B.Tech. MECHANICAL ENGINEERING (BTMEVI)

Term-End Examination

December, 2013

BIMEE-024 : WELDING ENGG.					
Time: 3 hours Maximum Mark				s : 70	
Note: Attempt any five questions. All questions carry equamarks.					
1.	(a) (b)	Describe plasma arc we applications. Explain explosive wellapplications.	0 0	7+7	
2.	(a) (b)	What metallurgical archanges take place in pweldments? Describe plasma arcapplications.	olain Carbon Steel	7+7	
3.	(a) (b)	Distinguish between Tinduction brazing. Explain the principle and beam welding.	· ·	7+7	
4.	(a) (b)	What are the problems welding of austenitic so what are the remedial at Discuss weldability of care	tainless steels and ctions?	7+7	

- 5. (a) Explain any two methods of non de 7+7 structive testing.
 - (b) Describe tensile testing and discuss the results which can be obtained by tensile testing.
- **6.** (a) Explain on submerged arc welding process. **7+7**
 - (b) Describe MIG welding and give its applications.
- 7. (a) Describe diffusion bonding process and give **7+7** its applications.
 - (b) Write the differences between soldering, brazing and welding.