



Reg. No. :

Name :

Fifth Semester B.Tech. Degree Examination, November 2013

(Elective – I)

08.506.7 : ADVANCED WELDING TECHNOLOGY (MPU)

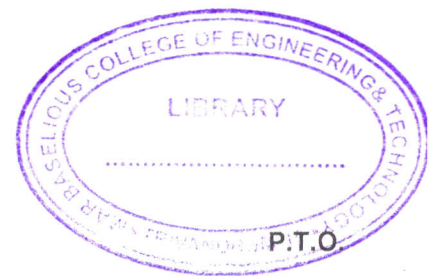
Time: 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions, **each** carries **4** marks.

1. What are the applications of plasma arc welding ?
2. What is meant by radiant energy welding ?
3. Mention the advantages of electron beam welding.
4. Briefly explain explosive welding.
5. What are the variables which control the strength of welding in diffusion welding ?
6. What are the different types of friction welding process ?
7. What is vacuum brazing ?
8. Write short note on adhesive bonding.
9. Explain stop-off in vacuum brazing.
10. Compare metal inert gas welding and plasma arc welding.





PART – B

Answer **any one full** question from **each** Module, **each** carries **20** marks.

Module – I

11. With a neat sketch explain the electron beam welding process. What are the merits and demerits ?

OR

12. a) With the help of schematic diagram explain the working of Laser Beam Welding.
b) What are the applications and limitations of Laser Beam Welding ?

Module – II

13. a) Explain the significance of the key parameters in adhesive bonding.
b) Describe the shielding mechanism in plasma arc welding.

OR

14. a) With the help of schematic diagram explain the explosive welding process.
b) What are the key variables in explosive welding ?

Module – III

15. a) What is deformation welding ?
b) What are parting agents in vacuum brazing ?

OR

16. a) Write short note on friction stir welding.
b) What are the advantages of friction stir welding ?
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