Assignment 11

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2020-04-13, 23:58 IST.

1. Which of the following controls the quality of the surface in EDM?
   - Gap between workpiece and tool
   - Type of workpiece
   - Size of the crater
   - Type of tool
   - No, the answer is incorrect.
   Accepted Answer:
   Size of the crater

2. In Electron beam machining, as the electrons strike the work piece;
   - Their kinetic energy is converted into heat.
   - They get scattered.
   - Mechanical motion in work piece takes place.
   - Electromagnetic field existing takes place.
   - No, the answer is incorrect.
   Accepted Answer:
   Their kinetic energy is converted into heat.

3. Electron beam machining is most appropriate for:
   - Machining flat surfaces.
   - Drilling holes and cutting narrow slots.
   - Polishing large area in one step.
   - All of the above.
   - No, the answer is incorrect.
   Accepted Answer:
   Machining flat surfaces.

4. In Electron beam machining, the order in which electrons pass after being emitted by the filament cathode:
   - Anode — Electromagnetic focusing lens — Beam control — Electromagnetic focusing lens — Anode — Beam control.
   - Beam control — Electromagnetic focusing lens — Beam control.
   - No, the answer is incorrect.
   Accepted Answer:
   Anode — Electromagnetic focusing lens — Beam control.

5. Emission current in Electron beam machining depends on which of the following factors?
   - Cathode material
   - Temperature
   - Voltage supply
   - All of the above.
   - No, the answer is incorrect.
   Accepted Answer:
   All of the above.

6. In Electron beam machining, the depth of the penetration of the melting temperature is proportional to the melting temperature 1/year of the workpiece.
   - Directly proportional
   - Inversely proportional
   - Directly proportional to the square
   - Inversely proportional to the square
   - No, the answer is incorrect.
   Accepted Answer:
   Directly proportional

7. Laser Beam Machining process can be carried out when the media for energy transfer between tool and workpiece is:
   - Air
   - Liquid
   - Vacuum
   - Any of the above.
   - No, the answer is incorrect.
   Accepted Answer:
   Any of the above.

8. Which of the following are the properties of a laser?
   - Highly collimated
   - Monochromatic
   - Coherent light beam
   - All of the above.
   - No, the answer is incorrect.
   Accepted Answer:
   All of the above.

9. Laser beam machining uses which type of power sources for machining?
   - Very low power
   - High power
   - Medium power
   - Low power
   - No, the answer is incorrect.
   Accepted Answer:
   High power

10. The effective usable wavelength range (due to power requirement in machining) in laser beam machining is:
    - 0.1-0.70 microns
    - 1.0-13.5 microns
    - 0.6-4.5 microns
    - 0.7-6.0 microns
    - No, the answer is incorrect.
    Accepted Answer:
    0.6-4.5 microns