Unit Wise Question Bank

UNIT-I

S. No		Questions	BT	CO	
Part – A (Short Answer Questions)					
1		What is a casting?	L1	1	
2		What are the advantages of a casting?	L1	1	
3		State the steps involved in casting process.	L2	1	
4		List out the casting processes.	L2	1	
5		What is a cope box in a casting?	L1	1	
6		What is a drag box in a casting?	L1	1	
7		What are the materials used for patterns?	L1	1	
8		What factors controls the selection of pattern material?	L2	1	
9		What are pattern allowances?	L1	2	
10		List the types of patterns used in casting.	L2	2	
Part – B (Long Answer Questions)					
11	a)	Explain the casting process in detail with a neat sketch.	L1	1	
	b)	Explain the cold chamber die casting with a neat figure.	L2	3	
12	a)	What are the advantages of a casting process? Explain.	L1	2	
	b)	Explain the centrifugal casting process with a sketch.	L2	3	
13	a)	Explain the different types of patterns used in a casting process?	L1	2	
	b)	Explain the cooling curve of an alloy.	L2	2	
14	a)	What are the different types of allowances used in a pattern?	L1	3	
	b)	Explain the hot chamber die casting with a neat sketch.	L1	3	
15	a)	Explain the working principle of a cupola furnace.	L2	3	
	b)	Explain the casting defects with neat figures.	L2	2	
16	a)	What is die casting? Explain with a neat figure.	L1	1	
	b)	Explain the shell moulding process with a neat figure.	L2	1	

UNIT-II

S. No	Questions	BT	CO	
Part – A (Short Answer Questions)				
1	What is a welding?	L1	3	
2	What is a gas welding?	L1	4	
3	What is an arc welding?	L2	4	
4	What is the purpose of an electrode in an arc welding?	L1	4	
5	List the types of flames used in welding?	L2	4	
6	What is a back hand welding?	L1	4	
7	What is importance of a flux in a welding?	L1	4	
8	What is forge welding?	L2	4	
9	What is spot welding?	L1	4	

10		What is a thermit mixture used in a welding?	L1	4	
Part – B (Long Answer Questions)					
11	a)	Explain the gas welding process with a neat sketch.	L2	4	
	b)	Explain the process of submerged arc welding process.	L2	4	
12	a)	Explain the different types of flames used welding process.	L2	4	
	b)	What is the importance of a flux coating for electrodes?	L1	4	
13	a)	Explain the gas cutting operation in detail.	L2	4	
	b)	What are the advantages and disadvantages of a submerged arcwelding processes?	L1	4	
14	a)	What is the difference between the gas and arc welding process	L1	4	

	b)	Explain the different types of spot welding processes with neatfigures.	L2	4
15	a)	Explain the edge preparation process in a welding operations.	L2	4
	b)	What is a thermit welding? Explain in detail with a neat figure.	L1	4
16	a)	Explain the forge welding process with a neat sketch.	L2	4
	b)	Distinguish between backhand and forehand welding process?	L2	4

UNIT-III

S. No		Questions	BT	CO	
Part – A (Short Answer Questions)					
1		what is the inert gas used in a welding?	L1	4	
2		what is a TIG stands in a welding?	L1	4	
3		what type of electrode used in a MIG welding?	L1	4	
4		what is a submerged arc welding?	L1	4	
5		what is a friction welding?	L1	4	
6		how heat is obtained in an induction welding?	L2	4	
7		what are eddy currents in a welding?	L1	4	
8		What is an explosive welding?	L1	4	
9		what is the importance of a laser in welding?	L2	4	
10		what is the main difference between soldering and brazing?	L2	4	
Part – B (Long Answer Questions)					
11	a)	Explain the process of TIG welding with a neat sketch.	L2	4	
	b)	What is the importance of a laser beam in welding process?	L2	4	
12	a)	How TIG welding is different from MIG welding? Explain.	L2	4	
	b)	Explain the following terms with figures a) soldering b) brazing	L1	4	
13	a)	Explain the advantages of a friction welding compared to arc welding.	L2	4	
	b)	How HAZ influences the properties of material in welding?	L2	4	
14	a)	What are the different types of friction welding? Explain.	L1	4	
	b)	Briefly explain the various NDT techniques used in welding process.	L2	4	
15	a)	Describe the process of induction welding with a neat figure.	L1	4	
	b)	Discuss the various welding defects with sketches.	L2	4	

