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UNIVERSITY OF JAFFNA
Medical Branch
FACULTY OF MEDICINE

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
THIRD YEAR SECOND SEMESTER EXAMINATION – January 2013
PHARMACOGNOSY II -PHACG3202

Paper II

Date: 20.02.2013

Time: 02 Hours

ANSWER ALL EIGHT QUESTIONS

1.
 - 1.1. Explain the term “point mutation”. (45 Marks)
 - 1.2. How would you apply Agrobacterium for plant transformation (35 Marks)
 - 1.3. List the gene transfer methods. (20 Marks)

2.
 - 2.1. What you understand by “Hybrid Vigor”. (20 Marks)
 - 2.2. Describe the Hybridization technique. (40 Marks)
 - 2.3. Name the 2 main types of hybrid seeds. (10 Marks)
 - 2.4. Compare and contrast the hybrid seeds mentioned in 2.3. (30 Marks)

3.
 - 3.1. Classify Nutraceuticals with examples. (50 Marks)
 - 3.2. Explain why nutraceuticals are preferred as a health promoters. (50 Marks)

4. Explain the application of transgenic technique in the development of
 - 4.1. herbicide resistant plants. (25 Marks)
 - 4.2. insect resistant plants. (20 Marks)
 - 4.3. viral resistant plants. (30 Marks)
 - 4.4. fungal resistant plants. (25 Marks)

5.
 - 5.1. List the problems encountered in the evaluation of herbal drugs. (30 marks)
 - 5.2. Briefly explain the different types of adulterations in herbal drugs with examples. (70 marks)

6.
 - 6.1. Describe how moisture content of herbal drug is determined using azeotropic volumetric method. (50 marks)
 - 6.2. Describe the quantitative microscopy using lycopodium powder. (50 marks)

7.
 - 7.1. Describe the maceration process for
 - 7.1.1. organized drugs. (25 marks)
 - 7.1.2. unorganized drugs. (25 Marks)
 - 7.2. List the methods of extractions of herbal drugs other than maceration process. (50 marks)

8. Write an account on
 - 8.1. isolation of morphine from unripe capsules of *Papaversomniferum*. (50 marks)
 - 8.2. evaluation of hepatoprotective activity of herbal drugs using animals. (50 marks)