

**III-SEM MECH/AUTO/AERO/DME/M.MAINT/M.PROD/M.IE/2019 (W)/(NEW)**

**TII-1 -PRODUCTION TECHNOLOGY**

Full mark =80

Time = 3 Hour.

Answer any five question including Q NO. 1 & 2

Figures in the right hand margin indicate marks.

1. Answer ALL the Questions. (2×10)

- a. Define extrusion process.
- b. Define rolling and classify it.
- c. Write different types of flames used in oxy-acetylene welding process.
- ~~d.~~ What is pattern in foundry shop?
- e. Write the function of flux in welding.
- f. Define powder metallurgy process.
- g. Differentiate between blanking and punching operation.
- h. Define casting process.
- ~~i.~~ Define jigs and fixtures.
- ~~j.~~ What is sintering process?

2. Answer any SIX Questions. (5×6)

- ~~a.~~ Explain different types of flames used in oxy-acetylene welding process.
- ~~b.~~ Differentiate between compound and progressive die.
- ~~c.~~ Explain impact extrusion process with neat sketch.
- ~~d.~~ Differentiate between hot rolling and cold rolling.
- ~~e.~~ Explain different type of pattern allowance.
- ~~f.~~ Explain working of crucible furnace
- ~~g.~~ Write about different types of welding defects.

3. Explain about different types of rolling mill arrangements. (10)

4. Explain powder metallurgy process step by step (10)

5. Explain 3-2-1 principle of location of rectangular jigs. (10)

6. Explain Metal Inert gas welding with neat sketch. (10)

7. Write about the working of cupola furnace with neat diagram. (10)