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

SEMESTER EXAMINATIONS

APRIL – 2019

15CPCH4A

SCIENTIFIC RESEARCH METHODOLOGY

Time : 3 Hrs

Max. Marks : 75

SECTION-A (5x6=30)

Answer ALL the questions.

1. (a) With a short note list out the primary and secondary sources of scientific literature.

(Or)

- (b) Write short note on (i) Chemdraw (ii) Chemical abstract service.

2. (a) Discuss the adverse effects of any three hazardous chemicals.

(Or)

- (b) With neat sketch explain the distillation under reduced pressure.

3. (a) Describe precision, accuracy and their significances in data analysis.

(Or)

- (b) What are errors? How they are occurred and classified?

4. (a) What are significant figures? With suitable examples justify their role of importance.

(Or)

- (b) Write a short note on correlation diagram.

5. (a) List out the points to remember while drawing tables and figures?

(Or)

- (b) Write a short note on assignment writing.

SECTION-B (3x15 =45)

Answer any THREE of the following questions.

6. (a) Name any five journals for chemistry publications. (4)

- (b) Discuss the aim, objectives, principles involved in research. (7)

- (c) How will you find chemistry related journals using web? (4)

7. (a) Explain the precautionary measures to be taken while using explosives and radioactive materials? (6)

- (b) Write a short note on (i) Crystallization (ii) Sublimation (iii) Vacuum sublimation. (3+3+3)

8. (a) With suitable example narrate mean, median and deviation. (5)

- (b) Draw and explain Gussian curve and Poisson curve. (10)

9. (a) What are the applications of 't' test and "F" test? (8)

- (b) State the importance and mode of usage of bar diagrams. (7)

10. Discuss the general format and its components involved in thesis writing for chemistry research. (15)

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