(10)

00637
07 NOV 2019
EXAMINATION DIVISION

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

BACHELOR OF PHARMACY HONOURS
FMU5457 – PHYTOCHEMISTRY – LEVEL 5
FINAL EXAMINATION
DURATION: THREE HOURS

DATE: 07TH NOVEMBER 2019 TIME: 1.30 P.M. – 04.30 P.M.

INDEX NO: .....

Part B – 02 SAQs (20 marks)

1.

1.1 Name three (03) main interactions that can take place in multiple bioactive constituents in an herbal extract. (1.5 marks)

.....

.....

.....

1.2 Define the three (03) interactions mentioned in question 1.1. (4.5 marks)

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

INDEX NO: .....

1.3 State the main underlying mechanisms of interactions in multiple bioactive constituents in an herbal extract. (04 marks)

.....

.....

.....

.....

2.

2.1 Define the term "nutraceutical". (02 marks)

.....

.....

.....

.....

2.2 Name four (04) sources of nutraceuticals. (02 marks)

.....

.....

.....

.....

.....

INDEX NO: .....

2.3 Name three (03) multi component nutraceuticals and give one use for each. (06 marks)

.....

.....

.....

.....

.....

.....

.....

.....

INDEX NO: .....

Part C – 04 SEQs (60 marks)

1.

1.1 Name four (04) main processes carried out in pharmacognostical investigations.

(04 marks)

1.2 Briefly explain the processes in pharmacognostical investigations mentioned in 1.1 above.

(11 marks)

2.

2.1 Define the term "adulteration"? (02 marks)

2.2 Briefly discuss methods of direct/intentional adulteration, by giving examples.

(13 marks)

3.

3.1 Explain the synthesis of acetoacetyl-CoA from acetyl-CoA. (12 marks)

3.2 Briefly state how biosynthesis of unsaturated fatty acids differs from saturated fatty acid biosynthesis. (03 marks)

4.

4.1 What are meant by pesticides? (02 marks)

4.2 Write the properties of an ideal pesticide. (03 marks)

4.3 Briefly explain the classification of pesticides based on the type of the pest they control. (10 marks)