U.S.N	·	·				

Max. Marks: 100



c.

(a) Lapping process

(b) Housing Process.

8.

Time: 3 hrs

P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Fourth Semester, B.E. - Industrial and Production Engineering Semester End Examination; June - 2017 Production Technology - II

Note: Answer *FIVE* full questions, selecting *ONE* full question from each unit. List out the various operations that can be performed on a centre, lathe, explain any two in 10 detail. Explain the following lathe Accessories: 10 (i) Checks (ii) Mandrels. 2 a. With a neat sketch, explain Turret indexing mechanism. 12 Differentiate between a capstan and turret and an engine lathe. 5 b. 3 Define speed, feed and depth of cut related to lathe. **UNIT - II** 3 a. Sketch and explain Radial drilling machine. 10 List out the various drilling operations that can be performed in a drilling machine, explain b. 10 any two in detail. List the main parts of a shaper machine. Explain any two of them. 4 a. 10 b. Write a note on the following: 10 (i) Double housing planer (ii) Open side planer. **UNIT-III** 5 a. Discuss universal Milling machine. 8 b. With a neat sketch, explain up milling and down milling. 12 6 a. List the different types of Milling operations. Explain any two of them in detail. 10 b. Explain index 69 divisions by compound indexing. 10 **UNIT - IV** 7 a. Explain different types of Abrasives. 10 Discuss Horizontal spindle machine with reciprocating table. 7 b.

List the important factors to be considered before selecting a grinding wheel.

Sketch and explain the following, high lighting the field of application:

3

20

UNIT - V

∂ a.	Differentiate between Traditional and Non-Traditional machining processes.						
b.	Discuss the classfication of Non-Traditional machining processes.						
c.	With a neat sketch, explain the principle of AJM with its applications.	9					
10.	Explain with neat sketches, principles, advantages and disadvantages of the following						
	Non-Traditional machining processes :						
	(i) Ultrasonic machining process	20					
	(ii) Laser beam machining process						

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