MCTA-204

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M. E./M. Tech. (Second Semester) EXAMINATION, June, 2012

(Grading/Non-Grading)

SOFTWARE ENGG. AND PROJECT MANAGEMENT (MCTA-204)

Time: Three Hours

Maximum Marks : $\begin{cases} GS:70 \\ NGS:100 \end{cases}$

Note: Attempt any five questions. All questions carry equal marks. HTTP://WWW.RGPVONLINE.C

- 1. What are the main software development models? What are the pros and cons of each of the software development models? How do we select suitable life cycle model for a project?
- 2. (i) What is the difference between a design requirement and software requirement?
 - (ii) Enumerate the different types of coupling that might exist between two modules. Give examples of each.
- (i) Define UML. Explain primary and secondary actor in use-case diagram using suitable example.

- 4. (i) What is Regression Testing? When is regression testing carried out? Why is regression testing necessary?
 - (ii) How can you determine the number of latent defects in a software product during the testing phase?
- 5. (i) Define the term software reliability and software quality. How can these be measured?
 - (ii) Draw the flowchart of risk management activity and explain various software risks.
- 6. (i) What are the different types of maintenance that a software product might need? Why are these maintenace required?
 - (ii) Explain Object Request Broker (ORB). What are the advantages of client-server software development?
- 7. (i) What are the problems faced during maintenace?
 - (ii) Explain the types of COCOMO models and give phase-wise distribution of efforts.
- 8. Write short notes on the following:
 - (i) Aggregation and composition
 - (ii) Use-case model
 - (iii) CORBA
 - (iv) Testing