

SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution)

SRM Nagar, Kattankulathur– 603203.

DEPARTMENT OF MECHANICAL ENGINEERING

QUESTION BANK



III SEMESTER

ME3365 MANUFACTURING PROCESSES

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DEPARTMENT OF MECHANICAL ENGINEERING

ME3365 MANUFACTURING PROCESSES

UNIT I - METAL CASTING			
Casting terminology, hand moulding, pattern material, allowance; Pattern types: Single piece, split, gated; Core prints, moulding sand properties, design of patterns, moulds and cores; solidification and cooling; riser and gating design. Melting furnaces: Blast and Cupola Furnaces; Principle of special casting processes: Shell - investment - Ceramic mould - Pressure die casting - Centrifugal Casting - Stir casting; Defects in Sand casting.			
PART - A (2 Marks)			
Q.No.	Questions	BT Level	Competence
1.	Define the term "casting" in manufacturing.	BT-1	Remembering
2.	What is hand moulding in casting?	BT-1	Remembering
3.	List two common materials used for making patterns in casting.	BT-1	Remembering
4.	What is an allowance in casting, and why is it important?	BT-2	Understanding
5.	Clarify about a single-piece pattern.	BT-2	Understanding
6.	What is a split pattern in casting?	BT-2	Understanding
7.	Write the purpose of core prints in casting.	BT-2	Understanding
8.	Summarize the essential properties of moulding sand?	BT-2	Understanding
9.	Why is pattern design important in casting?	BT-2	Understanding
10.	What factors influence the design of a mould?	BT-3	Applying
11.	Define the solidification process in casting.	BT-2	Understanding
12.	What is the purpose of a riser in casting?	BT-2	Understanding
13.	Interpret the gating design in casting.	BT-2	Understanding

14.	What is a blast furnace used for in casting?	BT-1	Remembering
15.	Write the principle of a cupola furnace.	BT-2	Understanding
16.	Summarize about the shell casting process.	BT-2	Understanding
17.	What is investment casting?	BT-2	Understanding
18.	Recall the ceramic mould casting process.	BT-2	Understanding
19.	What is pressure die casting?	BT-2	Understanding
20.	Interpret centrifugal casting.	BT-2	Understanding
21.	What is stir casting?	BT-2	Understanding
22.	Name two common defects in sand casting and their causes.	BT-2	Understanding
23.	How can riser design minimize casting defects?	BT-1	Remembering
24.	What role does permeability play in moulding sand properties?	BT-1	Remembering
25.	What are the benefits of using ceramic mould casting for high-temperature alloys?	BT-1	Remembering

PART - B (16 Marks)

Q.No.	Questions	Marks	BT Level	Competence
1.	Explain the importance of various casting terminologies like sprue, runner, gate, riser, core, and mould. Discuss their roles in the casting process with suitable diagrams.	16	BT-2	Understanding
2.	Compare and contrast hand moulding techniques such as green sand moulding and dry sand moulding. Discuss their advantages, limitations, and applications.	16	BT-4	Analyzing
3.	Describe the different materials used for making patterns in casting. Evaluate their	16	BT-3	Applying

	properties and suitability for various casting applications.			
4.	Discuss the concept of allowance in casting. Explain the different types of allowances and their effects on the final casting product with examples.	16	BT-3	Applying
5.	Describe the design and application of single-piece, split, and gated patterns in casting. How does the choice of pattern type affect the casting process and final product?	16	BT-4	Analyzing
6.	Explain the purpose of core prints in casting. How are core prints designed and integrated into patterns? Provide examples to illustrate their use.	16	BT-3	Applying
7.	Analyze the properties of moulding sand. How do these properties influence the quality of the final casting?	16	BT-4	Analyzing
8.	Describe the process of designing patterns, moulds, and cores in casting. Discuss the key considerations and challenges involved in these designs.	16	BT-4	Analyzing
9.	Explain the principles of solidification and cooling in the casting process. Discuss how these principles affect the structure and properties of the final cast product.	16	BT-3	Applying
10.	Discuss the design and function of risers and gating systems in casting. How do they contribute to minimizing casting defects?	16	BT-3	Applying
11.	Compare and contrast blast and cupola furnaces used in metal melting for casting. Discuss their operating principles, advantages, and limitations.	16	BT-4	Analyzing

