# CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

General Certificate Of Education Examination

0510	BIOL	OGY	1

JUN	E 2020	નાલ √ લ	ORDINARY LEVEL
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		STRUCTIONS TO CAND	IDATES growing of the second
<i>have a</i> 1. 2.	soft HB pencil and an eraser fa USE A SOFT HB PENCIL TH DO NOT OPEN THIS BOOK the examination begins:		D.DO SO.
4.	Fill in the information required		Horganat is its.4
5.	Candidate Name, Exam Sess	ion, Subject Code and Candidat se or fold the answer sheet or make	wer sheet using your HB pencil: e Identification Number. e any marks on it other than those asked for in
6.			s carry equal marks.
7.	Non-programmable Calculator	rs are allowed.	stormevulen an environdes 8 de
8.	number of the question on the brackets for the answer you ha For example, if <b>C</b> is your of	e Answer Sheet and draw a horiz	Decide which answer is appropriate. Find the contal line across the letter to join the square below:
9.	question. If you change your	ch question. If you mark more that	an one answer, you will score a zero for that ne first mark carefully, then mark your new
10.	Avoid spending too much tim question. You can come back	ne on any one question. If you f to this question later.	ind a question difficult, move on to the next
11.	Do all your rough work in this	booklet using the blank spaces in	the question booklet.
12.	At the end of the examination	n, the invigilator shall collect the T TO LEAVE THE EXAMINA	e answer sheet first and then the question
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# SECTION I Questions 1-7 (Seven questions)

Directions: Each of these questions or incomplete statements is followed by four suggested answers. Select the best answer in each case and mark the answer sheet appropriately.

- 1. Movement of water molecules from a region of high concentration of water molecules to a region of low concentration of water molecules is
  - A Absorption
  - B Diffusion
  - C Osmosis
  - D Osmoregulation
- 2. What occurs when the leaves of a plant lose more water than the plant gets from the soil?
  - A Wilting
  - **B** Plasmolysis
  - C Turgidity
  - D Guttation
- 3. Which of the following processes uses up energy?
  - A Active transport
  - B Enzymatic digestion
  - C Osmosis
  - D Ultra-filtration
- 4. The parts of the mammalian heart containing oxygenated blood are the
  - A Right atrium and left atrium
  - B Right atrium and right ventricle
  - C Left atrium and left ventricle
  - D Left ventricle and right ventricle
- 5. The Chloroplast of plant cells
  - A Store food
  - B Absorb light energy for photosynthesis
  - C Maintain shape of plant cells.
  - D Convert sugar into starch
- 6. One method of spread of AIDS (Acquired Immune Deficiency Syndrome) is
  - A Through Screened blood transfusion
  - B Exchange of sterilized surgical equipment (blades, needles)
  - C During pregnancy.
  - D During unprotected sexual intercourse with an infected person.

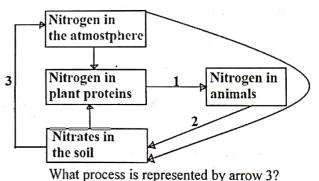
Causes Malaria

- A Mosquito
  - B Plasmodium
  - C Bacteria
  - D Virus

# SECTION II Questions 8-20 (Thirteen questions)

Directions: This group of questions relates to biological diagrams. Select the best answer for each question.

- 8. In the diagram of an amoeba, the contractile vacuole functions in
  - A Reproduction
  - B Food storage
  - C Osmoregulation
  - D Gaseous exchange
- 9. This concerns the nitrogen cycle shown below:



- A Denitrification..
- B Nitrogen fixation.
- C Nitrification.
- D Lightning.

10. Below is a food chain in a garden ecosystem.

Cabbage → Caterpillar → Hen → Hawk

Identify the herbivore in the food chain

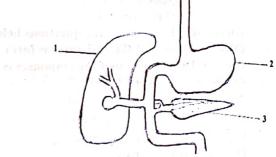
- A Caterpillar.
- B Hen.
- C Hawk.
- D Cabbage.

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11.	Spirogyra is autotrophic because of the presence of
	A Cellwall and being p
	B Pyrenoid
	C Mucilage
io stan tint	D Chloroplast
12.	This structure in the eye has a high
	concentration of light sensitive cells (rods
	and cones)
	A Choroid
	B Sclera
	C Cornea
	D Retina
13.	Transports oxygenated blood from the lungs to
	the heart in the mammalian circulatory system.
	A Pulmonary artery
	B Aorta
tanil	C Pulmonary vein
	D Vena cava
	An endocrine gland in the human body that produces a hormone which increases the rate of heart beat A Thyroid gland B Pancreas C Adrenal gland D Pituitary gland Produces an oily secretion in the skin which
15.	keeps it supple.
	A Subcutaneous layer
	B Sebaceous gland
	C Sweat gland
	D Meissner's corpuscle
16.	Which part of the mammalian brain is responsible for voluntary (conscious) activities
	of the body?
file.	
	B Mid-brain. about the part made
	C Cerebrum.
	D Medulla Oblongata.
17.	Which structure in the brain is responsible for
	balance and posture?
	A Cerebellum.
	B Mid-brain.
	C Medulla oblongata.
	D Hypothalamus.

