



**KC-8029**  
**B. E. - II (Sem. III) Examination**  
**November / December – 2012**  
**Manufacturing Processes - I**  
**(New Syllabus)**

Time : 3 Hours]

[Total Marks : 100

**Instruction :**

<p>नीचे दृशविले निशानीवाणी विगतो उत्तरवही पर अवश्य लખवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : B. E. - 2 (SEM. 3)</p> <p>Name of the Subject : MANUFACTURING PROCESSES - 1 (NEW)</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>
---	--

- 1 Answer the following :
- (1) Enlist the various accessories of lathe and explain any one with neat sketch. 4
  - (2) Explain tailstock set over method. 4
  - (3) Draw sketch of single point cutting tool showing all principal angles. 4
  - (4) Explain Reaming, Boring operation with neat sketch. 4
  - (5) Write down classification of Drills. 4
- 2 Answer the following :
- (a) Draw neat sketch of radial drilling machine and name its parts, explain its working. 7
- OR**
- (a) What are the difference between engine lathe and turret lathe ? 7
  - (b) Draw neat sketch of Horizontal Boring machine and name its parts, explain its working. 8
- 3 Answer the following :
- (a) Draw simple sketch ,of engine lathe. List main parts of it and state functions of each part. 8

**OR**

- (a) Explain the turret indexing mechanism used in capstan lathe. 8
- (b) Enumerate various operations carried out on drilling machine. Explain any four with neat sketch. 7
- 4 Answer the following :
- (1) Write the difference between shaper machine and planer machine. 4
- (2) Explain self sharpening action of grinding machining. 4
- (3) Write in brief the alignment tests on pillar type drilling machine. 4
- (4) Define speed and feed with reference of shaper machine. 4
- (5) How does swivel vise differ from a universal vice? 4
- 5 Answer the following :
- (a) Write the advantage, limitation and application of broaching machine. 7
- OR**
- (a) Draw the neat sketch of broach with all its element. 7
- (b) Explain the characteristic of metal cutting saw blades with sketch. 8
- 6 Answer the following :
- (a) With help of sketch explain "Crank and Slotted Link" quick return mechanics of shaper machine. 8
- OR**
- (a) Explain the standard marking system of grinding wheel. 8
- (b) Explain truing, dressing, loading and glazing on grinding wheel. 7
-