I.M.C.A. SEM–III (2014 Course) CBCS : SUMMER - 2019
SUBJECT: SOFTWARE ENGINEERING

Day : Saturday   Time : 02.00 PM TO 05.00 PM

Date : 20/04/2019   **S-2019-2122**   Max. Marks :100

N.B.:

1) Attempt any **FOUR** questions from Section –I and any **TWO** questions from Section- II.
2) Figures to the right indicate **FULL** marks.
3) Answers to both the sections should be written in SAME answer book.

SECTION – I

Q.1 What is software maintenance? Explain corrective, adaptive and preventive maintenance.   **(15)**

Q.2 What is software process model? Explain with neat diagram Spiral model and advantages of it.   **(15)**

Q.3 Explain the concept of software quality, quality control and quality assurance in brief.   **(15)**

Q.4 Explain various project management activities in brief.   **(15)**

Q.5 What is software design process? Explain in detail.   **(15)**

Q.6 Explain cost benefit analysis with example.   **(15)**

Q.7 Write short notes on any **THREE** of the following: **(15)**

    a) Taute's Model.
    b) PERT.
    c) Feasibility study.
    d) Black Box testing.

SECTION – II

Q.8 Draw DFD and ERD for Hostel Management System by considering your own assumptions.   **(20)**

Q.9 ABC Transport company has decided to develop software for their company. You are called for studying the operations of the firm. Suppose you have done the complete study of the firm with its functions.   **(20)**

Now suggest an appropriate software development model for the same. Also justify the advantages and disadvantages of the software model selected by you.

Q.10 Draw following diagram for Hostel Management System:

    a) Use Case Diagram.   **(10)**
    b) Class Diagram.   **(10)**

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