B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2024
Seventh Semester
Computer Science and Business Systems
20CBPW703 - IT PROJECT MANAGEMENT WITH LABORATORY
Regulations - 2020

Duration: 3 Hours   Max. Marks: 100

PART - A (MCQ) (20 × 1 = 20 Marks)
Answer ALL Questions

| | | Marks | K-Level | CO |

1. What is the definition of a critical path? It's a path that connects the starting and ending nodes. — 1, K1, CO1
   (a) It combines all of the paths.   (b) It is the shortest route.
   (c) It is the most direct route.   (d) None of the above

2. The _____ is the difference between both the allotted time and the actual time needed to execute a task. — 1, K1, CO1
   (a) Free float   (b) Independent float   (c) Total float   (d) Half float

3. Which of the following is not a phase of project management? — 1, K1, CO1
   (a) Project planning   (b) Project scheduling
   (c) Project controlling   (d) Project being

4. A PERT network is activity-oriented while a CPM network is event-oriented. — 1, K1, CO1
   (a) True   (b) False

5. A 66.6% risk is considered as — 1, K1, CO2
   (a) very low   (b) Low   (c) moderate   (d) high

6. Which of the following is/are main parameters that you should use when computing the costs of a software development project? — 1, K1, CO2
   (a) travel and training costs
   (b) hardware and software costs
   (c) effort costs (the costs of paying software engineers and managers)
   (d) all of the mentioned

7. To crash a schedule you should: — 1, K1, CO2
   (a) Increase the time allowed on those tasks that have float.
   (b) Try to increase expenditures of time only those tasks that is behind schedule.
   (c) Replace those workers that are not performing up to par with the busy.
   (d) Increase work efforts on those tasks that are on the critical path.

8. What is the role of Product Owner? — 1, K1, CO2
   (a) requirement prioritize   (b) develop code   (c) test the code   (d) None of the above

9. Which Agile principle emphasizes sustainable development and maintaining a consistent pace indefinitely? — 1, K1, CO3
   (a) Deliver working software frequently
   (b) Welcome changing requirements, even late in development
   (c) Build projects around motivated individuals
   (d) Maintain a constant pace indefinitely.

10. In Agile, the term "time-to-market" refers to: — 1, K1, CO3
   (a) The amount of time taken to complete each sprint
   (b) The duration taken to develop the entire project
   (c) The speed at which the product reaches the market for customers
   (d) The time allocated for product testing.

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

13260

11. Agile encourages face-to-face communication because: *1 K1 CO3*
    (a) It eliminates the need for documentation
    (b) It ensures that all team members are always present in meetings
    (c) It fosters better understanding and collaboration among team members
    (d) It speeds up decision-making processes

12. What activities are a part of Product Backlog Refinement?   *1 K1 CO3*
    (a) Estimate the Product Backlog Items   (b) The ordering of the Product Backlog Items
    (c) Creating the Definition of Done   (d) Creation of tas

13. Who are the attendees of scrum sprint planning meeting   *1 K1 CO4*
    (a) Development Team   (b) Scrum Master   (c) Team Members   (d) All of above

14. Who are the attendees of scrum sprint review meeting   *1 K1 CO4*
    (a) Product Owner   (b) Scrum Master and Development
    (c) Customers and Management   (d) All of above

15. A term Velocity is used for____?   *1 K1 CO4*
    (a) A sprint duration   (b) The progress rate by team
    (c) Remaining workload   (d) None of above

16. What are the Agile software development benefits?   *1 K1 CO4*
    (a) Improved Quality   (b) Customer Satisfaction   (c) Productivity   (d) All of above

17. Relate docker is a platform for ____.   *1 K1 CO5*
    (a) Developing an application   (b) Shipping an application
    (c) Running an application   (d) All of the above

18. How many components are there in Docker?   *1 K1 CO5*
    (a) 3   (b) 4   (c) 5   (d) 6

19. Which one is a cloud registry service that allows you to obtain Docker images created by other communities?   *1 K1 CO5*
    (a) Container   (b) Hub   (c) Images   (d) None of the above

20. Which of the following is the default network driver?   *1 K1 CO5*
    (a) Bridge   (b) Host   (c) Overlay   (d) Ipvlan   (e) None of the above

PART - B (10 × 2 = 20 Marks)
Answer ALL Questions

21. What are the Benefits of using PERT?	*2*	*K1*	*CO1*
22. What is Cost Control in Project Management?	*2*	*K1*	*CO1*
23. Define project leveling.	*2*	*K1*	*CO2*
24. List out any two types of risk.	*2*	*K1*	*CO2*
25. What are the agile principles followed in crystal framework?	*2*	*K1*	*CO3*
26. Compare FDD and TDD.	*2*	*K2*	*CO3*
27. How use stories and Story Points represented in Sprint?	*2*	*K1*	*CO4*
28. Compare Burn down Chart and Burn Up Chart.	*2*	*K2*	*CO4*
29. What are the goals of Configuration management processes?	*2*	*K1*	*CO5*
30. List the Categories in Automated Deployment.	*2*	*K1*	*CO5*

PART - C (6 × 10 = 60 Marks)
Answer ALL Questions

31. a) Compare and contrast between Fast Tracking vs. Crashing Head-to-Head Comparison.   *10 K2 CO1*

OR

    b) Illustrate how the project cost estimated by using Gantt chart and List the various types of Project cost estimation.   *10 K2 CO1*

32.	a)	Explain cost estimation method T-shirt Size estimation and wideband Delphi with example.	10	K2	CO2

OR

	b)	Explain resource leveling in both agile and waterfall project management activities and how resource leveling done.	10	K2	CO2

33.	a)	Explain the agile model by applying the 12 Agile Principles and 4 Agile values.	10	K2	CO3

OR

	b)	Explain in detail about DSDM and its principles.	10	K2	CO3

34.	a)	Organize and schedule the Sprint Life Cycle for two weeks sprint.	10	K3	CO4

OR

	b)	Solve and estimate the Sprint Velocity and Capacity of four weeks sprint with any one real time example.	10	K3	CO4

35.	a)	Make use of how automated monitoring is integrated with Devops Practices.	10	K3	CO5

OR

	b)	Apply the devops practices in Continuous Integration and how it works in real world example.	10	K3	CO5

36.	a) i)	Identify the various activities in Product Refinement Meeting and Sprint Review meeting.	5	K3	CO4
	ii)	Organize the steps how to Manage the Source Code in Devops architecture.	5	K3	CO5

OR

	b) i)	Identify the various activities in Sprint Retrospective Meeting and Daily Scrum Meeting.	5	K3	CO4
	ii)	Identify the functionality of Automating Builds.	5	K3	CO5