**Answer the following multiple-choice questions.**

**1) What are the steps involved in the SDLC process? You may pick more than one.**

1. Implementation
2. Planning
3. Selling
4. Support
5. Analysis
6. Requirements Gathering

(2 mark)

**2)In an Agile Model, how many iterations are there and how long does each iteration last?**

1. One iteration, one day
2. One iteration, one to three weeks
3. At least two iterations, one day
4. At least two iterations, one to three weeks

(1 mark)

**3) In a Waterfall Model, can you start two steps simulataneously?**

1. Yes
2. No

(1 mark)

**4) What are the steps in the Software Development Life Cycle?**

1. Analysis, Design, Construction, Support, Implementation, Testing, Budget
2. Testing, Design, Implementation, Support, Maintenance, Construction, Analysis
3. Support, Implementation, Analysis, Design, Planning, Construction, Testing
4. Budget, Planning, Maintenance, Support, Design, Testing, Construction

(1 mark)

**5) What are the advantages of the agile model?**

1. Rapid Delivery of Product
2. Small Incremental Builds
3. Flexible
4. All of the above

(1 mark)

1. **)What is one of the things that the UI/View Tier does?**
2. Performs calculations
3. Stores data
4. Manages user input
5. Authenticates user

(1 mark)

**7) What is the value of** 0x10**?**

1. 16
2. 10
3. 2
4. 0

(1 mark)

**8) What is not a valid variable name?**

1. last\_name
2. raise
3. \_address
4. car\_2\_blue

(1 mark)

**9) Given a statement** x = y % 4**, where** y = 57**, what is** x**?**

1. 0
2. 1
3. 14
4. 15

(1 mark)

**10) What is not the important characteristics of a bad design that should be avoided?**

1. Rigidity
2. Fragility
3. Immobility
4. Security

(1 mark)

**11) What is not the role of a UI Tier?**

1. Retrieve User Input
2. Handling of Sessions and Cookies
3. Calculation of Data
4. Display Data for User to see and use

(1 mark)

**12) When are Singleton Pattern used?**

1. When you need to create only one object
2. To provide a global point of access to the object
3. To create new objects by copying this pattern
4. Reuse and share objects that are expensive to create

(1 mark)

13) Given the following code:

t = (‘a’, ‘b’, ‘c’, ‘d’)

(v1, v2, v3, v4) = t

What is v3?

1. a
2. b
3. c
4. d

(1 mark)

14) What is 6 + 2 % 5?

1. 3
2. 6
3. 13
4. 8

(1 mark)

**15) What are characteristics of a list?**

1. Ordered
2. Immutable
3. Accessible by Index
4. Can contain any objects

Which are the correct characteristics?

1. I, II, III
2. II, III, IV
3. I, III, IV
4. I, II, IV

(1 mark)

**16) What is the result of this logical expression,**

a == b or not c and b

where a = True, b = False, and c = True?

1. True
2. False

(1 mark)

**17) Why are general purpose languages useful? You may choose more than one.**

1. Can develop different types of applications.
2. Easy to develop
3. Not constrained to a specific application domain
4. Cheaper to develop

(2 mark)

**18) What are the common languages for Procedural Programming?**

1. Fortan
2. C++
3. Java
4. C

(1 mark)