

Total No. of Pages : 2

Register Number :

7857

Name of the Candidate :

DIPLOMA EXAMINATION DECEMBER 2013.

(WELDING ENGINEERING AND TECHNOLOGY)

130 — ALLIED AND ADVANCED WELDING TECHNIQUES

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

All questions carry equal marks.

1. (a) Explain with a neat sketch of Induction and Dip brazing.
(b) Write short notes on selecting a flux filler material and its placement for brazing.
 2. (a) Discuss in detail about soldering joint design.
(b) Write down the difference between hot plate and ultrasonic soldering.
 3. (a) Explain with a neat sketch of adhesive bonding.
(b) Write short notes on coating built up and hard facing.
 4. (a) Write down the advantages, limitation and application of thermit welding
(b) Explain in detail about the problems and remedies occurred during under water welding.
 5. (a) Explain laser beam welding with a neat sketch.
(b) Write the application, advantages and limitation of thermal cutting process.
 6. (a) Discuss in detail about plasma and tungsten arc cutting.
(b) Describe the process that is most suitable for melting localized area and removing the molten metal with high velocity.
 7. (a) Briefly discuss the various applications of powder spraying and its limitations.
(b) Explain in detail about different material coated by detonation gun spraying techniques.
 8. (a) Explain the principle and operation of metal powder cutting.
(b) What are the different types of cladding technique? Explain any two.
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