11/12/18

S.C. SemTT Mech

Paper / Subject Code: 51623 / Production Process

SE SemIII (R-2019) "Mechanical"

Nov-Dec 2022

Total Marks- 80

	53 (4) 28 22	J.,
	Duration: 3 Hours	
3) First Question (Q.1) is Compulsory.) Attempt any 3 questions from the remaining 5 (Q.2 - Q.6) questions.) Figures to the right indicate full marks) Proportionate and labelled free-hand sketches would do 	
	Solve any Four out of Six.	20
a)	Differentiate between Hot working and Cold working.	
b)	Discuss the different types of flames in gas welding.	
c)	Explain gear hobbing process	
d)	Explain Internet of Things	
e)	Discuss electric discharge machining	
f)	Classify Production Processes.	1
Q. 2 a)	In a cutting test with 0.3mm flank wear as tool failure criterion, a tool life of	08
	10 mm was obtained at a cutting velocity of 20 m/min taking tool life	
b)	exponent as 0.25, tool life in min at 40 m/min find cuffing velocity	
3.01.78	Draw and explain plunger type injection moulding process with its advantages, Limitations and applications.	12
Q. 3 a)	Explain working, advantages and limitations of laser beam machining.	10
b)	Draw and explain significance of various elements of gating system in sand	10 10
10 July 1	casting.	10
Q. 4 a)	Draw and explain in brief the various welding defects their causes and remedies.	10
b)	Draw and explain various operations perform on lathe machine.	10
25		
Q. 5 a)	Differentiate between TIG and MIG welding.	10
(p)	Draw and explain in brief the various rolling defects their causes and remedies.	10
ີ ດ 6ີ	Write sheet not a self-	
	Write short notes on (Any four) a) Various pattern allowances.	20
10	b) Various steps involved in powder metallurgy.	
	Knee type horizontal milling machine.	
- 9	d) Open die and Closed die forging.	

e) Investment Casting. f) Cloud manufacturing.