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**DMI-ST.EUGENE UNIVERSITY  
DEGREE EXAMINATION – DECEMBER – 2022**

**SEM:VIII      055 CS 81 SOFTWARE TESTING AND QUALITY ASSURANCE**

Time: 3 Hours

Max. Marks: 100

**Answer any Five questions (5 x 20 = 100 Marks)**

1. a) Discuss the features of a software product quality. **(10 Marks)**  
b) Explain the Kitchenham and Pfleeger's succinct view on software quality of software quality. **(10 Marks)**
2. a) How is adhering to a process and achieving high process quality related to the quality of the artifacts? **(10 Marks)**  
b) State and explain the categories of software metrics. **(10 Marks)**
3. a) Discuss the ISO standards development process. **(10 Marks)**  
b) Discuss the ISO 9000:2000. **(10 Marks)**
4. a) Discuss the software Capability Maturity Model (CMM). **(10 Marks)**  
b) Compare and contrast CMM and CMMI. **(10 Marks)**
5. a) Discuss the immediate goals of software testing. **(10 Marks)**  
b) Explain the gray box testing. **(10 Marks)**
6. a) Explain the IEEE software & systems engineering standards committee (S2ESC). **(10 Marks)**  
b) Discuss the ISO/IEC 12207:2008 standard. **(10 Marks)**
7. a) Compare and contrast quality assurance and quality control. **(10 Marks)**  
b) What is the role and benefits of software testing in software quality assurance and explain? **(10 Marks)**