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D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1

SEMESTER EXAMINATIONS

APRIL– 2019

15CPCH4B

NATURAL PRODUCTS CHEMISTRY

Time: 3 Hrs.

Max.Marks : 75

SECTION–A(5x 6 =30)

Answer ALL the questions.

- (a) Draw the synthesis of Reserpine.
(Or)
(b) Give an account on the structure and role of DNA.
- (a) Illustrate any one tripeptide synthesis involving gly-ala-lys.
(Or)
(b) Explain the determination of secondary structure of protein.
- (a) Give the synthesis of Thiazole.
(Or)
(b) Draw the synthesis of Adenine.
- (a) Describe any two methods of synthesis of vitamin A_1 .
(Or)
(b) Give the synthesis of Lycopene.
- (a) Give the structural Elucidation of Ergosterol.
(Or)
(b) Draw the biosynthesis of Bile Acids.

SECTION–B(3x15 =45)

Answer any THREE of the following questions.

- Write on the total synthesis of Morphine. (15)
- a) Describe the Merrifield synthesis. (7)
b) Explain the determination of primary structure of protein. (8)
- Draw the synthesis of
a) Imidazole. (5)
b) Uracil. (5)
c) Guanine. (5)
- Describe the synthesis of α - carotene, β - carotene and lycopene using any two methods. (15)
- a) Write on biosynthesis of cholesterol. (8)
b) Explain the conversion of cholesterol to progesterone. (7)

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