Total No. of Printed Pages:02

**SUBJECT CODE NO:- H-296**
**FACULTY OF SCIENCE AND TECHNOLOGY**
**T.E. (CSE/IT)**
**Software Engineering**
**(OLD)**

[Time: Three Hours]                                                                                      [Max. Marks: 80]

Please check whether you have got the right question paper.
N.B                    i) Q.No.1 and Q.No.6 are compulsory.
                       ii) attempt any two questions from each section
                       iii) figures right indicates full marks
                       iv)assume suitable data if necessary

**Section A**

Q.1    Attempt <u>any five</u> questions                                                                  10
       a)    List out software characteristics
       b)    What is data flow diagram?
       c)    What is process framework?
       d)    What is COCOMO?
       e)    Justify the statement "s/w doesn't wear out"
       f)    Explain data and function modelling
       g)    What are the components of software?
       h)    Write down the phase of CMM

Q.2    a.    What are the characteristics to be considered for the selection of life cycle model?    07
       b.    Explain the analysis and design model                                                    08

Q.3    a.    What is modularity? Explain it by giving example                                          07
       b.    What are the characteristics of good SRS? Give IEEE format of SRS document               08

Q.4    a.    List out different software process models. Explain any one in detail                    07
       b.    Describe data Modelling with suitable example                                            08

Q.5    a.    What are the principles of UI design? Explain                                            07
       b.    Explain Top-down and bottom up programming structure                                     08

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## Section B

Q.6     Attempt five questions                                                                                                                                 10
    a)      What is use case analysis?
    b)      List out the attributes of web based system
    c)      Explain the term project scheduling
    d)      State the objectives of testing
    e)      What is web app engineering process?
    f)      Define SCM
    g)      Define the term OOA and OOP
    h)      Write the definition of software testing?

Q.7     a.  What is software project management? Explain different management activities                07
        b.  Explain the project scheduling with timing diagram                                                               08

Q.8     a.  What is scenario based testing? Explain in detail                                                                      07
        b.  What is risk management? Explain different risk management techniques                              08

Q.9     a.  Explain in brief requirement gathering for web app                                                                  07
        b.  Draw the sequence diagram to explain the working of washing machine                           08

Q.10   Solve <u>any three</u> short notes                                                                                                         15
    a)      CRC cards
    b)      Agile planning
    c)      Collaboration diagram
    d)      Test cases
    e)      Web app engineering layers