B.E. (Aeronautical Engineering) Fourth Semester (C.B.S.)

Manufacturing Process - I Paper – II

	ages : e : Th	2 ree Hours	 	TKN/KS/16/7402 Max. Marks : 80
	Note	es: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	All questions carry marks as indicated. Solve Question 1 OR Questions No.2. Solve Question 3 OR Questions No.4. Solve Question 5 OR Questions No.6. Solve Question 7 OR Questions No.8. Solve Question 9 OR Questions No.10. Solve Question 11 OR Questions No.12. Due credit will be given to neatness and adequate dimensions. Assume suitable data whenever necessary. Illustrate your answers whenever necessary with the help of neat Use of non-programmable calculator is permitted.	sketches.
1.	a)	What an	re different types of patterns used. Explain with neat sketch.	7
	b)	Explain	various types of core materials and its properties, OR	7
2.	a)	Explain	the various types of allowances provided on pattern.	7
	b)	Explain	the desirable properties of moulding sand in brief.	7
3.	a)	What ar	re requirements of ideal gating system.	6
	b)	Explain	the process of centrifugal casting with neat sketch.	7
			OR	
4.	a)	Explain	with neat sketch working of Induction furnace.	7
	b)	Describ	e the process of Investment casting. Also give its application.	6
5.	a)	Explain	with neat sketch the process of Rolling?	7
	b)	Explain	the different types of hammers used in forging?	6
			OR	
6.	a)	Differe	ntiate between cold rolling and Hot rolling?	6
	b)	Explain	the process of Direct and Indirect Extrusion.	7
7.	a)	Describ	e Oxy-acetylene gas welding. Explain the term 'Kerf' & 'Drag'.	7

b)	Explain weldability of metals.	6
	OR	
a)	What is Resistance welding? Give its types?	6
b)	Explain the Defects and Inspection of welding?	7
a)	Explain powder manufacturing technique?	7
b)	Explain self lubricating bearing.	7
	OR	
a)	Describe the production of sintered structural components?	7
b)	What are different types of composite materials and its applications.	7
a)	Define Plastics? Explain polymerisation? Differentiate between thermoplastic and thermosetting plastic?	7
b)	Explain the process of Injection moulding?	6
	OR	
a)	Explain with neat sketch the process of Transfer moulding?	5
b)	Explain with neat sketch the process of Blow moulding?	5
c)	Explain calendaring?	3
	 a) b) a) b) a) b) a) b) 	OR a) What is Resistance welding? Give its types? b) Explain the Defects and Inspection of welding? a) Explain powder manufacturing technique? b) Explain self lubricating bearing. OR a) Describe the production of sintered structural components? b) What are different types of composite materials and its applications. a) Define Plastics? Explain polymerisation? Differentiate between thermoplastic and thermosetting plastic? b) Explain the process of Injection moulding? OR a) Explain with neat sketch the process of Transfer moulding? Explain with neat sketch the process of Blow moulding?