# CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD General Certificate of Education Examination

# 0565 HUMAN BIOLOGY 1

JUNE 2020	<b>Edukamer</b> ORDINARY LEVEL			
Centre Number				
Centre Name				
Candidate Identification No.	<b>*</b> Edukamer			
Candidate Name				

# Mobile phones are NOT allowed in the examination room.

# MULTIPLE CHOICE QUESTION PAPER

## One and a half hours

# **INSTRUCTIONS TO CANDIDATES**

Read the following instructions carefully before you start answering the questions in this paper. Make sure you have a soft HB pencil and an eraser for this examination.

1. USE A SOFT HB PENCIL THROUGHOUT THE EXAMINATION.

2. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

#### Before the examination begins:

- 3. Check that this question booklet is headed "Ordinary Level 0565 Human Biology 1"
- 4. Fill in the information required in the spaces above.
- 5. Fill in the information required in the spaces provided on the answer sheet using your HB pencil: Candidate Name, Exam Session, Subject Code and Candidate Identification Number. Take care that you do not crease or fold the answer sheet or make any marks on it other than those asked for in these instructions.

#### How to answer the questions in this examination

- 6. Answer ALL the 50 questions in this Examination. All questions carry equal marks.
- 7. Each question has FOUR suggested answers: **A**, **B**, **C** and **D**. Decide which answer is appropriate. Find the number of the question on the Answer Sheet and draw a horizontal line across the letter to join the square brackets for the answer you have chosen.

For example, if C is your correct answer, mark C as shown below:

## (A) (B) <del>(C)</del> (D)

- 8. Mark only one answer for each question. If you mark more than one answer, you will score a zero for that question. If you change your mind about an answer, erase the first mark carefully, then mark your new answer.
- 9. Avoid spending too much time on any one question. If you find a question difficult, move on to the next question. You can come back to that question later.
- 10. Do all rough work in this booklet using the blank spaces in the question booklet.
- 11. At the end of the examination, the invigilator shall collect the answer sheet first and then the question booklet. DO NOT ATTEMPT TO LEAVE THE EXAMINATION HALL WITH IT.

Turn Over

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- 1. Select the right pair of statement :
  - A Man has a large developed forebrain... ...This enables man to live well in the society.
  - B Man is bipedal....This enables him to have a stable movement
  - C Man has hands with opposable

thumbs...This enables him to grip objects

- D Man's head is straight...This enables
- him to walk uprightly
- 2. Which statement best defines a cell?
  - A Basic functional unit of an organism that can exist on its own
  - B Basic unit of an organism that can exist on its own
  - C Basic structural unit of an organism that can exist on its own
  - D Basic structural and functional unit of an organism that can exist on its own
- 3. How are the simple columnar epithelial cells modified to carry out their functions in the small intestines?
  - A The cells are elongated in shape
  - B The cells are column shaped and tightly fitted
  - C The free borders of the cells have microvilli
  - D The free borders of the cells have cilia

4. In which part of the human body does meiosis take place?

- A The gonads
- B The bladder
- C The sensory organ
- D The kidney

5. Two small pieces of bones were used to run an experiment.One was placed in dilute HCL and the other in water for same period of time,then removed.What could be the result?

- A The two-bones were hard
- B The bone in HCL was soft and flexible
- C The bone in water was a little bit soft
- D The bone in HCL was a bit hard

- Study the statements and select the best answer: A Skeletal muscles contract and relax fairly
  - slowly B Smooth muscles contract voluntarily
  - C Cardiac muscles are myogenic
  - D Smooth muscles move bones at joints
- 7. What type of joint is located at the elbow?
  - A Ball and socket joint
    - B Hinge joint
  - C Gliding joint
  - D Saddle joint
- 8. Select the characteristics of a reflex action;
  - A It is involuntary and learned
  - B It is voluntary and innate
  - C It is innate and rapid
  - D It is rapid and learned
- 9. The diagram below is the vertical section through the eye;



(Courtesy Bryon Dawson(Revised GCSE biology)

Identify the part that is concerned with colour vision

- A I
- B II
- C III
- D IV
- 10 Select the correct pair of ions which play a role in the transmission of impulse along the axon:
  - A Potassium and magnesium ions
  - B Sodium and calcium ions
  - C Sodium and potassium ions
  - D Magnesium and sodium ions

6.

