

Question Bank

CHAPTER – 1:- INTRODUCTION TO MANUFACTURING PROCESS

1. Define manufacturing process.(12-05-2016-(2), 27-11-2014(2))
2. Define Hardness.(12-05-2016-(2),13-6-2014(7))(19/11/2016)(29/04/2017)
3. State the effect of residual stress on manufacturing process.(12-05-2016-(3), 13-6-2014(7))
4. Define Recrystallization Temperature. List and explain factors affecting on it. (12-05-2016-(3), 02-05-2015-(07),17-12-2015-(2),27-11-2014(2)28-11-2013 (6)) (19/11/2016)(29/04/2017)
5. Define ductility (17-12-2015-(2)) (19/11/2016)(29/04/2017)
6. Define (1) Strength (2) Brittleness (3) Elasticity (4) toughness (5) Machinability (6) Ductility (7) Rigidity (17-12-2015-(3), 27-11-2014(2),13-6-2014(7),28-11-2013(8)) (19/11/2016)

CHAPTER – 2:- METAL WORKING PROCESS

- 1 Explain piercing process. (12-05-2016-(2)) (29/04/2017)
- 2 Define cold working process. Give Differences between Hot Working and Cold Working. (12-05-2016-(2), (17-12-2015-(4)) (19/11/2016)(29/04/2017)
3. Give difference between Hot and Cold rolling process. (12-05-2016-(3), (17-12-2015-(4), 13-6-2014(7)) (19/11/2016)
Explain meaning of (i) ingot (ii) bloom (iii) billet (iv) slab (12-05-2016-(3), (17-12-2015-(3), 13-6-2014(7)) (19/11/2016)
5. Explain bulging operation with figure. (12-05-2016-(4))
6. Explain curling operation with figure. (12-05-2016-(4))
Give different types of classification of press list the point selection of press. (12-05-2016-(4), 13-6-2014(7) 28-11-2013(7)) (19/11/2016)
- 8 Explain any four press operations. (12-05-2016-(4))
9. Define following terms:
 1. Mechanical working 2. Ingot 3. Billet 4. Embossing
 4. Swaging 6. Flash Mis match (7) spinning (02-05-2015-(07), (27-11-2014(2), 13-6-2014(7)) (19/11/2016)
10. List various types of rolling mills and explain three high and four high rolling mills with sketch (02-05-2015-(07), (27-11-2014(2), 13-6-2014(7), 28-11-2013(7)) (19/11/2016)(29/04/2017)
11. Define forging process and write the application and advantages of it. (02-05-2015-(07) (19/11/2016)
12. Classify the forging process. Explain various forging operations in brief. (02-05-2015-(07), (27-11-2014(2))(29/04/2017)
13. State different drawing operations and explain tube drawing, wire drawing and blank drawing operation with neat sketch. (02-05-2015-(07), (17-12-2015-(4), (27-11-2014(2), 13-6-2014(7)) (29/04/2017)
14. Define bending. Explain bending operation with neat sketch. (17-12-2015-(2), (27-11-2014(2)) (19/11/2016)
15. Explain factors affecting the drawing Process (17-12-2015-(3))
16. Enlist methods of Extrusion and explain tube extrusion. And give the advantage & limitation (17-12-2015-(3) , 28-11-2013(7))(29/04/2017)
17. List the Defects of forging Process and its reason (17-12-2015-(3)), (27-11-2014(2), 28-11-2013) (19/11/2016)
18. Explain the Punching operation with neat sketch (17-12-2015-(4), (27-11-2014(2))
19. Suggest appropriate metal working process for (1) Bolt Head(2)Pipes (3)Fly wheel (4) presser vessels.(27-11-2014(2))

20. List the metal forming process state the different types and classification of forming process and explain any one of them. **(13-6-2014(7), 28-11-2013(7)) (19/11/2016)**
21. Define Extrusion Coining & Piercing **(19/11/2016)**

