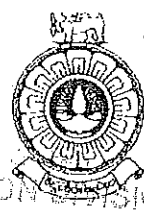


(11)

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PHARMACY
ACADEMIC YEAR 2018/2019 – SEMESTER II



BACHELOR OF PHARMACY HONOURS
BPU3135 – PHYTOCHEMISTRY– LEVEL 5
FINAL EXAMINATION
DURATION: TWO HOURS

DATE: 07TH NOVEMBER 2019

TIME: 1.30 P.M. – 03.30 P.M.

1.

1.1 Define the term “biosynthetic pathways”.

(03 marks)

1.2 Differentiate primary metabolism and secondary metabolism.

(03 marks)

1.3 Give four (04) importance of having secondary metabolites in the plants.

(04 marks)

INDEX NO:

1.4 Write five (05) main characteristic features of secondary metabolites. (05 marks)

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2.

2.1 Name three (03) amino acids produced in shikimic acid pathway via chorismic acid.

(03 marks)

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2.2 Give an example with the indication, for commercial use of shikimic acid in pharmaceutical industry. (02 marks)

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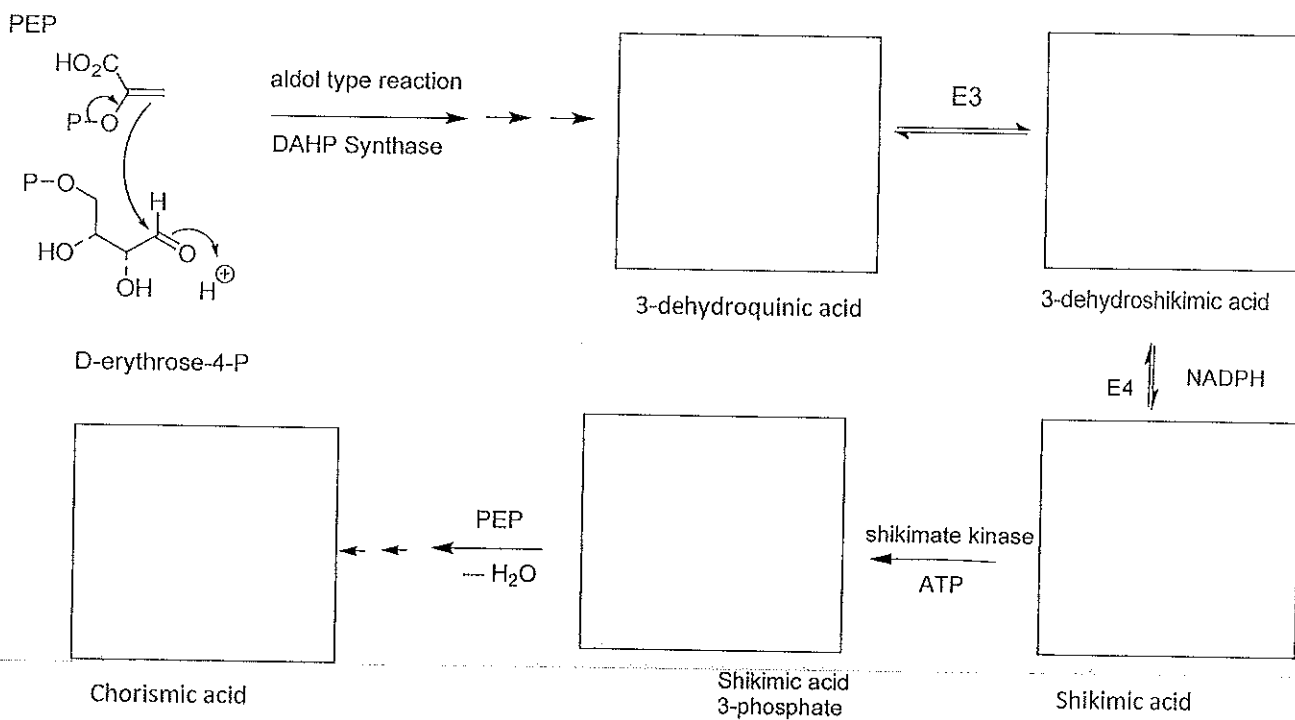
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INDEX NO:

2.3 Complete the following steps given in the shikimic acid pathway while drawing the correct structures. (10 marks)



INDEX No:

Part C – 02 SEQs (40 marks)

1.

1.1 Define the term “Analytical Pharmacognosy”. (01 mark)

1.2 Briefly state the importance of the analytical techniques in the drugs
of natural origin. (04 marks)1.3 Giving examples where required, briefly describe the main methods used in evaluation of
herbal drugs. . (15 marks)

2.

2.1 What are allergens? (02 marks)

2.2 Give the factors causing hypersensitivity to allergens only by some individuals.
(04 marks)2.3 Briefly explain the classification of allergens based on the entry of allergen
to the body. Give at least one (01) example for each. (10 marks)2.4 Give examples for the symptoms, for the different types of allergies
mentioned in 2.3 above. (04 marks)

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