KERALA AGRICULTURAL UNIVERSITY

B.Tech.(Food Engg.) 2015 Admission IV Semester Final Examination – July - 2017

| t. No: Fden 2206 Title: Dairy Engineering and Technology(2+1) | Marks: 50 Time : 2 hours |
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| I. Fill up the blanks: | (10 x 1=10) |
| 1. The specific gravity of milk fat is | |
| 2. The process of reducing fat globule size in milk to prevent | cream separation is known as ε |
| 3. The disk stack of a cream separator rotates with the bowl a | t around rpm. |
| 4. In study of pumps, NPSH stands for | |
| 5. The fact percentage in Indian Butter is about | |
| 6. LTLT pasteurization of milk has a time-temperature combi | nation of |
| 7. According to FSSAI standards, skim milk should have a fa | at content ofand an SNF |
| 8. The emulsifier used in the preparation of ice cream is | |
| 9. In a drum dryer, the dried particles are removed from the d | |
| 10. The power requirement of a homogenizer(E), whose homo | genizing pressure (p), and volume |
| flow rate (Q) are known, can be expressed as | |
| II. Write short notes on ANY FIVE: | (5x 2=10) |
| 1. Operation Flood | |
| 2. Paring disc | |
| 3. Cheese | |
| 4. Regeneration efficiency | |
| 5. Fouling | ¥ |
| 6. Booster pump | |
| 7. Toned milk | |
| III Write answers on ANY FIVE: | (5 x 4=20) |
| 1. Flow Diversion Valve | |
| 2. Vapour recompression | |
| 3. Cleaning-in-place | |
| 4. Aseptic Packaging | |
| 5. Continuous Butter Making Machine | |
| 6. Spray Drying | |
| 7. Vacreation | |
| IV. Write essay on any ONE | (1 x 10=10) |
| 1. Explain the construction and working of an HTST pasteur | izer with a neat schematic diagram. |

2. Explain the construction and working of a homogenizer with a neat schematic diagram.