University of Sargodha

BS 4th Term Examination 2019

Subject: Computer Science   Paper: Software Engineering (CMP-3310)

Time Allowed: 2:30 Hours   Maximum Marks: 80

Note: Objective part is compulsory. Attempt any three questions from subjective part.

Objective Part   (Compulsory)

Q.1. Write short answers of the following in 2-3 lines each on your answer sheet.   (16*2)

i.   Why Waterfall model is rigid model?
ii.   Is we Prefer CBD? Justify.
iii. What's an 'Inspection'?
iv.   Write down the name of different phases of Rational Unified Process?
v.   What is Software Reengineering?
vi.   Why Black Box Testing is called the End user type perspective? Justify
vii. Define Risk Management?
viii. Difference between Structured Analysis & Object Oriented Analysis?
ix.   Name the levels of Data & Process Modeling diagram?
x.   Is it necessary for Organization to do SWOT analysis? Justify.
xi.   Name the Fact Finding Techniques?
xii. Name the strategic planning technique used to help a person or organization?
xiii. Define Requirement Engineering?
xiv. When we select "Specialized Process Models"?
xv.   Enlist the Components of Business Information System?
xvi. Define Preliminary Investigation?

Subjective Part   (3*16)

Q.2. Define Software Design? Explain all sort of design in detail?

Q.3. What's the importance of Software Process? Why we use it? Compare any of four Software Processes based on features and limitation?

Q.4. Write a Note on any two of following option?
a. Importance of Strategic Planning?
b. Component level Design Element.
c. Types of Information System

Q.5. You have to create a Ticket Reservation System for Emirates (Emirates Air Line)? You have to test this software using different software testing techniques? Name any four testing techniques, which you have used? Also explained when and where (at which point/stage) you have used that testing technique?

Q.6. What does Agile Manifesto means? Enlist all the principles of Agile.