UG/3rd Sem/CMS(H)/T/19

2019

B.Sc.

3rd Semester Examination

COMPUTER SCIENCE (Honours)

Paper - SEC 1-T

Full Marks : 25   Time : 2 Hours

The question are of equal value for any group/half. The figures in the margin indicate full Marks. Candidates are required to give their answers in their own words as far as practiable. Illustrate the answers wherever necessary.

Programming In Matlab

A. Answer any *three* questions :   3 × 2 = 6

1. Explain Matlab commands 'Clear' and 'Clear XYZ'.

    2

2. Write the Matlab code to plot the value of the sine function zero to II?   2

3. How could you create a matrix of zeros with the same size of another matrix?   2

4. Write the differences of =, = = and ~ = in Matlab?

    2

[Turn Over]

5. Write the use of plot and subplot functions in Matlab.

2

B. Answer any *two* questions : $2 \times 5 = 10$

1. Write a Matlab function to convert temparature form celsius to Fahrenheit.   5

2. Discuss with example on construction and use of an external function in Matlab.   5

3. a) Given A = [5,9,15,25] and B = [2,12,3,70] Find out the value of

   i) Element by element multiplication of A and B. (with particular Matlab Statement)

   ii) Set XOR of A and B.

b) What are three types of errors found in Matlab.

2+3

C. Answer any *one* question : $1 \times 9 = 9$

1. i) Can Matlab Capable of handling multi-dimensional arrays?

   ii) How do we use fread, fwrite and fprintf in Matlab?

iii) Write a program to determine whether an user inputed year is a leap year or not.

2. i) What is Anonymous and inline function in Matlab

4+5

ii) Given A = [10,7,3,15,17] Find the values of B for the following :

i) $y = X \leq 5$

ii) $y = \text{Length (find } (x < 10))$

iii) $y = x \sim = 5$

iv) $y = x \text{ (find } (x > 7))$

v) $y = x \geq 10$

ANDROID PROGRAMMING

A . Answer any *three* questions :   3 × 2 = 6

1. Which are the four essential states of an activity?

2. What is Android Manifest.xml ?

3. What is the use of LogCat window in eclipse?

4. What do you mean by activity stack?

[Turn Over]

5. Define view and layout.

B. Answer any *two* questions : $5 \times 2 = 10$

1. Explain the following things in context of Android Device.

   i) Screen size

   ii) Screen Density

   iii) Resolution.

2. Write a note on activity life cycle. 5

3. Which is the latest version of Android OS? How Android supports multiple screen? 1+4

C. Answer any *one* question : $1 \times 9 = 9$

1. Explain with example to provide database connection using SQLite database in Android. What is Spinner?

   7+2

2. Create a simple registration form using edit text, radio button and store, display the user entered value. what is Manifest? 8+1