

**GOVERNMENT POLYTECHNIC KANDHAMAL, PHULBANI**  
**CHAPTERWISE QUESTION BANK PRODUCTION TECHNOLOGY**  
**PREPARED BY –Trupti Mohanty Lect. In Mechanical Engg.**

**CH-1**

**2 Marks Questions**

1. Classify Extrusion process.
2. What are the objectives of studying Production Technology?
3. Define Rolling process.
4. Classify the different types of rolling Process.
5. Define Extrusion process.
6. Define Impact extrusion process.
7. What do you understand by “Recrystallisation Temperature”?
8. What is Extrusion?
9. Name an Extrusion process by which a toothpaste tube can be produced?

**5 Marks Questions**

1. Explain with neat sketches the Direct Extrusion Process?
2. Compare hot rolling and cold rolling process.

**CH-2**

**2 Marks Questions**

1. Write different types of flames used in Oxy-Acetylene welding process.
2. State the function of flux in welding.
3. Discuss about Resistance Spot welding process with sketch.
4. Name any two materials suitable for Oxy-Acetylene welding Process.
5. What do you understand by Gas Welding?

**5 Marks Questions**

1. Write down the difference between TIG and MIG welding process?
2. What is the principle of resistance welding process? Classify it?
3. Write 5 welding defects with its causes and remedies?

**10 Marks Questions**

1. What is Resistance welding process? Explain spot welding and seam welding with a neat sketch.
2. Explain TIG process with a neat sketch.
3. Discuss about various types of destructive and non-destructive types of tests carried out to detect welding defects.

4. Explain GMAW process with neat sketch.

### CH-3

#### 2 Marks Questions

1. Define pattern. What are the types of pattern?
2. Define casting? Write its uses?
3. Why cores are needed in casting?
4. What do we understand by economics of casting?
5. Define porosity and its remedies.
6. What is the function of chill and chaplet?

#### 5 Marks Questions

1. Explain different type of pattern allowances.
2. Explain different types of moulding sands with its compositions.
3. What is centrifugal casting? Explain with neat sketch.
4. Discuss the significance of oxidizing and reducing zones of a cupola furnace.
5. What are the advantages and disadvantages of casting process?

#### 10 Marks Questions

1. Discuss about any five types of casting defects, its causes and remedies.
2. Describe the construction and working principle of Cupola furnace with a neat sketch.

### CH-4

#### 2 Marks Questions

1. Define Powder Metallurgy process.
2. Explain Sintering Process.

#### 5 Marks Questions

1. List the different advantages of powder metallurgy.
2. State the limitations of powder metallurgy process.

#### 10 Marks Questions

1. Explain the process of Powder Metallurgy.

### CH-5

#### 2 Marks Questions

1. What is blanking operation?
2. Why dies are used in press work?
3. Define Piercing and trimming.

#### 5 Marks Questions

1. What is punching operation? Discuss about various types of punches.
2. Explain Progressive die and compound die.

## CH-6

### 2 Marks Questions

1. Jigs & Fixtures increases the production cycle time (True/false). Justify your answer.

### 5 Marks Questions

1. Compare jigs with fixtures.

### 10 Marks Questions

1. Explain 3-2-1 location of rectangular jig.