

2016/16 AN

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**Question Paper Code : 27612**

**5 Year M.Sc. DEGREE EXAMINATION, MAY/JUNE 2016**

**Ninth Semester**

**Software Engineering**

**ESE 091 – SOFTWARE METRICS**

**(Regulations 2010)**

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer ALL questions.**

**PART – A (10 × 2 = 20 Marks)**

1. List the factors involved in software metrics. (2)
2. Compare external product attribute with internal product attribute. (2)
3. Enumerate conception. (2)
4. State about principal component analysis. (2)
5. Define polynomially bounded. (2)
6. How to compute system spoilage ? (2)
7. Define defect density. (2)
8. What is meant by function point ? (2)
9. State the role of non-parametric models in quality management. (2)
10. Define Orthogonal defect classification. (2)

**PART – B (5 × 16 = 80 Marks)**

11. (a) Discuss representation condition of measurement with representation mapping. (16)
- OR**
- (b) (i) Describe the steps involved in GQM (Goal-Question-Metric). (8)
- (ii) Write short notes on cost and effort estimation. (8)
12. (a) Discuss how to make your investigation meaningful with example. (16)
- OR**
- (b) How to create a company base line for use case studies ? Discuss what are all the informations to be captured. (16)
13. (a) (i) Discuss about measuring problem complexity. (8)
- (ii) Elaborate Software size. (8)
- OR**
- (b) (i) Discuss in detail about information flow. (8)
- (ii) Write about internal attributes affecting maintainability. (8)
14. (a) Discuss any one software process quality model. (16)
- OR**
- (b) Explain the metric procedures implemented in the Motorola and IBM. (16)
15. (a) Explain software reliability growth models evaluated. (16)
- OR**
- (b) Write short notes on problem tracking report. (16)