

ST. XAVIER'S COLLEGE
Send Up Examination
BIM VI/2008

Subject: : ITC 225 – Software Engineering

Full Marks: 40

Time: 2 hours

Pass Marks: 20

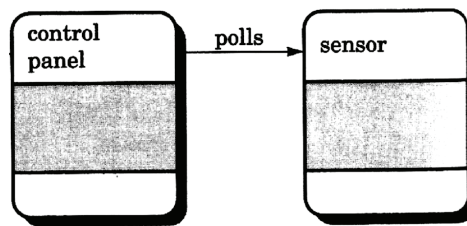
Candidates are required to write their answer in their own words as far as practicable.

Attempt ALL questions.

Brief answer questions.

[10 x 1 = 10]

- Q.1.** List the activities of project management.
- Q.2.** What is FAST?
- Q.3.** What are the characteristics of software.
- Q.4.** What is the difference between code-inspection and code walk through?
- Q.5.** Write the cardinality of object relationship in following object diagram?



- Q. 6.** What are the different types of object hierarchies?
- Q. 7.** What is the difference between thread-based testing and use-based testing in OOSE?
- Q. 8.** What is the role of traceability table in requirement management process?
- Q. 9.** What is beta testing?
- Q. 10.** Find appropriate boundary values of the variable 'counter' for following set of code.
- ```
...
for(counter = 100; counter < 200; counter++){
 ...
 ...
}
```

**Long answer questions.**

**[ 5 x 6 = 30 ]**

- Q. 11.** Explain role of cohesion and coupling in high quality software design.
- Q. 12.** Explain different types of software testing.

**Q. 13.** What are the different types of s/w maintenance? Explain each with suitable example.

**Q. 14.** Develop a test case for following function.

```
/*-----
Function name : mystrlen
Description : Finds length of a given string.
Parameters : string, address of the length variable
Returns : None
Remarks : N/A
-----*/
void mystrlen(char *string, int *length){
 *length = 0;

 for(; string[*length] != '\0'; (*length)++) {}
}
```

**Q. 15.** Write short notes on any two.

- ◆ Refactoring
- ◆ Design patterns
- ◆ Coding standards