12.	Describe the principles and applications of shell casting, investment casting, and ceramic mould casting. How do these special casting processes differ from traditional sand casting?	16	BT-4	Analyzing
13.	Explain the pressure die casting process. What are its advantages and limitations compared to other casting methods?	16	BT-4	Analyzing
14.	Discuss the centrifugal casting process. How does centrifugal force influence the quality and properties of cast parts?	16	BT-3	Applying
15.	Describe the stir casting process used for producing metal matrix composites. How does stir casting improve material properties?	16	BT-3	Applying
16.	Identify and explain common defects in sand casting. How can these defects be detected and minimized?	16	BT-4	Analyzing
17.	Evaluate the impact of riser and gating design on the efficiency and quality of casting. Provide examples of effective designs.	16	BT-4	Analyzing
18.	Explain the role of melting furnaces in the casting process. Compare the environmental and economic impacts of using blast furnaces versus cupola furnaces.	16	BT-4	Analyzing

UNIT II - JOINING PROCESSES

Operating principle, basic equipment, merits and applications of fusion welding processes: Gas welding - Types - Flame characteristics; Manual metal arc welding - Gas Tungsten arc welding - Gas metal arc welding - Submerged arc welding - Electro slag welding; Operating principle and applications of resistance welding - Plasma arc welding - Thermit welding - Electron beam welding - Friction welding and Friction Stir Welding, brazing, soldering and adhesive bonding; Weld defects: types, causes and cure.

PART - A (2 Marks)

Q.No.	Questions	BT Level	Competence
1.	Define the operating principle of fusion welding.	BT-1	Remembering
2.	List two basic equipment used in gas welding.	BT-1	Remembering
3.	Mention two merits of using gas welding in industrial applications.	BT-2	Understanding
4.	Restate the characteristics of a neutral flame in gas welding.	BT-2	Understanding
5.	Differentiate between oxidizing flame and carburizing flame in gas welding.	BT-2	Understanding
6.	What are the types of gas welding processes?	BT-1	Remembering
7.	Clarify the operating principle of Manual Metal Arc Welding (MMAW).	BT-2	Understanding
8.	State two applications of Gas Tungsten Arc Welding (GTAW).	BT-1	Remembering
9.	What are the advantages of using Gas Metal Arc Welding (GMAW)?	BT-2	Understanding
10.	Outline the basic operating principle of Submerged Arc Welding (SAW).	BT-2	Understanding
11.	What distinguishes Electro Slag Welding (ESW) from other arc welding processes?	BT-2	Understanding
12.	Summarize the operating principle of resistance welding.	BT-2	Understanding

13.	Provide two industrial applications of resistance welding.	BT-1	Remembering
14.	Restate the primary benefit of Plasma Arc Welding (PAW).	BT-2	Understanding
15.	How does Thermit welding work, and where is it commonly applied?	BT-2	Understanding
16.	List two advantages of Electron Beam Welding (EBW).	BT-1	Remembering
17.	Outline the friction welding process.	BT-2	Understanding
18.	What is the main difference between Friction Welding and Friction Stir Welding (FSW)?	BT-2	Understanding
19.	Define brazing and its primary application.	BT-1	Remembering
20.	What are the differences between brazing and soldering?	BT-2	Understanding
21.	Clarify the process of adhesive bonding and its main use.	BT-2	Understanding
22.	Identify two common types of weld defects.	BT-1	Remembering
23.	List two causes of porosity in welds.	BT-1	Remembering
24.	Suggest a cure for preventing cracks in weldments.	BT-2	Understanding
25.	Summarize the impact of improper welding parameters on weld quality.	BT-2	Understanding

PART - B (16 Marks)

Q.No.	Questions	Marks	BT Level	Competence
1.	Describe the operating principles, basic equipment, merits, and applications of gas welding. Compare the characteristics of different flame types used in gas welding.	16	BT-4	Analyzing
2.	Explain the operating principles and applications of manual metal arc welding	16	BT-3	Applying

	(MMAW). What are the advantages and limitations of this welding process?			
3.	Analyze the differences between gas tungsten arc welding (GTAW) and gas metal arc welding (GMAW) in terms of operating principles, equipment, and applications.	16	BT-4	Analyzing
4.	Discuss the operating principles and applications of submerged arc welding (SAW). What are the main advantages and disadvantages of using SAW?	16	BT-3	Applying
5.	Explain the process of electro slag welding (ESW). What are its key applications and limitations?	16	BT-3	Applying
6.	Describe the operating principles and applications of resistance welding. How do different types of resistance welding processes (spot, seam, projection) differ?	16	BT-4	Analyzing
7.	Explain the principles and applications of plasma arc welding (PAW). What are the advantages and disadvantages of this process compared to GTAW?	16	BT-3	Applying
8.	Describe the thermit welding process and its applications. What are the key advantages and disadvantages of thermit welding?	16	BT-3	Applying
9.	Explain the principles of electron beam welding (EBW) and its applications. What are the primary advantages and limitations of EBW?	16	BT-3	Applying
10.	Discuss the operating principles and applications of friction welding and friction stir welding. Compare the advantages and disadvantages of these processes.	16	BT-4	Analyzing