CHAPTER – 3:- METAL CASTING

1. List main five step of casting with line diagram. (12-05-2016-(2), 17-11-2014-(2))
2. List types of foundry. (12-05-2016-(2))
3. Classify moulding sand. (12-05-2016-(2))(29/04/2017)
4. List the types of pattern and explain to its. (12-05-2016-(3), 02-05-2015-(07), (17-12-2015-(2) 28-11-2013(7)) (19/11/2016)
5. List advantages and limitation of casting processes. (12-05-2016-(3), (17-12-2015-(2))
6. Explain pattern allowances. (12-05-2016-(3), (17-12-2015-(2) 13-6-2014(7), 28-11-2013(7)) (19/11/2016)(29/04/2017)
7. List the types of core and explain any three. (12-05-2016-(3), (17-12-2015-(2), 27-11-2014(2) 13-6-2014(7))(29/04/2017)
8. Explain properties of moulding sand. (12-05-2016-(4), (17-12-2015-(2))(29/04/2017)
9. Explain casting defects (12-05-2016-(4), (17-12-2015-(2), 17-11-2014-(4) 13-6-2014(7)) (19/11/2016)(29/04/2017)
10. Explain investment casting process. (12-05-2016-(4), 02-05-2015-(07))(29/04/2017)
11. Explain with neat sketch cupola furnace.(12-05-2016-(4),(17-12-2015-(2), 17-11-2014-(4) 13-6-2014(7), 28-11-2013(7)) (19/11/2016)(29/04/2017)
12. Write colour code of pattern as per I.S. (12-05-2016-(3))
13. Enlist various pattern making materials. Write main five required properties of pattern materials. Explain pattern material. 02-05-2015-(07), (17-12-2015-(2), 17-12-2015-(2)) (29/04/2017)
14. List and explain different steps in core making procedure. (02-05-2015-(07))
15. Enlist different electric furnaces and explain induction furnace with neat sketch. (02-05-2015-(07), 17-11-2014-(4))
16. Explain following casting process: 1. Semi centrifugal casting 2. Die casting (02-05-2015-(07)
17. Functions of Runner & Risers in casting process (17-12-2015-(2), 17-11-2014(2))
18. What is pattern? Explain the necessity of patter in casting. (17-12-2015-(2) 17-11-2014-(2))
19. Explain preparation of mould. (17-11-2014-(4))
20. Explain the centrifugal casting process. 28-11-2013(7) (19/11/2016)(29/04/2017)
21. Define Pattern & Mould (19/11/2016)
22. State the special of Shell Moulding Process & state special field of its applications. (29-04-2017)

CHAPTER 5:- METAL JOINING PROCESS.

1. Define welding process. (12-05-2016-(2)) (19/11/2016)(29/04/2017)
2. List out welding defects and give the cause. (12-05-2016-(2), (17-12-2015-(4) 17-11-2014(2))
3. List out the name of destructive and non- destructive welding test. (12-05-2016-(2))
4. Differentiate between soldering, brazing and welding. (12-05-2016-(3), (17-12-2015-(4)) (29/04/2017)
5. Describe different gas flame or oxy acetylene flames with sketch. (12-05-2016-(3), 02-05-2015-(07), (17-12-2015-(2), 17-11-2014(2), 28-11-2013(7)) (19/11/2016)(29/04/2017)
6. State the name of equipment used in arc welding with its function. (12-05-2016-(4), 17-11-2014(2), 28-11-2013(7))
7. Explain arc welding process with neat sketch. (12-05-2016-(4)) (19/11/2016)(29/04/2017)
8. Explain submerged arc welding with figure. (12-05-2016-(4) 13-6-2014(7), 28-11-2013(7))
9. Give advantage and disadvantage and application of adhesive material. (12-05-2016-(4))
10. Write short note on Fasteners. (12-05-2016-(4), 17-11-2014(4))
11. Write safety precautions in welding shop. (12-05-2016-(4), 02-05-2015-(07), 17-11-2014(7))
12. State the procedure of Brazing and Soldering process. (02-05-2015-(07) 13-6-2014(7)) (19/11/2016)(29/04/2017)
13. Write short note on any two: 1.Submerged arc welding 2. Thermit pressure welding 3. Adhesive joining (02-05-2015-(07))(29/04/2017)
15. State the advantages and applications of resistance welding. (02-05-2015-(07))
16. Give full Name of PAW, TIG & SAW (17-12-2015-(2), 17-11-2014(2))
17. Draw the gas welding techniques & equipment (17-12-2015-(4) 13-6-2014(7), 28-11-2013(7)) (19/11/2016)(29/04/2017)
18. Give at list five application of welding process (17-12-2015-(3), 17-11-2014(3))
19. Explain Spot Welding, seam welding and laser beam welding (17-12-2015-(3), 17-11-2014(4) 13-6-2014(7), 28-11-2013(7)) (19/11/2016)(29/04/2017)
20. Draw the neat sketch of Metal Inert Gas (MIG) welding (17-12-2015-(4)) (19/11/2016)
21. Write short note on adhesive material (17-12-2015-(4), 17-11-2014(4))
22. Draw set up of electron beam welding process. (17-12-2015-(3))
23. Differentiate between soft soldering and hard soldering.(17-11-2014(2))
24. Draw four types of weld joints (17-11-2014(2))
25. Write classification of non- pressure welding process. (17-11-2014(3))
26. Explain with neat sketch nacecitty of edge preparation in welding process. (17-11-2014(2))
27. Explain Tig welding process. (19/11/2016)
28. Classify welding process (19/11/2016)(29/04/2017)
29. Describe spinning process sequence with neat sketch. (29/04/2017)
30. Explain Ultrasonic welding (29/04/2017)