8. Below is the diagram of part of the human digestive system.



How is structure 3 important in homeostasis? A Carries out deamination.

- A Carries out dealinination
- B Carries out detoxification.
- C Breaks down red blood cells.
  - D Production of insulin.

19. Which structure in the male reproductive system produces sperms?

- A Testes
- B Epididymis

antine.

- C Prostate gland
- D Penis

20. Why does the left ventricle of the mammalian

- heart have thicker walls?
  - A It holds more blood.
- B It pumps blood over a long distance.
- C It carries blood loaded with food and
  - Oxygen.
- D It carries blood under low pressure.

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	SECTION III Questions 21-25 (Five questions) Directions: For each of the questions below, ONE or MORE of the responses is (are) correct. Decide which of the responses is (are) correct. Then choose: A If 1, 2 and 3 are all correct.			SEC Questi (Five Q Directions: Eac consists of a sta column followed the right-hand of
	<ul> <li>B If 1 and 2 only are correct.</li> <li>C If 2 and 3 only are correct.</li> <li>D If 1 only is correct.</li> </ul>			Directions First statement
21.	Unicellular organisms lack a transport system because 1. They have a large surface area to volume		A	True
malera .	<ul> <li>2 Substances diffuse over short distances in them.</li> <li>3 Their body makes intimate contact with their surroundings.</li> </ul>	-11-042 - 11-042	В	and True
22.	Mature Red Blood Cells	ste	C D	True False
	<ul> <li>2 Lack nucleus</li> <li>3 Lack haemoglobing strength of W 10</li> </ul>	961 T	-	First statemen
23.	During inspiration, 1 The diaphragm muscle contracts.		26.	Gametes are ge produced by mi
ेलाह	<ul> <li>2 The pressure in the lungs decreases.</li> <li>3 The rib cage moves upwards and outwards.</li> </ul>	<u>.</u>   215	27.	The image of an formed on the r inverted.
24.	During overheating, 1 Superficial blood vessels constrict.		28.	In Phototropisn stimulus is grav
	2 More sweat is produced		29.	Short sightedne

- 2 More sweat is produced.
- 3 Erector pilli muscle relaxes.

# 25. To focus on near objects

- 1 The ciliary muscle contracts.
- 22 The suspensory ligament slackens:
- 3 The lens becomes thicker.

# SECTION IV Questions 26-30 (Five Questions)

# Directions: Each of the following questions consists of a statement in the left-hand column followed by a second statement in the right-hand column.

	Directions			
		First statement	Second statement	
	A^	True	True	2 <sup>nd</sup> statement is a correct explanation of the first.
7.40 6125	<b>B</b>		True Summun structure Auromation	2 <sup>nd</sup> statement is NOT a correct explanation of the first.
	C	True	False	.c
-	D	False	True	1

	First statement	Second statement
26	Gametes are generally produced by mitosis	Body cells are produced by mitosis.
27	The image of an object formed on the retina is inverted.	Light sensitive cells are found on the retina.
28	stimulus is gravity	Shoots are positively phototropic
29 Iiv	Short sightedness occurs when an individual can only see objects clearly when they are close to the eye.	Short sightedness is corrected using concave or diverging lens
30	The bicuspid and tricuspid valves close when the ventricles contract.	Valves close to prevent backflow of blood.

Whethermuch on the brain is responsible for

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### SECTION V

### Questions 31-40 (Ten questions) Directions: Each question consists of four lettered headings A, B, C, D. Select the heading which is closely related to the description which follows. at called treated the upper

31

#### Starch and water A

- В Glucose and oxygen
- C Water and oxygen
- carbon dioxide and glucose D
- The immediate end-products of photosynthesis.

### 32.

- A Parasitic nutrition
- В Holozoic nutrition.
- С Saprophytic nutrition.
- D Holophytic nutrition.
- Involves extracellular digestion.

### 33.

- Biological control 1
- Chemical control B
- С Vector control.
- D Population control
- The Elimination of harmful organisms using other living organisms.

