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Course B.Voc. Program Tool and Die Manufacturing
Subject Tool Maintenance Code ME-703
Semester VI

Time: 03 Hours**Max Marks:70****Instructions to the Students:**

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of short answer type. All questions are compulsory. Each question carries 02 marks.
3. Section B comprises 8 long answer type questions out of which students must attempt any 5. Each question carries 10 marks.
4. Do not write anything on the question paper.

Q.No.	SECTION –A (SHORT ANSWER TYPE QUESTIONS)	Marks
1.	a) Discuss in briefly the balancing of cutting tools.	(2)
	b) Discuss the importance of cutting tool maintenance.	(2)
	c) What are the different method of cleaning and inspection of die and punch?	(2)
	d) Discuss the advantage of mould maintenance scheduling.	(2)
	e) Discuss briefly the die feeling materials.	(2)
	f) Explain in briefly the method of fitting and joining of die in striper plate.	(2)
	g) Explain different methods to control wear of mould materials.	(2)
	h) Define various methods of maintenance of cutting tools.	(2)
	i) List down various method of mould maintenance.	(2)
	j) What are the advantage of press tool maintenance	(2)
	SECTION –B (LONG ANSWER TYPE QUESTIONS)	
2.	Discuss the difference between preventing, predictive and breakdown maintenance.	(10)

3. Discuss the various type of cutting tools material used in metal cutting operations. Explain various methods of resharpening of cutting tools. (10)
4.
 - a) Explain the different welding operation in die maintenance (10)
 - b) Discuss the different methods to control the vibration of cutting tools.
5.
 - a) Explain different welding operation used in jig and fixture. (10)
 - b) Discuss about the alignment of Jig Fixture.
6.
 - a) What are the functions of Jigs and Fixtures? How do they effect economy of operation vis-à-vis costs involved? (10)
 - b) What are the materials used for locating and clamping elements? Discuss
7. Explain the different method of surface treatment of mould materials. (10)
8. Write a short note on (10)
 - a) Die maintenance scheduling & troubleshooting
 - b) Method of corrosion protection of mould
9. What are the various type material used for making die? Explain the different methods of heat treatment used for repair of die. (10)

==END OF PAPER==