11.	Describe the brazing process and its applications. What are the key differences between brazing and soldering?	16	BT-4	Analyzing
12.	Explain the principles of soldering and its applications. What are the advantages and disadvantages of using soldering in electronic assembly?	16	BT-3	Applying
13.	Discuss the principles and applications of adhesive bonding. Compare adhesive bonding with traditional welding methods.	16	BT-4	Analyzing
14.	Identify and describe common weld defects. Discuss the causes and possible remedies for each type of defect.	16	BT-4	Analyzing
15.	Explain the principles and characteristics of different flame types used in gas welding. How do these flame types affect the welding process and the quality of the weld?	16	BT-4	Analyzing
16.	Analyze the advantages and limitations of Gas Metal Arc Welding (GMAW) compared to Manual Metal Arc Welding (MMAW). Discuss specific applications where GMAW is preferred over MMAW.	16	BT-3	Applying
17.	Describe the submerged arc welding (SAW) process. Discuss the impact of welding parameters on the quality and properties of the weld.	16	BT-3	Applying
18.	Discuss the applications and benefits of using plasma arc welding (PAW) for precision manufacturing. How does PAW achieve high precision and control compared to other welding methods?	16	BT-4	Analyzing

UNIT III - BULK DEFORMATION PROCESSES

Hot working and cold working of metals - Forging processes - Open, impression and closed die forging - forging operations. Rolling of metals- Types of Rolling - Flat strip rolling - shape rolling operations - Defects in rolled parts. Principle of rod and wire drawing - Tube drawing - Principles of Extrusion - Types - Hot and Cold extrusion.

PART - A (2 Marks)

Q.No.	Questions	BT Level	Competence
1.	Define hot working and cold working of metals.	BT-1	Remembering
2.	What is open die forging?	BT-1	Remembering
3.	State the difference between impression die forging and closed die forging.	BT-2	Understanding
4.	List two common forging operations.	BT-1	Remembering
5.	What are the main types of rolling mills used in metalworking?	BT-1	Remembering
6.	Recall the process of flat strip rolling.	BT-2	Understanding
7.	What is shape rolling?	BT-1	Remembering
8.	Identify two common defects in rolled parts.	BT-1	Remembering
9.	Restate the principle of rod and wire drawing.	BT-2	Understanding
10.	What is tube drawing and its primary purpose?	BT-1	Remembering
11.	Define the principle of extrusion.	BT-1	Remembering
12.	Differentiate between hot extrusion and cold extrusion.	BT-2	Understanding
13.	List two advantages of hot working processes.	BT-1	Remembering
14.	What are two benefits of cold working processes?	BT-1	Remembering
15.	Identify the purpose of open die forging.	BT-2	Understanding

16.	Explain one advantage of using impression die forging.	BT-2	Understanding
17.	What is a common application of closed die forging?	BT-1	Remembering
18.	Identify one major defect in rolled parts and its cause.	BT-1	Remembering
19.	Recall the process of shape rolling.	BT-2	Understanding
20.	What is the significance of rod and wire drawing in manufacturing?	BT-2	Understanding
21.	Summarize one key principle of tube drawing.	BT-2	Understanding
22.	What is the main difference between direct and indirect extrusion?	BT-2	Understanding
23.	Mention one advantage of using cold extrusion over hot extrusion.	BT-2	Understanding
24.	What is one common use of hot extrusion in industry?	BT-1	Remembering
25.	Write short notes of any one method to prevent edge cracks in rolled parts.	BT-2	Understanding

PART - B (16 Marks)

Q.No.	Questions	Marks	BT Level	Competence
1.	Explain the principles of hot working and cold working of metals. Discuss their advantages, disadvantages, and applications.	16	BT-4	Analyzing
2.	Compare and contrast open die forging, impression die forging, and closed die forging processes. Discuss their applications and limitations.	16	BT-4	Analyzing
3.	Describe the sequence of operations involved in a typical forging process. How do these operations affect the properties of the forged part?	16	BT-3	Applying

