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## **IT-6002-CBGS**

### **B.E. VI Semester**

Examination, December 2020

## **Choice Based Grading System (CBGS) Software Engineering and Project Managements**

*Time : Three Hours*

*Maximum Marks : 70*

**Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) What is the principal aim of the software engineering discipline? What does the discipline of software engineering discuss?  
b) Define Agile process. Give advantages and disadvantages in Agile development.
2. a) Describe the various phases of RAD model and list out the model's strengths and weaknesses.  
b) Explain throw-away prototyping and evolutionary prototyping. Discuss the differences between the two.
3. a) What is function point? Explain its importance. What is function-oriented metrics?  
b) Explain how a software development effort is initiated and finally terminated in the spiral model. Also explain why the spiral life cycle model is considered to be a meta model.
4. a) Differentiate between function-oriented and object oriented software development.  
b) What is functional independence? Explain different cohesion and coupling types in detail.

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5. a) What is black box-testing? Is it necessary to perform this? Explain various test activities.  
b) Explain the integration testing process and system testing processes and discuss their outcomes.
6. a) Define Scheduling of Project and how task network helps in scheduling.  
b) What are the various Software Configuration Management Tasks? What is Version Control?
7. a) What is SQA? Explain in detail the process of Formal Technical Review (FTR).  
b) Explain component based software engineering.
8. Write short note on (any two):
  - a) CMM
  - b) SCM activities
  - c) Reverse engineering

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