(Time: 3 Hours) **Total Marks: 80**

Note:
1. **Question No. 1 is compulsory**.
2. Attempt any **THREE** out of the remaining **FIVE** questions.
3. Assume suitable data if necessary.
4. **Use of Statistical table is allowed.**

Q.1		**Write Short notes with sketch wherever applicable. (Solve any Four)**	**20**
	a	Pattern allowances	
	b	TIG welding	
	c	Advantages and applications of forged products	
	d	Gear manufacturing methods	
	e	Classify manufacturing processes	
Q.2	**a**	Explain different types of gates and risers in detail.	**10**
	b	Compare between SMAW and MIG welding.	**10**
Q.3	**a**	List various sheet metal operations and explain any one with neat sketches.	**10**
	b	Write short not on universal milling machine.	**10**
Q.4	**a**	Draw the neat block diagram of lathe machine and explain functions of any two major parts.	**10**
	b	Explain different step to be followed for making powder metallurgy products.	**10**
Q.5	**a**	Describe the Thermite welding processes with advantages, and applications.	**10**
	b	What is a core? What are the purposes served by a core?	**10**
Q.6	**a**	Compare the following: 1. Planer and shaper 2. Hot rolling and cold rolling	**10**
	b	List various nontraditional machining methods and explain die sinking EDM process.	**10**

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