### 34.

- A Carbon monoxide
- Sulphur dioxide B
- Carbon dioxide , taken il $\mathbb{C}$ 
  - Nitrogen dioxide D
  - Its large proportion in the atmosphere causes greenhouse effect.
- 35.
- Community A Ecosystem
- B Population C
- Fren diatuh. Species D
- All the living organisms in a locality.
- 36.
- Rep A Photosynthesis
- Thom: Bile Digestion of the bard term cost of F 204
  - CO Decay was privated on the deal W
  - Deamination D
  - Adds carbon dioxide into the atmosphere.
- 37.
- Grou th stopped A
- Erosion (), 1. dtworg (a.c.) : (] B Leaching
- Drainage C
- Eutrophication 1 D
- The washing down of nutrients from top soil to
- sub soil.
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A Lettuce  $\rightarrow$  grasshopper  $\rightarrow$  hawk $\rightarrow$ chicken. Lettuce→ hawk→ chicken B  $\rightarrow$ grasshopper. Lettuce  $\rightarrow$  grasshopper  $\rightarrow$  chicken  $\rightarrow$ C hawk. Lettuce  $\rightarrow$  chicken $\rightarrow$  hawk D →grasshopper. Represents the correct flow of energy in a locality. Starch solution A В Egg white Bean extract С Glucose solution D Will produce a brick red precipitate when tested with Benedict's solution. रत हो तातृत्व क्रुपि क्लावर क्रुपि के ल

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Presence of pyrenoids

Presence of cell wall

The reason why spirogyra is autotrophic.

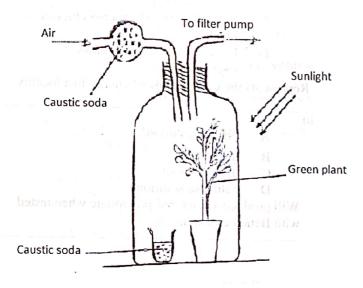
Presence of starch

C Presence of chlorophyll

# SECTION VI **Questions 41-50** (Ten questions)

Directions: This group of questions deals with biological situations. Each situation is followed by a set of questions. Select the best answer for each question.

41. The set up below was used as a control experiment to show that carbon dioxide is necessary for photosynthesis.



The caustic soda in the setup is to

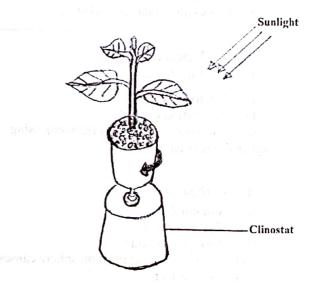
- Α Produce carbon dioxide
- В Absorb carbon dioxide
- С Produce oxygen
- D Absorb oxygen
- 42. Fish suffocate out of water. This is due to Α More carbon dioxide on land.
  - В Less oxygen on land than in water.
  - С High temperatures on land.
  - D Gills not absorbing oxygen from air.
- 43. In testing a leaf for the presence of starch, the leaf is boiled in alcohol for 5 minutes to
  - A٠ Burst starch grains.
  - B Soften the leaf.
  - C Remove chlorophyll.
  - D · Harden the leaf.

- In setting up a potometer, it is important to cut 44. and mount the leafy shoot under water so as to
  - Prevent the entry of air bubbles into the Α xylem.
    - Prevent water flowing backwards in the В shoot.
    - С Ensure sufficient supply of water to the shoot.
    - D Prevent wilting of the shoot.
- 45. What is the probability that a couple with genotypes BO and AB will have a child of blood group B? ٨ 1/4

A	1/4
В	3/4
C	0

D 1/2

46.



The bean seedling placed on a rotating clinostat in the diagram grows straight upwards because of

- A High concentration of auxin on the illuminated side.
- В Even distribution of auxin.
- C High concentration of auxin on darker
- side.
- D High light intensity.
- 47. The terminal bud of a tomato plant was cut off. Which of the following would have been observed?
  - Antere Wilting of the plant
    - В Transpiration stopped
    - С Growth stopped
    - D Fast growth of axillary buds

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- 48. Plants always occur at the first trophic level in food chains. This is because
  - A Plants were the first organisms on earth.
  - B Plants are found all over the world.
  - C Plants convert solar energy into chemical energy.
  - D Plants are saprophytic.

- 49. Lime water turns milky when exhaled air is bubbled through it. This indicates that exhaled air
  - A Contains oxygen.
  - B Contains carbon monoxide.
  - C Contains nitrogen oxide.
  - D Contains carbon dioxide.
- 50. Exposed palm wine loses its sweetness after several hours. This is due to
  - A Anaerobic respiration by yeast.
  - B Conversion of sugar to starch.
  - C Evaporation of the wine.
  - D Anaerobic respiration by bacteria.

### STOP

### GO BACK AND CHECK YOUR WORK

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