Total No. of Questions : 6]

SEAT No. :

P 5860

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BE/Insem/Oct.-604

B.E.(IT)

Software Testing & Quality Assurance

(Semester - I) (Elective- II)

(2015 Pattern)

Time : 1 Hour] *[Max. Marks :30*

Instructions to the candidates:

1) ***Answers. Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.***
2) ***Neat diagrams must be drawn wherever necessary and.***
3) ***Figures to the right side indicate full marks.***
4) ***Assume Suitable data if necessary.***

Q1) a) Explain Software Testing Life Cycle Phases. **[6]**

b) Define the following terms. **[4]**

i) Fault ii) Test bed

iii) Test Case iv) Software Quality

OR

Q2) a) Explain Defect Life cycle. **[6]**

b) Explain V model of testing. **[4]**

Q3) a) Explain Control Flow Graph and Draw a control flow graph for following code. **[6]**

/* pos_sum finds the sum of all positive numbers (greater than zero) stored in an integer array a. Input parameters are num_of_entries, an integer, and a, an array of integers with num_of _entries elements. The output parameter is the integer sum*/

i) Pos_sum(a,num_of_entries, sum)

ii) sum = 0

iii) inti=1

P.T.O.

```
iv)     while (i < num_of_entries)
v)          if a [i] > 0
vi)             sum=sum+a[i]
            endif
vii)            i=i+1
            end while
viii)   end  pos_sum
```

b) Explain configuration testing and its objectives. **[4]**

OR

Q4) a) Explain the steps in developing test cases with a cause-and-effect graph. **[6]**

b) Give difference between black box testing and white box testing. **[4]**

Q5) a) Explain Taguchi Quality Loss Function. **[6]**

b) Write short note on FMEA. **[4]**

OR

Q6) a) Explain Six Sigma Life cycle. **[6]**

b) Explain Defect removal Efficiency with an example. **[4]**

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