marks]
- (ii) corrasion.
4. Explain how the following factors affect the temperature of a place: [5 marks]
- (a) Altitude; [5 marks]
- (b) Distance from the sea; [5 marks]
- (c) Slope and aspect. [5 marks]

5. (a) What is a *Great Circle*? [2 marks]
- (b) Outline **three** characteristics of a Great Circle. [6 marks]
- (c) If the **time** at longitude  $100^{\circ}$  E was 5 a.m. Monday 11<sup>th</sup> April 2011, what **was** the:
- (i) time at longitude  $10^{\circ}$  W; [3 marks]
  - (ii) day at longitude  $10^{\circ}$  W; [2 marks]
  - (iii) date at longitude  $10^{\circ}$  W? [2 marks]
6. (a) List **three** types of sedimentary rocks classified according to their mode of formation. [3 marks]
- (b) Name the **rocks** that are formed when the following undergo metamorphism:
- (i) granite; [1 mark]
  - (ii) clay; [1 mark]
  - (iii) shale; [1 mark]
  - (iv) limestone. [1 mark]
- (c) Outline **four** differences between *sedimentary* and *metamorphic rocks*. [8 marks]
7. (a) List **three** landforms that are associated with extrusive volcanic action. [3 marks]
- (b) With the aid of a diagram, describe the characteristics and mode of formation of laccolith. [12 marks]
8. (a) Define *environmental balance*. [2 marks]
- (b) With the aid of a diagram, explain water cycle. [7 marks]
- (c) In what **three** ways is water cycle beneficial to man? [6 marks]

# ***BLANK SHEET***

MAP OF COUNTRY M SHOWING GROUNDNUT PRODUCTION IN THE YEAR 2013



***END OF PAPER***