* A B - 3 1 7 5 *

AB-3175

Third Year B. Sc. (Comp. Sci.) (Sem. V) Examination

March/April – 2015

Paper-501 : Software Engineering - 1

Time : **2** Hours] [Total Marks : **50**

Instructions :

(1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ **Third Year B. Sc. (Comp. Sci.) (Sem. V)**

Name of the Subject :

☛ **Paper-501 : Software Engineering - 1**

☛ Subject Code No. : **3 1 7 5** ☛ Section No. (1, 2,.....) : **Nil**

Seat No. :

Student's Signature

(2) All questions are compulsory.

(3) Figures on the right side of the question indicate marks for that question.

1 Answer in Short. **14**

(1) Justify : "Design and Coding are different activities."

(2) What is Software Process ? List types of Software Processes.

(3) What is difference between Flowchart and DFD?

(4) What is FAST in software Engineering ?

(5) Why system requires Modularity?

(6) Which are elements of Interface design?

(7) List demerits of waterfall model.

2 Answer the following:

(a) Discuss qualities of good software. **6**

(b) Discuss various design principles. **6**

OR

(a) What is SRS ? Discuss characteristics and components of SRS.

(b) Discuss Prototype software development model. In which types of projects it is most preferred.

3 Answer the following:

(a) What is Cohesion? Discuss different types of cohesion. **6**

(b) Discuss various fact finding techniques. **6**

OR

(a) Draw DFD up to 2nd Level for online Admission Management System. **6**

(b) Discuss Data Dictionary. What is its importance? **6**

4 Answer any three : **12**

(a) Discuss different phases of software development.

(b) Discuss different components of DFD.

(c) Why cohesion should be high and coupling should be low ?

(d) Write a note on Software Maintenance.

(e) Write a short note on Data Design elements.