

B

BIOLOGY - ENGLISH

TOTAL TIME: 2HRS

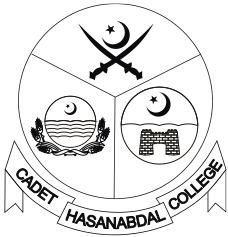
MAX MARKS: 50+50

CADET COLLEGE HASANABDAL

Entry Test Class 1st Year

READ THESE INSTRUCTIONS FIRST

Write your ROLL NO, Name, Fathers Name in the spaces provided only.
DO NOT WRITE YOUR PARTICULARS ANYWHERE ELSE IN THIS BOOKLET.
Write in dark blue or black ink.
Do not use staples, paper clips, highlighters, or glue. Answer **all** questions.
Write your answers in the spaces provided on the Question Paper.
The number of marks is given in brackets [] at the end of each question or part question.
Do not right in any of shapes given below. These are for Examiner's use.



BIOLOGY - ENGLISH

Entry Test Class 1st Year

Roll No.

For Examiners Use only		
Q.No.	Biology	English
1.		
2.		
3.		
4.		
5.		
TOTAL		

Name: _____

Father's Name: _____

Date: _____

DO NOT WRITE ON THIS PAGE

SAMPLE

BIOLOGY**Q-1. MCQs. Circle the Correct option.****[10]**

(i). When a transport protein moves a substance from higher to lower concentration, the process is called:

- (a) Osmosis (b) Diffusion
(c) Guard cells (d) Facilitated diffusion

(ii). Which are at the borderline of living and nonliving?

- (a) Amoeba (b) Paramecium (c) Viruses (d) Volvox

(iii). Enzymes are used produce alcohol by the process of:

- (a) Fermentation (b) Decomposition
(c) Degradation (d) Pasteurization

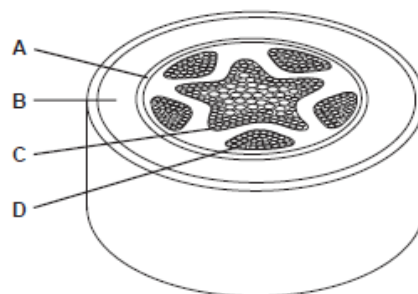
(iv). After a meal, the concretion of blood glucose increases.
Which organ removes this blood glucose and converts it into a storage compound?

- (a) Rectum (b) Liver (c) Kidney (d) Pancreas

(v.) Chemicals in tobacco smoke lead to the breakdown of the elastic tissue in the walls of the alveoli.
What is the name of this condition?

- (a) Bronchitis (b) emphysema (c) heart disease (d) lung cancer

(vi). The diagram shows a cross-section of a root.
Which tissue transports water to the leaves?



(vii). When blood leaves the heart, where does it exit?

- (a) the aorta (b) the capillaries
(c) the lungs (d) the pulmonary vein

(viii). Which group of enzymes breaks up starches & other carbohydrates?

- (a) Lipases (b) Amylases (c) Proteases (d) Pepsinogens

(ix). Which of the following generates the formation of adaptations?

- (a) Genetic drift (b) Mutations
(c) Sexual reproduction (d) Natural selection

(x). Mature xylem tissue is characterized by

- (a) companion cells (b) dead cells
(c) plasmodesmata (d) sieve-tube members

Q-2. Give short answers to the following questions.

[10x2=20]

i. How are taxonomy & systematics related?

ii. Differentiate between aerobic & an-aerobic respiration.

iii. Differentiate between stomata and lenticels.

iv. What is myopia & hypermetropia?

v. What are single cell proteins? Give their significance.

vi. What are plasmids? What is the importance of plasmids for the recombinant DNA technology?

vii. What are the two types of fermentation? What are their chemical equations?

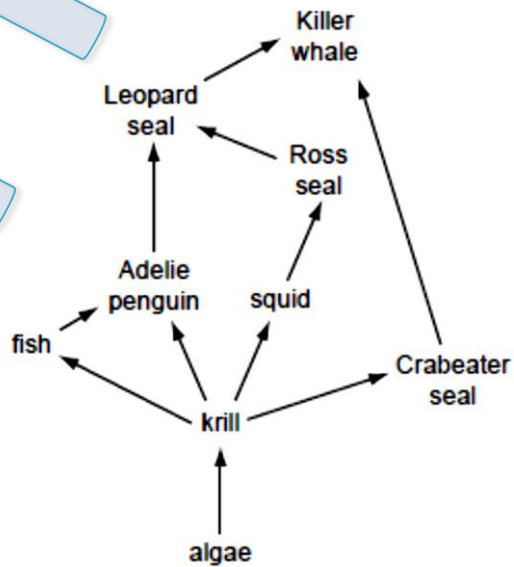
viii. Which is the type of muscle tissue that moves the bones? Write its function briefly.

ix. What is a closed circulatory system?

x. What is hemodialysis?

Q-3. Fig. 3.1 shows part of a food web for the South Atlantic Ocean.

Fig. 3.1



(a) (i) Name the top carnivore in this food web.

[1]

(ii) Name a member of this food web that is both a secondary and a tertiary Consumer.

[1]

(iii). Define the term Food Web.

----- [1]

(b). Use the information from the food web to complete the food chain of five organisms.

