

ST. XAVIER'S COLLEGE
Sendup Examination
BIM VI/2010

Subject: : ITC 225 – Software Engineering

Full Marks: 40

Time: 2 hours

Pass Marks: 20

Candidates are required to write their answer in their own words as far as practicable.

Attempt ALL questions.

Brief answer questions.

[10 x 1 = 10]

- Q.1.** Differentiate white-box testing and black-box testing.
- Q.2.** What is cyclomatic complexity?
- Q.3.** What is a CRC card?
- Q.4.** List different software architecture names.
- Q.5.** Define FAST technique.
- Q.6.** List different types of feasibility study.
- Q.7.** Differentiate COTS and Bespoke software.
- Q.8.** What are two advantages of CASE?
- Q.9.** Draw class structure for following data requirement.
A control panel has keypad, screen, and a lite.
- Q.10.** Define a thread.

Long answer questions.

[5 x 6 = 30]

- Q.11.** Explain different modalities of incremental testing.
- Q.12.** Explain the reverse engineering process and it's role in re-engineering a software system.
- Q.13.** Explain the Object Oriented paradigm phases along with OOSE steps [10]
- Q.14.** Write short note on model-view-controller design pattern for conceptual reuse.
[2]
- Q.15.** Explain how data requirements are transformed into data design along with an example from your project.