17ME35A

(08 Marks)

(06 Marks)

(06 Marks)

(05 Marks)

(05 Marks)

(10 Marks)

(12 Marks)

(08 Marks)

(10 Marks)

(10 Marks)

(06 Marks)

(04 Marks)

(06 Marks)

(08 Marks)

(06 Marks)

(08 Marks)

(06 Marks)

(06 Marks)

(08 Marks)

OR Explain the principle of seam welding with neat sketch. Mention the advantages.

1 of 2

With neat sketch, explain the explosive Welding Process. List the applications.

Sketch and explain the Laser beam welding process. Mention its application.

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## Module-5

a.	Sketch and explain the structure of Weld.	(06 Marks)
b.	How does Shrinkage and residual stresses affect the Welding Joints?	(06 Marks)
c.	Explain briefly welding defects and its causes and remedies.	(08 Marks)

Distinguish between Soldering, Brazing and Welding.
Explain the following NDT methods of inspection:

i) Radiographic inspection ii) Ultrasonic inspe (10 Marks) 10

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ii) Ultrasonic inspection. (10 Marks)