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

SEMESTER EXAMINATIONS

NOVEMBER – 2018 15CMA3A

# DIFFERENTIAL EQUATIONS

Time : 3 Hrs Max. Marks : 75

SECTION-A (10 x 2 = 20)

Answer ALL the questions.

1. *Write a Clairaut’s equation.*
2. *Solve .*
3. *Define auxiliary equation for the function*
4. *Solve*
5. *Find the particular integral of*
6. *Solve*
7. *Define Particular integral.*
8. *Write a Complete solution form in solving differential equation by using variation parameter method.*
9. *Solve .*
10. *Write a standard form of simultaneous differential equation of the first order and first degree.*

SECTION-B (5 x 5 = 25)

Answer any FIVE of the following questions.

1. *Solve.*
2. *Solve.*
3. *Solve .*
4. *Solve.*
5. *Solve )*
6. *Solve v .*
7. *Solve .*
8. *Solve .*

SECTION-C (3 x 10 = 30)

Answer ALL the questions.

1. (a) *Solve .*

*(Or)*

*(b) Solve .*

1. *(a) Solve .*

*(Or)*

*(b) Solve .*

1. *(a) Solve .*

*(Or)*

*(b) Solve the equation .*

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