**VISION INSTITUTE OF TECHNOLOGY, ALIGARH**

**Assignment**

**B.Tech**. **2nd Year (4thSem)**

**Manufacturing Process** - (**NME -403**) Branch**: ME**

**QNo-1**

1. What is major classification of Manufacturing Process?
2. What is the recrystallization temp**?**
3. What are the riser and runner?
4. Define casting?
5. What are different pattern allowances

**QNo-2**

**a.** What is the casting process and also mounding process

**b.** Explain different types of allowances diagram**?**

**c.** What are the Different types of casting defects explain it briefly and write its remedies?

**d.** What are the riser and its types? **e.** Explain advantages and disadvantages of casting?

**f**. Explain conventional manufacturing process and its examples

**g**. What is regenerative manufacturing process explain its advantages?

**h.** In a cubical casting of 50mm size under goes volumetric solid contraction of 6% & volumetric solidification shrinkage 4% there is no riser used for pattern making allowances is not considered what is the final size of the casting.?

**QNo-3**

**a.** What are additive manufacturing and rapid prototyping, rapid tooling exp.?

**b.** What are the various steps involves in casting system?

**c.** Explainand draw riser design for both top and side