1) Translocation of food takes place from source to _____ (1996)
2) Porphyrin ring of chlorophyll molecule contains _____ at its center (1996)
3) Where does photolysis of water occur? (1998 & 2004)
4) Name the electron acceptor in photosynthesis. (1998)
5) Name the site of the dark reaction of photosynthesis. (1997)
6) Name the best-known contribution of Roy Emerson. (1999)
7) Name the scientist who reported the existence of two photosystems. (2001)
8) Write a simple experiment to demonstrate that light is necessary for photosynthesis. (1994)
9) Describe a simple experiment to demonstrate that CO_2 is essential for photosynthesis. (1996, 1999)
10) Describe the flow of electrons in non-cyclic photophosphorylation and compare it with that of cyclic photophosphorylation. (2002)
11) The overall rate of photosynthesis is higher per unit of energy received in flashes than continuously. Justify the statement. 3M(2003)
12) Why is photosynthetic rate higher in C4 plants than in C3 plants? (1998 & 2003)
    Name and describe the artificial method of propagation employed by gardeners for the following
    1. Lemon 2. Litchi 3. Jasmine 4. China rose 4M(2003)
13) Give schematic representation of non-cyclic photophosphorylation. . 4M(2002)
14) Write note on
    a. Compensation point (1996, 98, 2000 & 2003)
    b. Blackman's principle of limiting factors. (1996 & 2000)
    c. Photorespiration (2001)
    d. Red drop (1997)
15) Differentiate between
    a. Photorespiration and Respiration (1995)
    b. C_3 and C_4 plants (1995)
    c. Action spectrum and absorption spectrum (1998)
    d. Cyclic and non-cyclic potophosphorylation. (1997, 98,09)
16) Describe briefly the effect of light intensity, CO2 conc., mineral elements and temperature on the rate of photosynthesis. (1994, 95 & 99)
17) Enlist the steps involved in C4 pathway of CO2 fixation. Explain how C4 plants overcome the photorespiratory losses by this mechanism. (1996, 98 & 2004)
18) Discuss the major events in the Calvin cycle. (1995 & 98)
19) Describe the mass flow hypothesis for translocation of organic solutes in plants. What is the major criticism against this hypothesis? 4 M(1995, 97, 99 & 2002,2005)
20) Draw a labelled diagram showing the fine structure of a chloroplast. Give a simple equation for the overall process of photosynthesis. (1996, & 98)
21) Give a schematic representation of light reaction in photosynthesis involving two photosystems. (1996, 2005)
22) How do light intensity and temperature affect the rate of photosynthesis? Mention two compatible differences between PS I and PS II. (1997)
23) The overall rate of photosynthesis is higher per unit of light energy received in flashes than continuously. Justify the statement. (1997 & 2003)
24) Give a graphic out line of the biosynthetic phase of photosynthesis. 4M (2001, 06)
25) Give a schematic representation of C4 pathway. 4M (2004)

26) Explain kranz anatomy. 2M (2004)
27) Draw a labeled diagram of chloroplast as seen under an electron microscope. Name the three major photosynthetic pigments. 4M (2005)
28) Write the differences between C3 and C4 cycles. 4M (2007)
29) Give a schematic representation of the Hatch Slack (C4) cycle. 4M (2008)
30) Mention the site of formation of glyoxylate from glycolate in photorespiration. (2009)
31) Give difference between cyclic and non cyclic photophosphorylation. 4M(2009)
32) State and explain Blackman's Law of Limiting factors. 3M (2010)
33) List 3 differences between macronutrients and micronutrients. 3M (2010)
34) Explain the mass flow hypothesis of transport of food. 3M (2011)
35) Differentiate between cyclic and non-cyclic photophosphorylation. 3M (2011)
36) Write 3 differences between C3 and C4 cycles. 3M (2012)