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| Question Paper Code | 12176 |
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B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023
Seventh Semester
Computer Science and Business Systems
20CBPW703 - IT PROJECT MANAGEMENT WITH LABORATORY
(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

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

- | | <i>Marks,
K-Level, CO</i> |
|-------------------------------------------------------------------------------------|-------------------------------|
| 1. State the characteristics of Project. | 2,K1,CO1 |
| 2. Differentiate PERT and CPM. | 2,K2,CO1 |
| 3. State the need for Project cost Control. | 2,K1,CO2 |
| 4. List various types of risks. | 2,K1,CO2 |
| 5. What is meant by Agile Project Management? | 2,K1,CO3 |
| 6. State the principles of Agile. | 2,K1,CO3 |
| 7. Write the role of SCRUM Master. | 2,K1,CO4 |
| 8. List the various terminologies used in Scrum | 2,K1,CO4 |
| 9. What are the key components of DevOps? | 2,K1,CO5 |
| 10. List the 4 tools used as a part of adopting DevOps in the software development. | 2,K1,CO5 |

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

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| 11. a) Explain how you would do a Project Feasibility Study. | 13,K2,CO1 |
| OR | |
| b) Describe the concepts of Project Scheduling. | 13,K2,CO1 |
| 12. a) With a neat sketch discuss about Project Budgeting Framework. Elaborate on how does it helps in managing budget that over run. | 13,K2,CO2 |
| OR | |
| b) Elaborate the golden rules to be used in Project Risk Management. | 13,K2,CO2 |
| 13. a) (i) What is Agile Project Management? Explain the 5 pillars of the Agile Project Management. | 7,K2,CO3 |
| (ii) Briefly explain the Agile Project Management Phases. | 6,K2,CO3 |

OR

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

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- b) What is Extreme Programming? How does Extreme Programming work? Explain the principles and values of Extreme Programming in detail. *13,K2,CO3*
14. a) (i) What is scrum? Explain about the scrum values, events and artifacts in detail. *7,K2,CO4*
(ii) Explain in detail about sprint review. *6,K2,CO4*
- OR**
- b) What is product backlog? Why is product backlog important? Write the qualities for effective backlog. Why is backlog refinement important? *13,K2,CO4*
15. a) Explain in detail about the Docker architecture. *13,K2,CO5*
- OR**
- b) Discuss in detail about automated monitoring. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) (i) The Marina team faced the challenge of managing their project effectively and maximizing their velocity. They needed to find a way to improve their project management processes to increase productivity and ensure successful project completion. Find out and explain how the above problem can be improved using an agile methodology. *8,K2,CO4*
(ii) Explain the continuous deployment process with suitable real time scenario. *7,K2,CO5*
- OR**
- b) (i) The Yellow Blash team, consisting of volunteers and sponsors, faced several challenges. These challenges included the need for improved cross-team collaboration, empowerment of teams, adapting to changing conditions, and addressing the impact of the COVID-19 pandemic on team composition and priorities. Find out how the above problem can be addressed. *8,K2,CO4*
(ii) Discuss any one real time application where DevOps could be used. *7,K2,CO5*