4.	Explain the principles of flat strip rolling and shape rolling operations. How do they differ in terms of equipment and applications?	16	BT-4	Analyzing
5.	Discuss the common defects encountered in rolled parts. How can these defects be identified and minimized?	16	BT-4	Analyzing
6.	Describe the principles of rod and wire drawing processes. What are the key factors that influence the quality of drawn products?	16	BT-3	Applying
7.	Explain the tube drawing process and its applications. How does tube drawing improve the properties of tubes compared to other manufacturing processes?	16	BT-4	Analyzing
8.	Discuss the principles of extrusion. Compare and contrast hot extrusion and cold extrusion in terms of processes, applications, and product properties.	16	BT-4	Analyzing
9.	Describe the different types of extrusion processes. Discuss their specific applications and limitations.	16	BT-4	Analyzing
10.	Explain the role of temperature control in hot working and cold working processes. How does temperature affect the mechanical properties and microstructure of the metal?	16	BT-3	Applying
11.	Describe the key considerations in designing dies for forging processes. How do these considerations impact the quality and precision of forged parts?	16	BT-3	Applying
12.	Discuss the various methods used for controlling the shape and size of rolled products. How do these methods contribute to minimizing rolling defects?	16	BT-3	Applying

13.	Analyze the impact of lubrication in the rod and wire drawing processes. What are the benefits and challenges associated with using lubricants?	16	BT-4	Analyzing
14.	Explain the significance of die design in the tube drawing process. How does die design influence the final dimensions and quality of the drawn tubes?	16	BT-3	Applying
15.	Evaluate the advantages and limitations of using hot extrusion for manufacturing complex shapes. Provide examples of products commonly made by hot extrusion.	16	BT-3	Applying
16.	Discuss the applications of cold extrusion in the automotive industry. How does cold extrusion contribute to manufacturing efficiency and product performance?	16	BT-4	Analyzing
17.	Describe the importance of material selection in the forging process. How does the choice of material affect the forging process and the properties of the forged parts?	16	BT-3	Applying
18.	Analyze the impact of process parameters on the quality of products in rolling, drawing, and extrusion processes. Provide examples of how parameter optimization can enhance product quality.	16	BT-4	Analyzing

UNIT IV - SHEET METAL PROCESSES

Sheet metal characteristics - shearing, bending and drawing operations - Stretch forming operations - Formability of sheet metal - Test methods -special forming processes-Working principle and applications - Hydroforming - Rubber pad forming - Metal spinning Introduction of Explosive forming, magnetic pulse forming, Super plastic forming - Micro forming.

PART - A (2 Marks)

Q.No.	Questions	BT Level	Competence
1.	Define sheet metal characteristics.	BT-1	Remembering
2.	What is shearing in sheet metal operations?	BT-1	Remembering
3.	Clarify the bending operation in sheet metal forming.	BT-2	Understanding
4.	Identify the drawing operation in sheet metal forming.	BT-2	Understanding
5.	What is stretch forming?	BT-1	Remembering
6.	How is formability of sheet metal measured?	BT-2	Understanding
7.	What is the purpose of the tensile test in sheet metal forming?	BT-2	Understanding
8.	Recall the principle of hydroforming.	BT-2	Understanding
9.	What is rubber pad forming?	BT-1	Remembering
10.	Outline the metal spinning process.	BT-2	Understanding
11.	What is explosive forming?	BT-1	Remembering
12.	Identify the magnetic pulse forming.	BT-2	Understanding
13.	What is superplastic forming?	BT-1	Remembering
14.	Write short notes about the micro forming process.	BT-2	Understanding
15.	What is the significance of formability in sheet metal operations?	BT-2	Understanding

16.	Paraphrase the principle of the forming limit diagram (FLD).	BT-2	Understanding
17.	How does hydroforming benefit the automotive industry?	BT-2	Understanding
18.	What are the advantages of rubber pad forming?	BT-2	Understanding
19.	Identify the applications of metal spinning.	BT-2	Understanding
20.	What are the safety considerations in explosive forming?	BT-2	Understanding
21.	How does magnetic pulse forming improve joining processes?	BT-2	Understanding
22.	What materials are suitable for superplastic forming?	BT-1	Remembering
23.	Mention one advantage of micro forming.	BT-1	Remembering
24.	List the bending operation's importance in manufacturing.	BT-2	Understanding
25.	How does stretch forming differ from other forming processes?	BT-2	Understanding

