QP Code: NP-18708

	(3 Hours)	[ Total Marks :	80
	<ul> <li>N. B.: (1) Question No. 1 is compulsory.</li> <li>(2) Attemp any three questions out of remaining question.</li> <li>(3) Illustrate your answers with neat sketches.</li> </ul>	s.	
1.	<ul><li>(a) Explain the various casting detects with their causes and remed</li><li>(b) Explain press forging? Discuss its advantages over hammer forg</li><li>(c) Differentiate soldering and brazing.</li></ul>		10 5 5
2.	(a) A cylindrical riser is to be designed for a sad casting mould. To casting, is 7.5 cm × 12.5 cm × 2 cm. The provious operation has the total soliditication time for casting is 96 second. The cylindrical (d/n) = 1. Find the size of riser so that the total soliditication time	ve indicated that drical riser have	10
	<ul><li>(b) Discuss resistance welding process with its applications.</li><li>(c) Diffrentiate open the forging and closed die forging</li></ul>		5
3.	<ul><li>(a) Discuss the various defects in rolled parts.</li><li>(b) Discuss riveted joints state their advantages over other joints.</li><li>(c) Explain submerged are welding with its applications.</li></ul>		10 5 5
4.	<ul><li>(a) Explain the stepwise procedure of powder metallurary in detail.</li><li>(b) Explain the Rotational moulding with its advantages and application.</li><li>(c) Explain die penetrant testing method of NDT.</li></ul>		10 5 5
5.	<ul><li>(a) Explain the screw type injection moulding with neat sketch. Discussifinitations and applications.</li><li>(b) What is powder metalluray? Discuss its advantages, application</li><li>(c) Explain with neat sketches different types of flames generated in</li></ul>	s and limitatins.	10 5 5
6.	Write Short note on (any four):—  (i) Pattern materials  (ii) Welding defects  (iii) Ultrasonic testing  (iv) CO <sub>2</sub> welding  (v) Thread Rolling.		20