

Paper No. 10: Software Engineering (3599)

Duration: 2½ Hours

Total Marks: 70

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| Q-1 | Do as directed | 14 |
| A) | Define Software and software engineering. Discuss various problems related to software engineering. | |
| B) | Explain spiral model. | |
| OR | | |
| Q-1 | Do as directed | 14 |
| A) | Explain waterfall model. | |
| B) | What do you mean by requirement analysis? Explain different phase of requirement analysis. | |
| Q-2 | Do as directed | 14 |
| A) | What do you mean by SRS? Explain basic characteristics of SRS. | |
| B) | Write note on software verification and validation. | |
| OR | | |
| Q-2 | Do as directed | 14 |
| A) | Explain various components of SRS. | |
| B) | Write note on problem analysis. | |
| Q-3 | Answer the following question | 14 |
| A) | Write short note on team structure. | |
| B) | Write note on UDF. | |
| OR | | |
| Q-3 | Answer the following question | 14 |
| A) | What do you mean by coupling? Explain different types of coupling. | |
| B) | Explain object oriented approach for designing software. | |
| Q-4 | Answer the following question | 14 |
| A) | Explain black box testing. | |
| B) | What do you mean by testing? Explain concept of test case and test criteria. | |
| OR | | |
| Q-4 | Answer the following question | 14 |
| A) | Explain terms Error, Fault and Failure in detail. | |
| B) | Explain level of testing. | |
| Q-5 | Prepare SRS for given Case study | 14 |
| | Assume that you are assigned responsibility of developing a Library Information System for a University (LIS) . There are 5 libraries within the University. LIS needs to be University wide and needs to cater to all the 5 libraries in a network mode. So, any staff member or a student will be able to know the availability status of a book from any of the libraries and can perform basic operation like demanding book, issuing and returning book from any location. | |
| OR | | |
| Q-5 | Prepare SRS for given Case study | 14 |
| | Assume that you are assigned responsibility of developing a Student Admission System (SAS). Admissions take place through ONLINE admission system which provides functionality of submitting online admission form, preparing merit list, choice filling and confirming admission. | |