PART - B (16 Marks)

Q.No.	Questions	Marks	BT Level	Competence
1.	Describe the characteristics of sheet metal and discuss the significance of these characteristics in sheet metal forming processes.	16	BT-4	Analyzing
2.	Explain the principles and operations involved in shearing processes. Discuss the factors that affect the quality of the sheared edges.	16	BT-3	Applying
3.	Discuss the various bending operations used in sheet metal forming. How do different bending methods affect the properties of the formed parts?	16	BT-4	Analyzing

4.	Explain the drawing process for sheet metal. What are the key factors that influence the success of a drawing operation?	16	BT-3	Applying
5.	Describe the principles and applications of stretch forming operations. What are the advantages and limitations of stretch forming?	16	BT-4	Analyzing
6.	Discuss the concept of formability in sheet metal forming. What are the common test methods used to assess the formability of sheet metal?	16	BT-4	Analyzing
7.	Explain the working principle and applications of hydroforming. How does hydroforming compare to traditional forming methods?	16	BT-4	Analyzing
8.	Describe the rubber pad forming process. Discuss its applications and the advantages and limitations of using this process.	16	BT-4	Analyzing
9.	Explain the principles and applications of metal spinning. How does metal spinning differ from other forming processes?	16	BT-4	Analyzing
10.	Discuss the working principles of explosive forming and magnetic pulse forming. What are the key differences between these two processes?	16	BT-4	Analyzing
11.	Explain the principles of superplastic forming. Discuss the advantages and limitations of this process, and provide examples of its applications.	16	BT-3	Applying
12.	Discuss the concept of micro forming and its applications. How does micro forming address the challenges of manufacturing micro-scale components?	16	BT-3	Applying

13.	Describe the process of designing a sheet metal part for manufacturability. What factors must be considered to ensure efficient and cost-effective production?	16	BT-3	Applying
14.	Analyze the impact of material properties on the selection of sheet metal forming processes. Provide examples of materials commonly used in different forming operations.	16	BT-4	Analyzing
15.	Discuss the importance of lubrication in sheet metal forming processes. How does lubrication affect the quality and efficiency of forming operations?	16	BT-3	Applying
16.	Describe the process of deep drawing and its applications. What are the common defects encountered in deep drawing, and how can they be prevented?	16	BT-4	Analyzing
17.	Explain the role of computer-aided design and simulation in sheet metal forming. How do these technologies enhance the design and manufacturing process?	16	BT-3	Applying
18.	Evaluate the environmental impact of various sheet metal forming processes. How can sustainable practices be implemented in sheet metal manufacturing?	16	BT-4	Analyzing

UNIT V - POWDER METALLURGY AND PLASTIC PROCESSING

Production of metal powder: Atomization, crushing; Blending; Compacting: Die pressing, iso-static pressing; Sintering: Principle, continuous sintering process; Plastic processing: Injection, Blow moulding, Rotational moulding, Film blowing and Thermoforming.

PART - A (2 Marks)

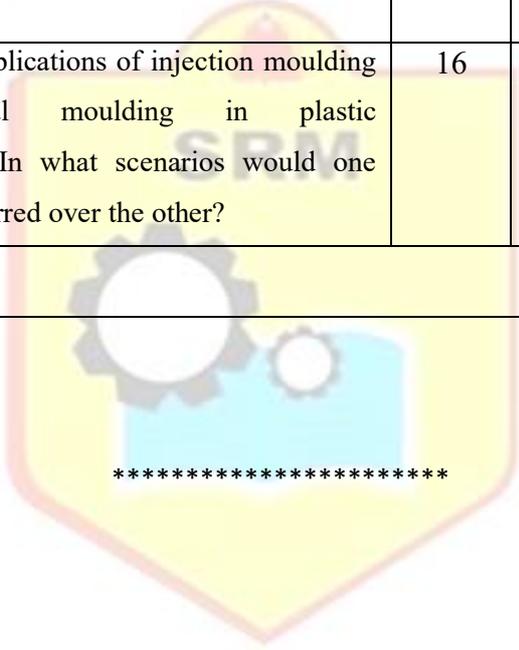
Q.No.	Questions	BT Level	Competence
1.	What is atomization in metal powder production?	BT-1	Remembering
2.	Restate the crushing method for metal powder production.	BT-2	Understanding
3.	What is the purpose of blending in metal powder production?	BT-2	Understanding
4.	Outline the die pressing in metal powder compacting.	BT-2	Understanding
5.	What is iso-static pressing?	BT-1	Remembering
6.	Define the principle of sintering in powder metallurgy.	BT-1	Remembering
7.	What is continuous sintering?	BT-1	Remembering
8.	Clarify the injection moulding process for plastics.	BT-2	Understanding
9.	What is blow moulding used for?	BT-1	Remembering
10.	Recall the rotational moulding process.	BT-2	Understanding
11.	What is film blowing in plastic processing?	BT-1	Remembering
12.	Explain the thermoforming process.	BT-2	Understanding
13.	What are the advantages of atomization for metal powder production?	BT-2	Understanding
14.	Mention one application of die pressing in powder metallurgy.	BT-1	Remembering
15.	How does iso-static pressing benefit powder compaction?	BT-2	Understanding
16.	Identify one key advantage of the sintering process.	BT-2	Understanding

