QP Code: 50737

03 Hours [80 Marks]	
 N.B. a. Question no.1 is compulsory. b. Attempt any three questions out of remaining five questions c. Figures to right indicates full marks 	
Q1 Attempt any four of the following a. Describe automatic machines. b. What is thread rolling? c. How are seamless tubes manufactured? d. Explain explosive welding e. Differentiate between arc welding and electron beam welding.	[20]
 Q2. a. With a neat sketch explain the principle and working of laser beam welding. Also discuss its advantages, limitations and application. b. Differentiate between the open loop and close loop system. c. Explain gas cutting operation. 	[08] [06]
Q3. a. Compare thermoplastics and thermosetting plastics.b. Describe the desirable properties of moulding sand.c. What are transfer machines?	[08] [06]
Q4. a. Describe types of drilling machines and there application.b. Explain blow moulding process with a neat sketch.c. What is riser? Discuss its types and application.	[08] [06]
Q5. a. Discuss various defects found in welding.b. Define weldability and describe the factors affecting it.c. Differentiate between hot working and cold working processes.	[08] [06]
 Q6. a. What are the constituents of moulding sand? Discuss their function. b. Describe machining the operations performed on lathe machine. c. Define the terms 'Spread', 'Elongation' and 'Draft' with respect to rolling process. 	[08] [06]