



Time allowed: 2:45 Hours

Total Marks Sections B and C: 53

NOTE: Answer any eleven parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

**SECTION – B (Marks 33)**

Q. 2 Attempt any ELEVEN parts. All parts carry equal marks.

(11 x 3 = 33)

- (i) What is limiting factor? Describe light intensity as limiting factor in photosynthesis.
- (ii) What are biophysics, biochemistry and biogeography?
- (iii) How did A.F.A King observe that mosquito is involved in the spread of malaria?
- (iv) What is pericardial fluid? Describe its function.
- (v) Describe carbohydrates as a major component of food.
- (vi) Describe aims of classification.
- (vii) Draw labelled diagram of mitochondrion.
- (viii) Differentiate between prokaryotic and eukaryotic cell.
- (ix) Describe two diseases caused by protein energy malnutrition (PEM).
- (x) How do enzymes reduce activation energy?
- (xi) Describe effect of substrate concentration on the rate of enzyme action with the help of suitable graph.
- (xii) Write down names of two macronutrients and describe their role and deficiency symptoms in plants.
- (xiii) What would happened if pancreatic juice did not reach to your small intestine?
- (xiv) Differentiate between following:  
a. Systole and Diastole  
b. Tricuspid and Bicuspid valves
- (xv) How do guard cells control opening and closing of stomata? Describe it by starch sugar hypothesis.

**SECTION – C (Marks 20)**

Note: Attempt any TWO questions. All questions carry equal marks.

(2 x 10= 20)

- Q. 3 a. Discuss translocation of food in plants with the help of diagram.  
b. Describe structure and function of nucleus with the help of labelled diagram.
- Q. 4 What is Karyokinesis? Discuss phases of Karyokinesis of mitosis with the help of labelled diagram.
- Q. 5 a. Discuss main phases of aerobic respiration.  
b. What is Binomial nomenclature? Describe its rules and importance.

# June 2014 Ocr Biology Past Paper F215

**Yan Bai**



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web more importantly these equations show the two special forms of these types of functions form equation uses standard form  $y = ax^2 + bx + c$  simplified form vertex form  $y = a(x - h)^2 + k$  transformations of parent function sketch graphs determine equation from a graph transformation effects when a quadratic function is given in the

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web the parent function of the quadratic family is  $f(x) = x^2$  a transformation of the graph of the parent function is represented by the function  $g(x) = a(x - h)^2 + k$  where  $a \neq 0$  identifying graphs of quadratic functions 6.6.4.4 communicate your answer 4.2 how do the constants  $a$ ,  $h$  and  $k$  affect the graph of the quadratic function  $g(x) = a(x - h)^2 + k$

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