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# B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

## February / March 2023 Semester End Main Examinations

**Programme: B.E.**

**Branch: Institutional Elective**

**Course Code: 22AM7OEJIR**

**Course: Jira Programming**

**Semester: VII**

**Duration: 3 hrs.**

**Max Marks: 100**

**Date: 22.02.2023**

**Instructions:** 1. Answer any FIVE full questions, choosing one full question from each unit.  
2. Missing data, if any, may be suitably assumed.

### UNIT - I

1 a) A team uses a classic bug tracking project without a board. They need help in determining the right way to implement a board that will support their existing process. 4

- \* They don't work in sprints.
- \* Their key metrics are lead time and cycle time.
- \* Only managers are allowed to move issues from the backlog status to selected for development.

Illustrate the steps required to find the solution to meets their needs? 8

b) What is an issue in Jira? List and explain the types of issues and how it can be created. 8

c) Define Jira dashboard? Provide the steps to create, edit and choose dashboards. 8

### UNIT - II

2 a) Define burndown chart? How to create a burndown chart in Jira with an example. 6

b) Illustrate the use of Confluence in Jira? What are the advantages of linking Jira with confluence? Give the steps to create a Jira project and confluence space. 10

c) An organization is frequently adding new DEV projects. As a result, users must keep updating queries. They want to avoid making frequent updates to saved filters whenever new DEV projects are created. What changes can help team? Explain. 4

### UNIT - III

3 a) Differentiate between Kanban and Scrum boards and explain the different ways of configuring boards in JIRA. 6

**Important Note:** Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

b) What are relative and calendar functions in JIRA. With respect to the date & time functions, explain the following queries and classify them as relative or calendar function:

- created > -10d
- duedate > startOfWeek()
- due < -1w
- due < 5d
- due < endOfYear("+1")

c) The development team has just released their first version of a GPS tracker yesterday. The next product release is not due for another 3 months. Write any two JQL queries, when executed today, will list all features shipped in the first version? 4

#### UNIT – IV

4 a) Describe the steps to configure permissions in Jira Cloud to ensure that sensitive information is only accessible by authorized users? 6

b) Provide the different JQL operators and discuss how can they be used to refine search results? What is the difference between using the "AND" and "OR" operators in JQL, and specify the use of each operators? 10

c) A user has created a shared filter called PNW that returns all issues in the PNW region for the project. The team has asked for a Filter results gadget to be added to the project dashboard to show unresolved issues for the PNW region. Write the JQL query which returns all unresolved PNW issues? 4

#### OR

5 a) Sarah is unable to share a dashboard with the support team. Identify where an administrator needs to make a configuration change. 4

- Product access to Jira software.
- Product access to Jira Service Management.
- Project permissions for the support project.
- Global permissions for the respective site.

b) Differentiate between team-managed project and company-managed projects in Jira cloud. 8

c) Illustrate the need of Jira automation. List the building blocks of automation rules and the steps to create a automation rule with an example. 8

#### UNIT - V

6 a) Describe the various configuration options available to admins in Jira Automation and how can they be used to meet the specific needs of the organization and improve the efficiency of the issue resolution process. 10

b) Define workflow. Consider the House-building Workflow, an issue that represents a house to be built. Keeping in mind that it does not capture the complexity of an actual home-building project, but it will suffice to help us to review the different parts. Discuss the Statuses, the transitions, Parts of a transitions and resolution which represents the given scenario. 10

**OR**

7 a) A medical clinic has decided to use Jira. Their project will allow patients to file medical complaints. The requirements for the project are as follows:

- Members of the group (Jira-patients) must be able to see only their own complaints.
- Members of the group (medical-board) must be able to see all complaints.

Based on these two requirements, provide and explain the configurations which satisfies the given criteria.

b) Provide the various types of work management reports available in Jira. How can they be used by Admins to gain insights into the efficiency and performance of work management processes within their organization? 10

c) A team complains that many of their issues are in the Closed status, but do not have a resolution set, which causes problems with reporting. The project uses a single workflow and it is required to set the resolution to “Done” on all existing issues in the “Closed” status. What combination of workflow elements and a bulk operation will achieve this? Explain. 5

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