Total number of printed pages 2: Programme (UG)/Semester (VI)/UCSE602 2023

Software Engineering

Full Marks: 100

Time: Three Hours

The figures in the margin indicate full marks for the questions.

Answer question no. 1 (Compulsory) and any four (4) from the rest.

Central Institute Of Technology 1. Kokrajhar :: Bodoland a. Define the following terms in brief: 2*5=10 i) Software Life Cycle ii) Software Engineering iii) DFD v) Design document iv) Data dictionary **b**. Differentiate between the followings: 2*5=10 i) Phase Entry and Phase Exit Criteria ii) Alpha Testing and Beta Testing iii) Structured Analysis and Structured Chart iv) Function Oriented Design and Object Oriented Design v) Unit Testing and System Testing असतो मा सत गमय 2. 5*4=20 तमसो मा ज्योतिर्गमय a. What will happen if software engineering process is not followed properly? **b.** Discuss the two software engineering techniques: Abstraction and Decomposition. Why classical waterfall model is not a choice of the modern software developers? Which lifecycle model is known as Meta model and why? 3. a. What is SRS? Discuss functional and non-functional requirement. 5 **b.** Explain five desirable characteristics of a good software requirement specification.

c. Write down the functional requirements of an SRS document for an ATM

10

(Automated Teller Machine).

5x4=20

7.

Write a short note on any four

b. Intermediate COCOMO model

e. Delphi Cost estimation Technique

a. Activity diagram

c. Evolutionary model

d. Software crisis

f. Project Planning

g. Critical Path Method