Roll no …………………….

**VISION INSTITUTE OF TECHNOLOGY, ALIGARH**

**Session 2019-20**

**B.Tech. 3rd Year (6th Sem.) Internal Sessional -I**

**SUBJECT NAME:** (RAG-602) **Branch: AG**

**Max. Time: 2 Hours Max. Marks: 50**

**Section-A**

**QNo-1Attempt *all* questions from the following: (2x5=10)**

1. What is density?
2. What is rolling resistance? Write its importance also.
3. In sand & Clay soil; which have high porosity?
4. What is thixotropic property?
5. What is the main difference between spices & Condiments?

**Section-B**

**QNo-2 Attempt any *Five* questions from the following: (5X5=25)**

1. Write down the importance of engineering properties of Agricultural Produce.
2. Define co-efficient of friction?
3. What do you understand by Thermal properties? Describe any two.
4. What is Newtonian Fluid & Non Newtonian fluid
5. What is angle of repose? Describe in details with examples.
6. What is the difference between static friction & Dynamic Friction?
7. What do you understand by Rheological properties? Describe any two.
8. What do you understand by Fruits & Vegetable processing.

**Section- C**

**QNo-3 Attempt any *two* questions from the following:** (**7.5x2=15)**

1. What do you understand by stress & strain diagram? Describe in details.
2. Write down the mechanical properties of material.
3. Write short notes on-

a) Roundness Ratio

b) Specific Heat

c) Viscosity

Roll no …………………….

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**Section-B**

**QNo-2 Attempt any *Five* questions from the following: (5X5=25)**

1. Write down the importance of engineering properties of Agricultural

Produce.

1. Define co-efficient of friction?
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