

SUBJECT CODE:- 227
FACULTY OF ENGINEERING AND TECHNOLOGY
S.E.(Mech/Prod) Examination Nov/Dec 2015
Production Processes-II
(Revised)

[Time: Three Hours]

[Max. Marks: 80]

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

- N.B i) Q. no. 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 any five of the following. 10
- a) Define machine tool & state its functions.
 - b) Define term machinability.
 - c) Define tool life. How it is expressed.
 - d) Differentiate between 3-jaw chuck & 4-jaw chuck
 - e) Enlist different types of milling cutters
 - f) Enlist work holding devices used in milling machines
 - g) What are functions of dividing heads
 - h) Enlist any four types of lathes
 - i) State adverse effects of chip breakers.
 - j) What is mandrel? Give its types.
- Q.2 07
- a) Explain heat sources in metal cutting
 - b) Explain the importance & functions of different tool angles of single point cutting tool. 08
- Q.3 08
- a) With neat sketch explain any two taper turning methods on lathe
 - b) What are different lathe accessories? Explain in detail 07
- Q.4 08
- a) Explain any four operations on milling machine with sketches
 - b) Explain principle parts of milling machine 07
- Q.5 07
- a) Write a short note on ‘Gear hobbing’
 - b) Differentiate between orthogonal & oblique cutting 08

Section – B

- Q.6 Solve any five of the following 10
- a) State working principle of slotter
 - b) Enlist different types of shaper
 - c) Define the term ‘Grit’
 - d) Which are the various operations possible on slotter
 - e) Enlist types of grinding wheel
 - f) Define abrasives, state its type
 - g) Enlist tool holding devices for drilling machines.
 - h) Give applications of plasma Arc machining
 - i) State working principle of electro chemical machining
 - j) What are boring bars.

Q.7	a) Differentiate between shaper planer & slotter	07
	b) Explain jig Boring machine	08
Q.8	a) Classify drilling machines & explain any one with neat sketch	08
	b) Explain advantages & disadvantages of broaching	07
Q.9	a) With neat sketch explain ultrasonic machining. Give its applications	08
	b) Explain laser beam machining.	07
Q.10	a) What is bond? Explain its types with merits & demerits	08
	b) Explain theist drill nomenclature	07