

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Scholarship/Back Exam – 2082 Phagun/Chaitra

Program:Diploma in Information Technology/

Full Marks: 80

Computer Engineering

Year/Part: III/I (2022)

Pass Marks: 32

Subject: Software Development

Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt any EIGHT questions.

1. Define software product and process. Differentiate between generic and customized software product. (4+6)
2. Explain the different phases of software development life cycle. (10)
3. Define ER diagram. Draw a ER diagram of "library management system". (2+8)
4. What is feasibility analysis? Explain system proposal and its components.(3+7)
5. What is software project planning and risk management? Explain COCOMO model. (4+6)
6. Define input and output design. How quality of software can be assured? Explain. (4+6)
7. Define software verification and validation. Explain different levels of testing. (2+8)
8. Explain software maintenance process. Explain the importance of software documentation. (5+5)
9. Write short notes on: (any TWO) (2×5)
 - a) Waterfall model
 - b) DFD
 - c) Menu design
 - d) CMM