* M K - 3 7 3 1 *

MK-3731

Second Year B.C.A. (Sem. III) (CBCS) Examination

October / November – 2015

Software Engineering - I

(New Course)

Time : 3 Hours] [Total Marks : 70

Instruction :

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

Name of the Examination :
☛ **Second Year B.C.A. (Sem. III) (CBCS)**

Name of the Subject :
☛ **Software Engineering - I** *(New Course)*

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

Seat No. :

Student's Signature

1 Answer in short. 14

1 What is Software?
2 What is software architecture?
3 Define corrective maintenance.
4 What are the measures of effective modular design?
5 What is data abstraction? Give example of it.
6 What is cardinality?
7 What is Pancake Structure?

2 Answer the following questions.(Any Two) 14

1 Discuss different software applications.
2 Explain Developer and Customer Myths.
3 Define software process model. Also compare and contrast waterfall And prototype model.

3 Answer the following:;

(a) What is DFD? Explain various symbol of DFD. Give its relation with Process specification. 7

OR

(a) Explain SRS components in detail. 7
(b) Define problem analysis. Explain Analysis Model with diagram. 7

OR

(b) Explain Questionnaire and Record review techniques. 7

4 Answer the following:

(a) Explain any two design concepts. **7**

OR

(a) Explain Control Hierarchy. Also explain different types of Partitioning. **7**

(b) What is Software Design? Explain different types of design. **7**

OR

(b) Explain design heuristics. **7**

5 (a) Draw a DFD for Supermarket Stock System. **10**

OR

(a) Draw a DFD for Railway Reservation System. **10**

(b) Write Data Dictionary for above DFD. **2**

(c) Write Process Specification for above DFD. **2**