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> IT'S HARD TO BEAT A PERSON WHO NEVER GIVES UP.
>
> Babe Ruth, American professional baseball player

B.E. (Computer Science & Engineering) Seventh Semester (C.B.S.)
Elective - II : Software Architecture

P. Pages : 2   **NRT/KS/19/3580**

Time : Three Hours   *0265*   Max. Marks : 80

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Notes :   1.   All questions carry marks as indicated.
          2.   Solve Question 1 OR Questions No. 2.
          3.   Solve Question 3 OR Questions No. 4.
          4.   Solve Question 5 OR Questions No. 6.
          5.   Solve Question 7 OR Questions No. 8.
          6.   Solve Question 9 OR Questions No. 10.
          7.   Solve Question 11 OR Questions No. 12.
          8.   Assume suitable data whenever necessary.
          9.   Illustrate your answers whenever necessary with the help of neat sketches.

1.   a)   Explain the architecture of web application with suitable example.   **7**

         b)   What is architecture style and architectural pattern? Also Explain difference between   **7**
              them.

OR

2.   a)   Explain the architecture of software analysis.   **7**

         b)   What is the design process of software? Explain the importance of software design.   **7**

3.   a)   Explain achieving quality attributes in software architecture.   **7**

         b)   Define the term "Interoperability" and also explain tactics for interoperability.   **6**

OR

4.   a)   Explain the process of deriving the quality attributes for software architecture?   **7**

         b)   How can we decide the quality of software architecture?   **6**

5.   a)   What is maintenance management in software architecture?   **7**

         b)   Explain principles and expectations of design pattern.   **6**

OR

6.   Write short note on:
              i)   Singleton   **4**
              ii)   Adaptor   **3**
              iii) Iterator   **3**
              iv)   Mediator   **3**

7.   a)   Explain service oriented architecture.   **7**

         b)   What are the basic properties of architectural styles?   **7**

OR

8.	a)	Explain web services architecture and it's elements in details.	**7**
	b)	Describe conventional architectural style.	**7**
9.	a)	How does the programming models implementing in middleware?	**7**
	b)	Write short note on: i) COTS ii) Economic driven architecture	**6**

OR

10.	a)	Explain detail the architecture of middleware.	**6**
	b)	Write and explain software architecture future.	**7**
11.	a)	Explain Multi-Tier web architecture in detail.	**7**
	b)	What do you mean by client side Technologies?	**6**

OR

12.	a)	Explain the needs of server side technology.	**7**
	b)	Write short note on: i) Common Gateway Interface ii) Servlet	**6**

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The secret of getting ahead is getting started.

~ Mark Twain

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