

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)**

**CLASS: IMSC
BRANCH: FOOD TECH**

**SEMESTER: VI
SESSION : SP/2019**

SUBJECT : IMF6009 FOOD INDUSTRY WASTE MANAGEMENT

TIME: 1.30 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 30.
 2. Candidates may attempt for all 30 marks.
 3. In those cases where the marks obtained exceed 25 marks, the excess will be ignored.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. The missing data, if any, may be assumed suitably.
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- Q1 (a) What are the three core attributes for food? Compare wastage of food in developing countries and developed countries. [3]
(b) Show the % breakdown of EU27 food waste generation. [2]
- Q2 (a) What is waste? What are the three categories waste of animal By products by EU council? [3]
(b) What are the best available technique for food and drink sector? [2]
- Q3 (a) What are the principles of green production? [3]
(b) Discuss the Waste management hierarchy. [2]
- Q4 (a) Discuss different types of wheat waste and its utilization. [3]
(b) Show the flow chart of cashew nut processing. [2]
- Q5 (a) Show the possible waste generated in different stages of production of coffee powder starting from cultivation to oil extraction. [3]
(b) Show the steps of alcohol preparation from cashew nut apple. [2]
- Q6 (a) How animal glue is prepared? Give some applications of animal glue. [3]
(b) What are the different modification of cellulose? [2]

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