



UH-8029
B. E. II (Sem. III) Examination
May/June – 2012
Manufacturing Processes - I
(New Syllabus)

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

<p>नीचे दर्शायेक निशानीवाणी विगतो उत्तरवही पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : B. E. II (Sem. III)</p> <p>Name of the Subject : Manufacturing Processes - I (New Course)</p> <p>Subject Code No. : 8 0 2 9 Section No. (1, 2,.....): Nil</p>	<p>Seat No. : □ □ □ □ □ □</p> <p style="text-align: center;">Student's Signature</p>
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- 1 (a) Answer the following.
- (1) When four jaw chuck is used ? 2
 - (2) Draw sketches for orthogonal cutting and oblique cutting in turning process. 2
 - (3) Give definitions of cutting speed and depth of cut with respect to lathe. 2
 - (4) Write down characteristics of cutting tool material. 2
 - (5) What is gang drilling ? 2
- (b) Explain twist drill using neat sketch. 5
- (c) Enlist methods of taper turning and explain tailstock set over method. 5
- 2 Answer the following.
- (a) What do you mean by precision boring machine ? Explain their characteristic features. 8
 - (b) Explain the primary and auxiliary motion with reference to machine tool. 7
- OR**
- (b) Draw neat sketch of radial drilling machine and name its parts, explain its working. 7

- 3 Answer the following.
- (a) Explain various alignment tests on milling machine. 7
- OR**
- (a) Enumerate various operations carried out on drilling machine. Explain any four with neat sketch. 7
- (b) What are the difference between engine lathe and turret lathe ? 8
- 4 Answer the following :
- (1) Explain clapper box with reference to shaping. 4
- (2) What is the difference between straight teeth and undercut face teeth profiles with reference of sawing ? 4
- (3) Explain loading and glazing of grinding wheel. 4
- (4) State and explain common instruments tools and accessories used for machine tool testing. 4
- (5) Explain the working of vertical shaper machine with sketch. 4
- 5 Answer the following.
- (a) With help of sketch explain "Hydraulic shaper Mechanism". 8
- (b) Classify broaching machine. Explain any one broaching machine with sketch. 7
- OR**
- (b) Write the advantage, disadvantage and application of broaching machine. 7
- 6 Answer the following.
- (a) Explain standard marking system of grinding wheel. 7
- OR**
- (a) Classify grinding machine and explain centreless grinding machine. 7
- (b) Explain various alignment tests on lathe. 8