Algae → ----- → ----- → ----- → ----- [2]

(c). In the future the extraction of mineral resources in the Antarctic might occur on a large scale. This could destroy the breeding grounds of the Ross seal.

(i) State and explain what effects this might have on the population of Leopard seal.

----- [2]

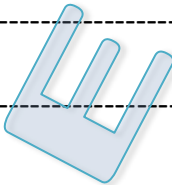
(ii) State and explain what effects this might have on the population of fish.

----- [3]

[Total: 10]

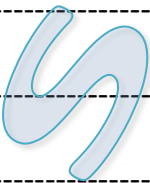
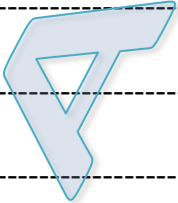
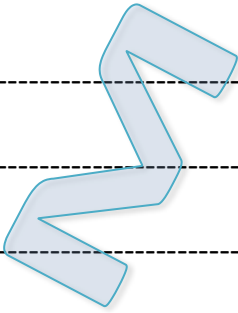
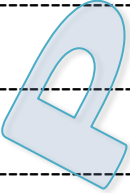

Q-4. a. Define gametogenesis.

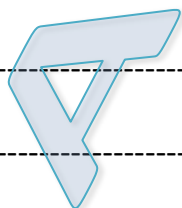
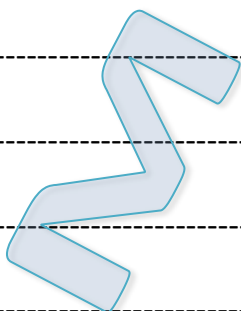
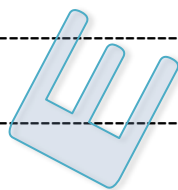
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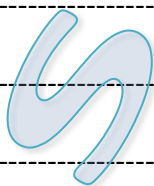
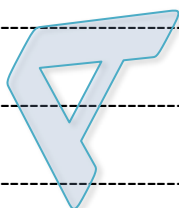
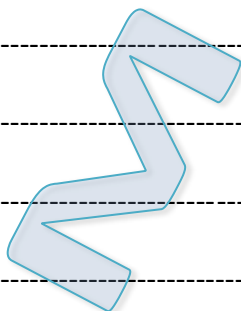
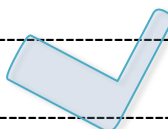
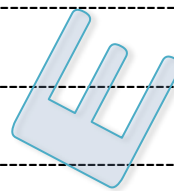


b. Describe the structure and functions of different parts of human brain.

[8]







Q-2. Do as directed

[05]

a. They said, "We have never played hockey".

(Make indirect)

b. Please sit.

(Make passive)

c. I am coming after ten minutes.

(Correct it)

d. One should not waste his time.

(Correct it)

e. His father is good _____ Mathematics.

(Insert Preposition)

Q-4. Read the following passage and answer the questions given in the end. [10]

In May, Das became the face of the Dark in Beautiful campaign, launched in 2009 by activist group Women of Worth to celebrate "Beauty beyond colour". Her backing has helped to generate increasing debate in the media, but the response has underlined just how ingrained the preference is for fairer skin, which has long been associated with higher social classes and castes. "I started getting tones of e-mails from young women pouring their heart out about how they were discriminated against. Some wanted to commit suicide because they couldn't be fair", she said. Amid such pressure to be pale, India's whitening cream market swelled from \$397 million in 2008 to \$638 million over four years, according to market researchers at Euro-monitor International. Das believes that whitening cream developers did not create Indians' colour bias insecurities, but have "cashed in" on it, creating a "vicious circle".

Questions

1. Why is fairer skin associated to higher social classes and castes?

2. What other word can be used for "Swelled" in 7th line of the paragraph.

3. What were the feelings of those women who were discriminated on the basis of their colour?

4. Use the expression in meaningful sentences of your own.

(i) Cashed in -----

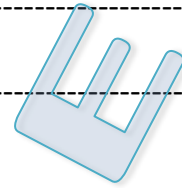
(ii) Vicious circle -----

5. Keeping in view the paragraph do you see the same craze for fairer skin in Pakistan? Comment, with at least one example, in three lines.

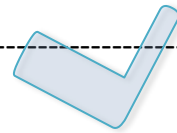
Q-5. Use the following words and expression in sentences of your own.

[10]

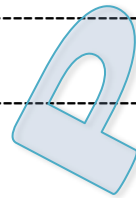
i). To keep one's fingers crossed



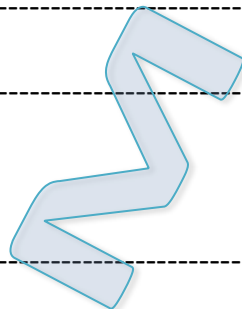
ii). Not only___but also



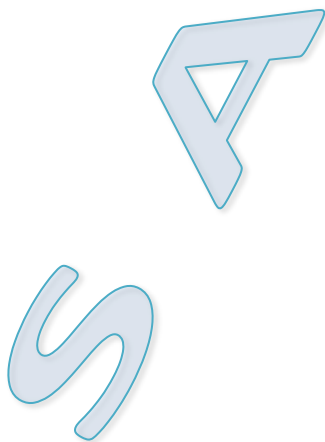
iii). Outrageously



iv). Tremendously



v). To see eye to eye



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SAMPLE