

“Please check whether you have got the right question paper.”

- i) QNo.1 from section A & Q No.6 from section B are compulsory.
- ii) Solve any two questions from each section other than Q No.1&Q.No 6.
- iii) Figures to the right indicate full marks.

SECTION-A

Q.1	Solve <u>any five</u> of the following.	10
	<ol style="list-style-type: none"> a) Give significance of chip breakers. b) State the effect of feed & depth of cut on tool life. c) Define mechanization & Automation. d) Enlist the requirements of the cutting tool material e) What is oblique cutting? f) Enlist various lathe operations. g) Explain working principle of lathe. h) Define machine tool. Give its classification. i) Enlist diff. types of milling cutters j) Give classification of milling machine. 	
Q.2	<ol style="list-style-type: none"> a) Differentiate between orthogonal & oblique cutting. b) Explain nomenclature of single point cutting tool 	07 08
Q.3	<ol style="list-style-type: none"> a) Explain any four lathe operations with neat sketch. b) What are diff. lathe attachment ? Explain in detail . 	08 07
Q.4	<ol style="list-style-type: none"> a) Explain types of milling cutters . b) Explain gear cutting procedure on milling machine. 	08 07
Q.5	<ol style="list-style-type: none"> a) Write a short note on cutting fluid b) Explain tool & work holding devices for milling machine. 	07 08
SECTION-B		
Q.6	Solve <u>any five</u> of the following.	10
	<ol style="list-style-type: none"> a) Define abrasive.state its types . b) Classify slotter machines . c) State advantages of plasma arc machining . d) State & explain working principle of planer. e) Give classification of non traditional machining processes. f) Enlist boring defects. g) Give classification of broaching machine . h) Define the term Grade of grinding wheel i) Give applications of ultrasonic machining . j) Give the factors for selecting the grinding wheel. 	
Q.7	<ol style="list-style-type: none"> a) Explain twist drill nomenclature . b) Classify broaching machines .Explain any one. 	08 07
Q.8	<ol style="list-style-type: none"> a) Explain different operations performed on slotter machine . b) Differentiate between shapper, planer & slotter. 	08 07

- Q.9 a) Explain water jet machining.. 08
b) Explain electro discharge machining. Also state its applications 07
- Q.10 a) What is dressing & truing of grinding wheels? Explain in detail . 08
b) Explain jig boring machine. 07