Printing Page(s) : 1 **Paper Code :DCS-111**

Roll No.

MCA-5

1st Year Examination, Academic Batch 2017-18

System Analysis & Design

CBNST

Time : 3 Hours] *[Max. Marks : 100*

***Note**. Attempt any **five** questions. Each questions carry equal marks.*

Q.1. Explain the SDLC.

Q.2. Describe DFD with examples.

Q.3. What do you know about system maintenance?

Q.4. Explain structured English & data dictionary.

Q.5: Solve the following equations by false position method.

i) $2x = \cos x + 3$

ii) $e^x \sin x - 1 = 0$

Q.6: Solve $\sin x + \cos (1+x^2) - 1 = 0$ by Newton- Raphson method.

Q7: Compute the differences upto third order for $y = x^3 - 2x^2 + 1$ in the interval $0 \leq x \leq 1$ and $h = 0.2$

Q8: Form a table of backward differences of the function $f(x) = x^3 - 3x^2 - 5x - 7$ for $x = -1,0,1,2,3,4,5$.