16	a)	Explain the importance of Explosive welding process with a neat sketch.	L1	4	
	b)	Describe the process of MIG welding with a neat figure.	L2	4	

UNIT-IV

S. No		Questions	BT	CO	
Part – A (Short Answer Questions)					
1		What is hot working?	L1	5	
2		State the methods of hot working.	L2	5	
3		What is a re-crystallization in hot working?	L1	5	
4		What is forming process?	L1	5	
5		What is strain hardening?	L1	5	
6		What is advantage of a hot spinning?	L2	5	
7		What is bending process?	L1	5	
8		What is a rolling operation?	L1	5	
9		What is the difference between wire drawing and tube drawing?	L2	5	
10		What is a deep drawing?	L1	5	
Part – B (Long Answer Questions)					
11	a)	Explain the advantages and disadvantages of hot working process.	L2	5	
	b)	What is a bending? Explain in detail with a neat sketch.	L1	5	
12	a)	Distinguish between the hot working and cold working processes.	L2	5	
	b)	What is recrystallization? Explain in detail.	L2	5	
13	a)	Describe in detail the process of rolling with a neat sketch	L1	5	
	b)	Briefly explain the terms a) piercing b)blanking c)forming d)bending	L1	5	
14	a)	Explain the different types of rolling mills with neat figures.	L2	5	
	b)	Describe the spinning process with a neat sketch.	L1	5	
15	a)	Explain how tube drawing is different from wire drawing?	L2	5	
	b)	Distinguish between drawing and deep drawing process.	L2	5	
16	a)	Enumerate the applications of press tools in detail	L2	5	
	b)	Explain the changes in micro-structure during the rolling process witha neat figure.	L1	5	

UNIT-V

S. No	Questions	BT	CO	
Part – A (Short Answer Questions)				
1	What is an Extrusion process?	L1	5	
2	What type of stresses the work will undergo?	L1	5	
3	What are the types of extrusions?	L1	5	
4	What is the difference between cold and hot extrusions?	L2	5	

5		What is an impact extrusion?	L2	5	
6		What is a forging process?	L1	5	
7		State forging operations.	L2	5	
8		What is drop forging?	L1	5	
9		What is a swaging?	L1	5	
10		What is a roll forging?	L1	5	
Part – B (Long Answer Questions)					
11	a)	Distinguish between direct and indirect extrusion processeswith neat figures.	L2	5	
	b)	Explain the different forging defects with neat figures.	L1	5	
12	a)	Describe an impact extrusion process with a neat sketch.	L2	5	
	b)	Explain the explosive forming process with a neat figure.	L1	5	
13	a)	Explain the process of hydrostatic extrusion process with a neat figure.	L2	5	
	b)	What is electro-hydraulic forming process? Explain with a neat sketch.	L2	5	
14	a)	Explain the bending process used in an industry with a neat figure.	L1	5	
	b)	What is a cold and hot forging? Explain with a neat figure.	L2	5	
15	a)	Explain the process of electro-magnetic forming process.	L1	5	
	b)	How roll forging is different from rotary forging? Explain.	L1	5	
16	a)	Explain the rubber pad forming process with a neat sketch.	L2	5	
	b)	Explain the difference between the open and closed forging operations.	L2	5	

* **Blooms Taxonomy Level (BT)** (L1 – Remembering; L2 – Understanding; L3 – Applying; L4 – Analyzing;L5 – Evaluating; L6 – Creating)