Total No. of Questions : 12]

SEAT No. :

P3956

[Total No. of Pages : 2

[5462] - 680

M.E. (Computer Engineering)

SOFTWARE DEVELOPMENT AND VERSION CONTROL

(2017 Course) (Semester - I) (510103)

Time : 3 Hours] *[Max. Marks :50*

Instructions to the candidates:

1) *Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10, Q11 or Q12.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data if necessary.*

Q1) What are the limitations of linear development process? Explain the incremental and reactive software development process. **[9]**

OR

Q2) Explain in detail quality attributes of the design product. What are the techniques used for assessing the design quality? **[9]**

Q3) Describe the components of the data centered software architecture. What are the benefits and limitations of data centered architectures? **[8]**

OR

Q4) What are the various distributed architecture styles? Explain them with suitables examples. **[8]**

Q5) Explain in detail the architecture reconstruction process. **[8]**

OR

Q6) Explain the following terms. **[8]**

a) Module views

b) Component - and - connector views.

P.T.O.

Q7) a) Explain the principles of source code management. **[4]**

b) Write short note on: Improving quality of processes by system virtualization. **[4]**

OR

Q8) a) Explain the configuration management framework. **[4]**

b) Write short note on: Environment configuration control. **[4]**

Q9) Explain version control best practices on Git for management of files. **[8]**

OR

Q10) What are the different types of version control systems? Explain them in detail. **[8]**

Q11) Explain the setup of any version control tool with respect to. **[9]**

a) basic configuration
b) commits
c) branching

OR

Q12) Compare the features of the following version control tools. **[9]**

a) GIT
b) GitHub
c) CVS

* * *