

QUESTION BANK 1

Unit 1

- Q1. Briefly mention the process parameters of USM
- Q2. Compare USM with AJM
- Q3. Explain the process of ECM
- Q4. With the help of graph explain the effect of Feed force, abrasive grit diameter, amplitude of vibration, frequency of vibration on material removal rate in an USM process
- Q5. Write the applications of AJM and USM.
- Q6. Classify the unconventional manufacturing process on the basis of source of energy used.
- Q7. Compare EDM with ECM
- Q8. List the advantages and disadvantages of unconventional manufacturing process

Unit 2

- Q1. Give the applications of EBM with reasoning.
- Q2. State the advantages and disadvantages of EBM
- Q3. Explain role of various component used in EBM.
- Q4. State the advantages and disadvantages. List the application of LBM process.
- Q5. What do you understand by LASER? Explain in detail.
- Q6. Explain LBM process with the help of suitable diagrams
- Q7. Mention the advantages and the disadvantages of Photolithography
- Q8. With the help of neat sketch explain negative and positive photoresist. State the need of oxidization.

Unit 3

- Q1. Explain photolithography process.
- Q2. Mention the advantages and disadvantages of underwater welding.
- Q3. What do you understand by underwater welding? How is it possible to weld under the water?
- Q4. What are the qualities required by underwater welding?
- Q5. Write a short note on types of explosive welding. What are the different explosives used for explosion welding?
- Q6. Explain the working principle of Explosive welding.
- Q7. State the advantages and disadvantages of explosive welding

Unit 4

- Q1. Compare LBM and EBM process.
- Q2. State the principle of EBM and state the necessity of vacuum in EBM.
- Q3. State the advantages and disadvantages of EBM
- Q4. Explain LBM process with the help of suitable diagrams
- Q5. What are the critical parameters LBM? State its limitation of LBM.
- Q6. What do you understand by LASER? Explain in detail.
- Q7. Explain photolithography process.

Unit 5

- Q1. Mention the advantages and the disadvantages of Photolithography
- Q2. What do you understand by underwater welding? How is it possible to weld under the water?
- Q3. Explain the classification of underwater welding in detail.
- Q4. What are the precautions a welder should take for performing underwater welding?
- Q5. State the advantages and disadvantages of explosive welding
- Q6. Explain the working principle of Explosive welding.
- Q7. Where do you find the application of explosive welding?
- Q8. Explain the various steps involved in photolithography