

(Following Paper ID and Roll No. to be filled in your
Answer Books)

Paper ID :148664

Roll No.

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B. TECH.

Theory Examination (Semester-VI) 2015-16

UNCONVENTIONAL MANUFACTURING PROCESSES

Time : 3 Hours

Max. Marks : 100

Note : All parts carry equal marks. Attempt all parts.

Section-A

Answer the parts in short.

(10×2=20)

1. (a) What are conventional processes ?
- (b) Define Turning.
- (c) Define Milling.
- (d) Define grinding.
- (e) What is forming ?

- (f) What is soldering ?
- (g) What is brazing ?
- (h) Define wire drawing.
- (i) What is NDT ?
- (j) What is moulding ?

Section-B

2. Answer any five parts of the following. (5×10=50)

- (a) Name the various unconventional manufacturing processes. Explain any one of them.
- (b) Explain two conventional manufacturing processes.
- (c) Describe Electro Discharge machining.
- (d) What is the principle of ultrasonic machining ?
- (e) Explain Abrasive Jet Machining with applications.
- (f) What are the limitations of conventional manufacturing processes. How they are overcome by unconventional manufacturing process.

- (g) Write note on High Energy forming processes.
- (h) What is ultrasonic machining ? How is it used in welding of materials.

Section-C

Answer any two of the following.

(2×15=30)

3. “Unconventional manufacturing processes are a must in production engineering”. Discuss with examples.
4. Describe the process of Electron Beam machining.
5. Write short notes on three of the following :
- (i) Diffusion
 - (ii) Plasma arc cutting
 - (iii) Water Jet machining
 - (iv) cladding
 - (v) Water forming