



Al Sharq Bright International School  
Model Paper for Mid Term Exam 2017-2018

Name: \_\_\_\_\_ Subject: Biology Class: 10\_\_ Date: \_\_\_\_\_

**Paper – 1**

**A. Multiple choice questions:**

1. Four of the classes of vertebrates and five possible descriptions of these classes are shown below. Choose the correct option which matches each class of vertebrate to its description.

1	Bird	a	Body with naked skin, two pairs of limbs
2	Fish	b	Body with hair, two pairs of limbs
3	Mammals	c	Body with feathers, one pair of wings
4	Reptile	d	Body with scales, with fins
		e	Body with scaly skin, two pairs of limbs or no limbs

- a) 1-e, 2-b, 3-a, 4-d  
b) 1-c, 2-d, 3-b, 4-e  
c) 1-a, 2-c, 3-d, 4-b  
d) 1-b, 2-a, 3-c, 4-d

2. A \_\_\_\_\_ is a group of organisms that can reproduce to produce fertile offspring.  
a) species      b) population      c) kingdom      d) family
3. Catalase breakdown \_\_\_\_\_ molecules of hydrogen peroxide every second.  
a) 10,000      b) 20,000      c) 30,000      d) 40,000
4. A chromosome is a thread of  
a) DNA      b) ATP      c) Glucose      d) none of the above
5. A diploid nucleus is a nucleus containing \_\_\_\_\_ set/sets of chromosomes present.  
a) one      b) two      c) three      d) four

**Paper – 3**

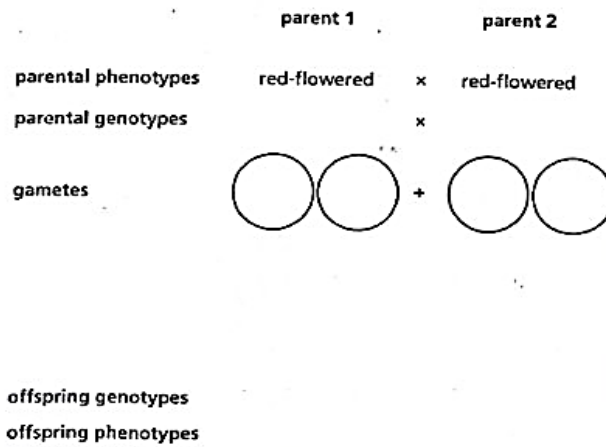
**B. Answer the following questions:**

1. Distinguish between vertebrates and invertebrates?
2. All organisms depend on enzymes. Define the term enzyme and describe the function of enzymes in living organisms.
3. Explain how the fungus obtain its food.
4. Explain the importance of enzymes in industry.
5. Describe an investigation to show the effect of pH on the activity of the enzyme that is used to extract apple juice.

**Paper – 6**

**C. Alternative to Practical:**

1. Complete the genetic diagram to explain how two red-flowered plants identical to plant B could produce both red-flowered and white-flowered plants. Use the symbol R to represent the dominant allele and r to represent the recessive allele.



2. The diagram below shows a young deer feeding from its mother.



State two features, visible in the diagram that distinguishes mammals from other vertebrates.

**Note: This is just a model, not the exam paper.**