S.No. 7272   **P 22 MCAE 1 C**

(For candidates admitted from 2022–2023 onwards)

M.C.A. DEGREE EXAMINATION, NOVEMBER 2023.

Computer Applications – Elective

AGILE TECHNOLOGY

Time : Three hours   Maximum : 75 marks

PART A — (20 Marks)

Answer ALL questions.

I.   (A)   Multiple choice questions :   (5 × 1 = 5)

1.   What is agile methodology?

(a)   Agile methodology is a sequential approach to software development

(b)   Agile methodology is an iterative approach to software development

(c)   Agile methodology is a circular approach to software development

(d)   Agile methodology is a prototype approach to software development

2.   Agile has iterations of

(a)   1 to 4 day   (b)   1 to 4 weeks

(c)   4 to 8 weeks   (d)   1 to 4 months

3.   Which of the following are correct quality strategies of agile?

(a)   Short feedback cycles

(b)   Milestone reviews

(c)   Dynamic code analysis

(d)   All of the above

4.   Which chart depicts the amount of work done in the project?

(a)   burn-down   (b)   bum-up

(c)   both (a) and (b)   (d)   none of the above

5.   Which three framework activities are present in Adaptive Software Development (ASD)?

(a)   analysis, design, coding

(b)   requirements gathering, adaptive cycle planning, iterative development

(c)   speculation, collaboration, learning

(d)   all of the above

(B) Fill in the blanks : (5 × 1 = 5)

6. Agile is an ———— of software development methodology

7. Agile has ———— manifesto.

8. ———— defines a set of consultations and tools that work in to aid teams' structure and accomplish their work.

9. A product is built in a series of repetitions called ————

10. ———— is a framework that is used to execute agile software development. It also involves real-time communication of capacity and full transparency of work.

II. Answer ALL questions : (5 × 2 = 10)

11. Define Agile in brief.

12. What are Agile frameworks?

13. How to manage remote teams?

14. What do you mean by the term "velocity" in Agile?

15. What is Agile Manifesto?

PART B — (5 × 5 = 25)

Answer ALL questions.

16. (a) What are the different types of Agile methodologies?

Or

(b) Explain Iterative and Incremental Development in Agile.

17. (a) What are some important parts of the Agile process?

Or

(b) What are the principles of Agile Testing?

18. (a) What are some popular Agile tools?

Or

(b) What are the obstacles to the Agile process?

19. (a) What is the right moment to use the Agile model?

Or

(b) What are the essential qualities a good Agile tester should have?

20. (a) Discuss about the challenges involved in developing Agile Software.

Or

(b) What are the major agile quality strategies?

PART C — (3 × 10 = 30)

Answer any THREE questions.

21. Explain about software is new product development?

22. Discuss about Agile Development and Classification of Methods.

23. Discuss about Agile work products, Roles and Practices values.

24. Explain about Scrum Deliverable and methods.

25. Discuss about Agile Project Management and Requirements.

———————