11. The flow diagram below is that of the control of blood sugar level. Study it and answer the question that follows:



(Courtesy Givens and Reiss Human biology and health studies)

Which activity is taking place at the corrective mechanism Y

- A Liver converts glycogen to glucose
- B Liver converts glycogen to maltose
- C Insulin converts glucose to glycogen
- D Insulin accelerates conversion of glucose to glycogen
- 12. The hormone whose release into blood causes an increase in heart beat is;
  - A Glucagon
  - B Insulin
  - C Adrenaline
  - D Aldosterone
- 13. Select the vitamin that prevents night blindness:
  - A Vitamin B
  - B Vitamin D
  - C Vitamin A
  - D Vitamin C
- 14. Which of the following activities will be affected if the bile duct is blocked ?
  - A Protein digestion
  - B Fat digestion
  - C Secretion of pancreatic juice
  - D Secretion of secretin
- 15. Benedict's reagent is used to test for:
  - A Starch
  - B Reducing sugar
  - C Proteins
  - D Lipids
- 16. Select the mineral whose deficiency in the diet will result to goitre:
  - A Calcium
  - B Magnesium
  - C Iodine
  - D Iron

# 17. Identify the component of the gastric juice that is bactericidal:

- A Mucus
- B Pepsin
- C Rennin
- D Hydrochloric acid
- 18. The maximum volume of air forced out after the deepest inspiration is called...
  - A Vital capacity
  - B Expiratory reserve volume
  - C Inspiratory reserve volume
  - D Residual volume
- 19. What activity brings about the expansion of the thorax during inspiration?
  - A Relaxation of the diaphragm
  - B Relaxation of the intercostal muscles
  - C Contraction of the diaphragm
  - D Movement of ribs upwards and inwards
- 20. Study this table and select a difference between arteries and veins:

Arteries		Veins		
Α	Has valves	No valves		
В	Large lumen	Small lumen Thick elastic fibres		
С	Thin elastic fibres			
D	Thick muscular	Thin muscular		
	wall	wall		

- 21 Why is high blood pressure the main factor that causes heart attack?
  - A It increases the risk of fatty deposits in the arteries
  - B It causes less force to be exerted on the cardiac muscles
  - C It causes the heart to work beyond normal
  - D It increases the risk of high blood sugar level
- 22. What will be the response of the skin during a vigorous activity?
  - A Arterioles beneath the epidermis constrict
    - B Rate of sweating reduces
    - C Much heat loss by radiation
    - D Sweat pores are closed
- 23. Identify the part of the nephron where there is the highest reabsorption of salts:
  - A Glomerulus
  - B Distal convolute tubule
  - C Loop of Henle
  - D Proximal convoluted tubule

Which of these birth control methods will Laboratory analysis revealed the presence of 31. 24. prevent implantation glucose in the urine of an individual. What could Intra-uterine device Á be the disease he is suffering from? Contraceptive pills В High blood pressure A **Tubal** ligation С Diabetes В Implants D Hepatitis C Cirrhosis D During which condition is the doctor 32. authorized to carry out an abortion What type of immunity is acquired after 25. When the mother's health cannot exposure to a particular pathogen? A withstand the pregnancy Natural passive immunity A When the mother does not want the Natural active immunity . B B Artificial active immunity pregnancy C When the baby is lying upside down Artificial passive immunity D C in the uterus In the blood clotting mechanism fibrinogen 26. When the mother does not have  $\mathbb{D}$ changes to fibrin in the presence of: enough financial means Prothrombin and calcium ions A В Thrombin and calcium ions Study the diagram of the female reproductive 33. С Thrombokinase and potassium ions system below : Thrombin and potassium ions D Identify the correct site and corresponding 27. 1Vfunction of mucous membrane: In the gut....Secretes mucus that coats Α food and prevents friction 111 In the vagina...Secretes mucus that В prevents friction In the nostrils...Secretes mucus that waft С away dust and pathogens In the mouth...Secretes mucus that traps D pathogens Why are vaccines made of killed or attenuated 28 pathogens To prevent virulence of the pathogen A To prevent patients contracting the disease B To prevent allergic reactions from patients С (Courtesy D G Mackeans Introduction to To prevent resistance from patience D human and social biology) Identify the part where the egg develops Which part of the female reproductive system 29. during an ectopic pregnancy produces oestrogen? A clitoris A i В Oviduct В ii С Ovary С iii D Uterus D - iv 30. What is the hormone that induces labour in a pregnant mother 34. Identify the part of the male reproductive prolactin system that produces the sperm cells: A В Oxytocin Sperm duct A С Oestrogen В Epididymis D Progesterone С Seminiferous tubule D Vas deferens

