

- 1) An institution named as “A” specializes in training people related to web designing/developing and providing training program of 2 months costing Rs 25000. Another institution named as “B” is providing a course related to software engineering for Rs 200000 (for 8 months).

Answer: Even though the 8 months package is costly compared to the 2 months package, I will prefer 8 months package. It is because to become a developer, we not only require a certificate but we also require a very good practice, knowledge and experience. To cover a wide concept and gain a decent experience in 2 months is a bit impractical. If I take 8 months course, I will have the opportunity to learn wider expects with better experience. So, I will choose the 8 months package to learn all these things.

- 2) What are the major attributes that is expected in a good software product?

(Hint: Think about characteristics like scalability, usability etc. apart from that we learn in slide etc.)

Answer: The major attributes are listed below:

- **User-friendly:** The first thing a software need is its connection with the customers and for that it must be user friendly. The customer/user must know how to go through it and what to do with it.
- **Well updated:** For the product to be effective, it must go with the flow and for that the product must be latest. It should deal with recent times problems and provide services accordingly. It should never be outdated.
- **Changeable:** Everything changes with time and so the product should. Day by day new things and problems will be discovered. For that the product needs to be changeable to face and solve the current and upcoming scenarios.
- **Profit oriented:** The major aim to make any software product is to gain profit for an organization or for individual. The profit can me economic wise or service wise. At least people should be benefited after its release.

3) Describe 3 symptoms of poorly engineered software products?

Answer: The 3 symptoms of poorly engineered software products are listed below:

- **Frequents crashes and glitch:** one of the major symptoms of poorly engineered products is its poor performance which includes crashes and glitch. Because of this the users may get frustrated and they may not get their outcomes on time.
- **Outdated:** The outdated products will become unpopular among the users and it is one of the major issues for the recent users.
- **Unfamiliar and poor user interfaces:** The poor user interface will not connect the product and users correctly. And if this happens the users will unable to get expected outcomes from the products.

4) What are the key challenges in the field of social engineering? Explain.

Answer: The key challenges in the field of social engineering are as follows:

- **Sample collection:** one of the major challenges is to collect the sample to engineer the product. It is because the audience from whom we collect the data may not represent every individual residing in certain location.
- **Allocate the boundary:** The product should include some boundary and the engineers should work within a boundary according to the targeted audience and it is one of the major challenges.
- **Testing the product:** The testing process should go through different steps and it might miss some crucial testing unknowingly. It should be done very carefully and it is also of the key challenges.
- **Maintenance after review:** After review there might be many problems in the product and to solve them is one of the major challenges.

5) How does system engineering different from software engineering?

The system engineering means the developers and the coders who particularly