Reg. No.

B.Tech. DEGREE EXAMINATION, MAY 2022
Sixth Semester

## 18CSE374T – SOFTWARE ENGINEERING TOOLS
*(For the candidates admitted from the academic year 2018-2019 to 2019-2020)*

**Note:**
(i) **Part - A** should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.
(ii) **Part - B** should be answered in answer booklet.

Time: 2½ Hours                                                 Max. Marks: 75

### PART – A (25 × 1 = 25 Marks)
### Answer **ALL** Questions

| | Marks | BL | CO | PO |
|---|---|---|---|---|
| 1. The most important feature of spiral model is | 1 | 1 | 1 | 1 |

(A) Risk management  (B) Requirement analysis
(C) Configuration management  (D) Quality management

| | Marks | BL | CO | PO |
|---|---|---|---|---|
| 2. If every requirement stated in the software requirement specification (SRS) has only one interpretation, SRS is said to be | 1 | 2 | 2 | 2 |

(A) Correct  (B) Unambiguous
(C) Consistent  (D) Verifiable

| | Marks | BL | CO | PO |
|---|---|---|---|---|
| 3. SRS is also known as specification of | 1 | 3 | 2 | 1 |

(A) White box testing  (B) Stress testing
(C) Black box testing  (D) Integrated testing

| | Marks | BL | CO | PO |
|---|---|---|---|---|
| 4. Which one of the following is not a step of requirement engineering | 1 | 3 | 1 | 1 |

(A) Elicitation  (B) Analysis
(C) Design  (D) Documentation

| | Marks | BL | CO | PO |
|---|---|---|---|---|
| 5. Consider a system where a heat sensor detects an intrusion and alerts the security company. What kind of a requirement the system is providing? | 1 | 2 | 2 | 1 |

(A) Functional  (B) Non functional
(C) Known requirement  (D) Unknown requirement

| | Marks | BL | CO | PO |
|---|---|---|---|---|
| 6. Relocating bits used by relocating loader are specified by _____ | 1 | 2 | 3 | 1 |

(A) Relocating loader itself  (B) Linker
(C) Assembler  (D) Macro processor

| | Marks | BL | CO | PO |
|---|---|---|---|---|
| 7. ATOM is a free and open source _____ editor software application | 1 | 3 | 3 | 1 |

(A) Text and code editor  (B) Line and stream editor
(C) Screen and line editor  (D) Word processor and structure editor

| | Marks | BL | CO | PO |
|---|---|---|---|---|
| 8. Identify in the following which one is not a major cloud computing platform | 1 | 2 | 3 | 1 |

(A) Microsoft azure  (B) Amazon EC2
(C) IBM deep blue  (D) Google 101

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ii. On what basis the types of software testing is classified, draw and explain.    5 4 5 4

**(OR)**

b. Write a note on four test management tools with its features.    10 3 5 1

30. a. Mention the benefits of status reporting. Explain any four with its features.    10 4 6 1

**(OR)**

b.i. How Risks can be managed using tools? Explain with examples.    5 4 6 1

ii. How Administrative tools are helpful? Explain with administrative tools.    5 4 6 1

* * * * *

9. Which components can be injected as a dependency in Angular .JS     1   3   3   1
   (A) Constant         (B) Value
   (C) Factory          (D) Application module

10. Identify which of the following options which is not an essential tool for   1   2   3   1
frontend web development
   (A) jQuery          (B) PHP
   (C) Twitter Bootstrap          (D) Angular .JS

11. A program that accepts requests from a web browser and send back results   1   3   4   1
in the form of HTML documents, is known as
   (A) Web host          (B) Web server
   (C) Web interface          (D) Web application

12. Identify the following options which is NOT an essential tool for backend   1   2   4   4
web development
   (A) Ruby on rails          (B) Apache
   (C) jQuery          (D) Mongo DB

13. The expansion of CSS _____.     1   3   4   1
   (A) Current Style Sheets          (B) Current Sheets Style
   (C) Cascading Style Sheets          (D) Cascading Sheets Style

14. Identify the following is NOT a CMS.     1   2   4   1
   (A) Wordpress          (B) Drupal
   (C) Magneto          (D) SAP

15. A wordpress, a _____ is a way of grouping posts together based on a   1   3   4   4
select number of relationships.
   (A) Slug          (B) Custom post
   (C) Permalink          (D) Taxonomy

16. A healthcare organization with many locations patient management system   1   3   5   1
to store sensitive patient in formation. Information security is the most vital
concern, which cloud based service model is more appropriate.
   (A) IaaS          (B) PassS
   (C) SaaS          (D) FaaS

17. Frontend applications which include GUI is created using _____   1   2   5   4
   (A) DOS          (B) Compiler
   (C) IDE          (D) JVM

18. Which of the following is not an essential function of a word processing   1   3   5   1
software package.
   (A) Indexing          (B) Saving
   (C) Editing          (D) Formatting

19. Standard enforcer is a     1   2   5   4
   (A) Static testing tool          (B) Dynamic testing tool
   (C) Static and dynamic testing tool    (D) Not a tool

20. Software testing with real data in real environment is known as   1   2   5   1
   (A) Alpha testing          (B) Beta testing
   (C) Regression testing          (D) Gamma testing

21. Sanity testing is a _____.     1   3   6   1
   (A) Test type          (B) Test execution level
   (C) Test level          (D) Test design technique

22. Browser supported by load runner     1   2   6   1
   (A) IE          (B) Mozilla firefox
   (C) Opera          (D) All options

23. Which Load runner component runs the Vuser that generates the load   1   3   6   1
   (A) Vugen          (B) Analysis
   (C) Controller          (D) Load generator /host

24. The QTP script files are stored in the extensions of   1   2   6   1
   (A) $*\cdot mts$          (B) $*\cdot usr$
   (C) $*\cdot mtr$          (D) $*\cdot vbs$

25. In SCM process, which one of the following is not in a task list   1   2   6   1
   (A) Version control          (B) Change control
   (C) Configuration audit          (D) Design control

## PART – B (5 × 10 = 50 Marks)
### Answer ALL Questions

Marks   BL   CO   PO

26. a. Illustrate and explain the concept of classification of software tools using   10   3   1   1
software life cycle taxonomy.

**(OR)**

  b. Differentiate static analysis and dynamic analysis tools based on the   10   4   2   1
activities.

27. a.i. Differentiate syntax analyzer Vs lexical analyser. Give an example for   5   4   3   1
each.

  ii. Define IDE, write about ATOM IDE and its benefits.   5   3   3   2

**(OR)**

  b. Illustrate the phases of a compiler and explain about each phase with a   10   4   3   1
suitable example.

28. a. What is Ruby on Rails? How it works? Draw and explain.   2+3+5   3   4   1

**(OR)**

  b. Brief about common features of content management system. List the   8+2   3   4   2
popular CMS.

29. a.i. Draw the software testing life cycle frame work phases.   5   3   5   1