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	<ul> <li>Incomplete contract set of the last of th</li></ul>					
35.			42. What is the advantage of the biological filter			
	inheritance of the A B O blood groups:			hod over the activated sludge method in		
	A Dominance			treatment of sewage?		
	B Incomplete dominance		A	It is faster		
	C Codominance		B	It is less tedious		
	D Partial dominance		С	It produces more useful products		
			D	It is cheaper		
36.	The gene for albinism is recessive to the gene for skin colour. What are the possible genotypes	43.	Divin	that process does water vapour from the		
	of children born to a couple who are both	43.	atmosphere become cloud			
	heterozygous for the condition?		A	Condensation		
	A AA Aa, aa		B	Evaporation		
•• .	B AA, Aa, Aa		C	Precipitation		
	C AA, AA, Aa		D	Guttation		
			D	Guitation		
	D AA, aa, aa	44.	The	water pollutant that causes algal bloom is:		
37.	Why is it rare to see characters of mutated genes	44.	A	Raw sewage		
57.	in the society?		B	Sulphur dioxide		
	A Because most mutant genes are recessive		C	Acid rain		
	B Because mutant genes are masked in the		D	Radioactive contaminants		
	population		D	Radioaetive containmants		
	C Because mutation is a common occurrence	45.	One	way to take care of the ear is by:		
	D Because mutation may result to new		A	Using clean cotton buds to remove		
	resistant species			wax from the ear		
	resistant species		В	Staying away from high sounds		
38.	Why is the leaf dipped in alcohol to test for the		Č	Take adequate rest		
50.	presence of starch?		D	Wash ears regularly to keep it clean		
	A To kill the enzymes present		D	Wash cars regularly to heep to crown		
	B To destroy any pathogen present	46.	Tow	hich health unit would you take an		
	C To remove the chlorophyll		individual who has just been involved in a car			
	D To soften the leaf		accio			
	D TO solicil the leaf		A	Emergency unit		
20	Will the strange of the second from		В	Surgical unit		
39.	What percentage of energy is transferred from		Ĉ	Out-patient unit		
	one level to the next level in a food chain?		Ď	In-patient unit		
	A 5%					
	B 10%	47.	What	is the biological significance of storing		
	C 12%			in a cold place?		
	D 15%		A	To prevent germination		
			B	To prevent vermins		
40.	What is the best first aid treatment you would		C	To prevent growth of microbes		
	give to an individual with minor burns?		D	To prevent loss of taste		
	A Pour abundant salt on affected area		D	To prevent loss of taste		
	B Flood affected area with cold water	48.	Selec	t a role of a public health inspector:		
	C Cover affected area with clean cloth	40.	A	Punishes vendors with dirty business		
	D Call for the ambulance immedately			premises		
41.	How would you prevent the walls of the house		В	Ensures that construction meets hygiene		
	from being overheated by direct sun rays?		-	standards		
	A Air vents in the ceiling		С	Destroys houses that are haphazardly		
	B Ventilation bricks in the walls		_	constructed		
	C Extended eaves round the house		D	Educate vet doctors on meat inspection		
	D Roof gutters round the house					

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- 49. The process of converting nitrate to nitrogen gas found in the atmosphere.
  - Anitrogen fixcition Beutrophication A
  - В
  - С Ammonification
  - D Denitrification

- 50. Select the disease that can be spread through exchange of towels.
  - AIDS Α
  - В Ringworm
  - Dysentery С
  - D Cholera

STOP

# GO BACK AND CHECK YOUR WORK



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