BEIT. Sem VIN CBSGS NO-2016 SUB: - STQA

QP Code: 720903

(3 Hours)

[Total Marks:80

| N.J | B. : | (1) Questions no. 1 is compulsory. | |
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| | | (2) Attempt any three questions out of remaining five questions. | |
| 1. | (a) (b) | Differentiate between effective and exhaustive software testing. Differentiate between verification and validation. | 5 |
| | (c) (d) | Differentiate between white box and black box testing. Differentiate between top down and bottom up testing. | 5 |
| 2. | (a) (b) | Explain the Regression testing types. Explain the Software Testing Life cycle. | 10 10 |
| 3. | (a) (b) | Explain the process of test point analysis. A program reads three numbers A,B and C with a range [1,50] and print the largest number. Design test cases for this program using equivalence class testing techniques. | 10 10 |
| 4 | (a) (b) | Explain Mutation testing with the help of example. Explain the need of software matrices. | 10 10 |
| 5 | (a) (b) | Explain the MC calls quality factors. Explain the guidelines for automated testing. | 10 10 |
| 6 | Wr | te notes on (a) Test suite minimization problem (b) Issues in Object Oriented testing (c) Acceptance testing (d) Challenges in testing data warehouse. | 20 |