17.	What are the main stages in the continuous sintering process?	BT-2	Understanding
18.	Clarify any one benefit of using injection moulding for plastic parts.	BT-2	Understanding
19.	What types of products are typically made using blow moulding?	BT-1	Remembering
20.	Why is rotational moulding suitable for large hollow parts?	BT-2	Understanding
21.	Recall any one key advantage of film blowing.	BT-2	Understanding
22.	What is a common application of thermoforming?	BT-1	Remembering
23.	How does blending improve the quality of metal powders?	BT-2	Understanding
24.	What is one disadvantage of the crushing method for metal powder production?	BT-2	Understanding
25.	Mention one factor that affects the sintering process.	BT-1	Remembering

PART - B (16 Marks)

Q.No.	Questions	Marks	BT Level	Competence
1.	Explain the process of metal powder production through atomization and crushing. Compare these methods in terms of their effectiveness and applications.	16	BT-2	Understanding
2.	Discuss the significance of blending in powder metallurgy. What are the factors affecting homogeneity in powder blending, and how can they be controlled?	16	BT-3	Applying
3.	Describe the die pressing process in powder metallurgy. Discuss the key factors that affect the quality of compaction.	16	BT-4	Analyzing
4.	Explain iso-static pressing in the context of powder compaction. Compare hot iso-static pressing (HIP) and cold iso-static pressing (CIP).	16	BT-4	Analyzing

5.	Discuss the principles of sintering in powder metallurgy. What are the phases of the sintering process, and how do they influence the final properties of the material?	16	BT- 4	Analyzing
6.	Describe the continuous sintering process. How does it differ from batch sintering, and what are its advantages in industrial applications?	16	BT- 4	Analyzing
7.	Explain the working principle of plastic injection moulding. Discuss its advantages, limitations, and applications in manufacturing.	16	BT-3	Applying
8.	Describe the blow moulding process in plastic manufacturing. What are the types of blow moulding, and how do they differ in terms of application and product design?	16	BT- 4	Analyzing
9.	Discuss the principles and applications of rotational moulding. How does it compare to other plastic processing methods in terms of flexibility and product quality?	16	BT- 4	Analyzing
10.	Explain the film blowing process used in plastic manufacturing. Discuss the key parameters that influence the quality of the film produced.	16	BT- 4	Analyzing
11.	Describe the thermoforming process and its applications. What are the differences between vacuum forming and pressure forming in terms of process and product quality?	16	BT- 4	Analyzing
12.	Discuss the importance of powder particle size and shape in the production of metal powders. How do these characteristics affect the compacting and sintering process?	16	BT-4	Analyzing
13.	Explain the role of additives in powder metallurgy. What types of additives are used in blending, and how do they enhance the properties of the final product?	16	BT-3	Applying
14.	Compare the advantages and limitations of hot iso-static pressing (HIP) and conventional	16	BT-3	Applying

	sintering. In what applications would HIP be preferred over sintering?			
15.	Discuss the environmental and economic implications of powder metallurgy. How does powder production, compacting, and sintering compare to traditional manufacturing methods in terms of sustainability?	16	BT-3	Applying
16.	Explain the differences between cold and hot pressing in powder metallurgy. What are the advantages and limitations of each method?	16	BT-4	Analyzing
17.	Discuss the challenges in producing uniform metal powders through atomization. How do different atomization techniques address these challenges?	16	BT-3	Applying
18.	Compare the applications of injection moulding and rotational moulding in plastic manufacturing. In what scenarios would one process be preferred over the other?	16	BT-3	Applying
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