

Department of Computer Science

**Course: Artificial Intelligence**

**Quiz-05 & 06 (Total Marks: 06)**

Student Name: Student ID:

Note: Solve both questions and upload in the Moodle. Solve step by step.

**Q1. Consider below transections table, use Apriori algorithm and generate the rules with 100%**

**confidence. Minimum Support = 2.**

**Q2. Consider below transections table, Use FP Tree algorithm to construct FP Tree.**

**Minimum Support = 2.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TID | Items Set | | | |
| 1 | Egg | Milk | Bread | Butter |
| 2 | Milk | Egg | Butter | Ketchup |
| 3 | Bread | Butter | Ketchup | Honey |
| 4 | Butter | Milk | Bread |  |
| 5 | Bread | Butter | Cookies |  |
| 6 | Milk | Bread | Butter | Honey |
| 7 | Cookies | Milk | Honey | Egg |
| 8 | Milk | Bread | Butter | Honey |
| 9 | Bread | Butter | Egg | Cookies |
| 10 | Milk | Bread | Butter | Honey |
| 11 | Milk | Butter | Bread |  |
| 12 | Milk | Bread | Ketchup | Cookies |

**Ans:**