Seat No: _____

Enrollment No: _____ PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY B.Tech. Winter2019 – 20 Examination

| | B. 1 ech. Winter 2019 – 20 Examination | | | |
|--|---|--|-------------------------|--|
| Subject Code: 03110309 Tin | | Date: 03/12/2019 Time: 10:30 am to 1:0 Total Marks: 60 | me: 10:30 am to 1:00 pm | |
| | | | | |
| Instructions: | | | | |
| 1. All questions are compulsory. | | | | |
| 2. Figures to the right indicate full marks. | | | | |
| | e suitable assumptions wherever necessary. | | | |
| 4. Start new question on new page. | | | | |
| in 1. 2. | ojective Type Questions - (Fill in the blanks, one word answer, MCQ case of MCQ) (All are compulsory) (Each of one mark) The mixture of oil and n-hexane solvent is know as The process of removal of air from cans before heat processing is called | | (15) | |
| | The separation of liquid from solid containing liquid by applied pressure is t | ermed as | | |
| 4. | Kick's law gives reasonably good results forgrinding. | | | |
| | Homogenization means the reduction inby pressure. | | | |
| 6. | under controlled condition of temperature, relative humidity and air flow. | | | |
| | is a relatively mild heat treatment, in which food is heated to be | | | |
| 8. | The process of removing germ, hull and tip cap from the kernel and to get g | grit is termed as | | |
| 9. | is hydrothermal process in which paddy soaked in water follow by steaming. | ed by gelatinization | | |
| 1 |) | | | |
| | is not concerned with ionizing radiation. | | | |
| 1 | (a) Sterilization (b) Control ripening (c) Enhance sprouting (d) Increase | e shelf life | | |
| 1′ | 2. Addition of water to the bran and endosperm is know as | | | |
| 1. | (a) De-Germing (b) tempering(c) hydrogenation (d) steeping | | | |
| 1′ | 3. The appearance of dark color extracted oil can be improved by | | | |
| 1. | (a) De-odorizing (b) bleaching (c) Wintering (d) neutralization | | | |
| 1. | 4force is dominating in process due to pulveration of the material be | etween two toothed | | |
| 14 | metal disks rotating in opposite direction. | | | |
| | (a) Compressive (b) Impact (c) Attrition (d) Cutting | | | |
| 1. | 5. Preserving food by heating and sealing hermetically is known as | | | |
| 1. | (a) drying (b) canning (c) blanching (d)radiation processing | | | |
| 024- | | | (15) | |
| | swer the following questions. (Attempt any three) | | (15) | |
| | Define size reduction ?What is the need of size reduction? | | | |
| B) | What is mixing ?classify the mixing depending on the equipment and | mixing mechanisms | | |
| | used. Which are the criteria for performance evaluation of mixer? | | | |
| C) | Define the following terms. | | | |
| | (1)Rancidity (2)Hydrogenation of oil (3)Wintering (4)Saponification value | | | |
| D) | Which Principles are considered during selection of conveying system | ? | | |
| Q.3 A) | What is dehydration? Explain dehydration of fruit and vegetables with | 1 flow-sheet and also | (07) | |
| | give a FPO specification for dehydrated fruits and vegetables. | | | |
| B) | Describe bucket elevator and its component in brief also classify var | ious types of bucket | (08) | |
| 2) | elevator | Jr to or outfor | | |
| OR | | | | |
| ים | - | anation filtration | (00) | |
| В) | Explain theory of separation covering Screening, size & un-sized separation | mation, intration, | (08) | |
| A A A | Principle of cake filtration and rate of filtration | | (c = | |
| Q.4 A) | | of CFTRI method of | (07) | |
| pigeon pea milling. | | | | |
| OR | | | | |
| A) | Explain pulse milling and the terminology used in pulse milling. | | (07) | |
| D | | | (0.0) | |

A) Explain pulse milling and the terminology used in pulse milling. (07)
B) Explain in detail fruit and vegetables canning process with process flow chart. (08)