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**INTERNATIONAL CENTRE FOR APPLIED SCIENCES  
(MAHE)**

**III SEMESTER B.Sc. (Applied Sciences) MAKE -UP EXAMINATION – January 2022**

**SUBJECT: MANUFACTURING PROCESS ENGINEERING (IME 232)**

**(BRANCH: MECH)**

**Timing: 3 hours**

**Date: 10<sup>th</sup> January 2022**

**Max. Marks: 50**

- ✓ Answer All questions
- ✓ Missing data, if any, may be suitably assumed

- 1.A** With a neat sketch explain the tungsten Inert Gas Welding and explain its advantages and disadvantages. **5**
- 1.B** With neat sketch explain the working principle of orthogonal and oblique cutting operation. **5**
- 2.A** Explain the Washer manufacturing by blanking and piercing operations. **5**
- 2.B** List the different types of taper turning operations used in lathe and explain Compound rest swivel method.
- 3.A** With a neat sketch explain Plaster mould casting and its advantages, Disadvantages and applications **5**
- 3.B** With a neat sketch explain the Twist Drill Nomenclature **5**
- 4.A** Divide the periphery of the job into 69 divisions using standard index plate two of B & S type having 21,23,27,29,31,33 holes by compound indexing method. **5**

Plate No. 1	15	16	17	18	19	20
Plate No. 2	21	23	27	29	31	33
Plate No. 3	37	39	41	43	47	49

- 4.B** List and explain the Selection of Grinding Wheels using constant factors **5**
- 5.A** List the different types of milling machine and explain any 2 operations. **5**
- 5.B** With a neat sketch explain Stereolithography method of Rapid proto type technology. **5**

