



ADAMAS UNIVERSITY
END-SEMESTER EXAMINATION : JANUARY 2021
(Academic Session: 2020 – 21)

Name of the Program:	B Tech	Semester:	VII
Paper Title :	Elective –V (Non Traditional Manufacturing)	Paper Code:	EME44105
Maximum Marks :	40	Time duration:	3 Hours
Total No of questions:	8	Total No of Pages:	1
(Any other information for the student may be mentioned here)	Group A is compulsory, any three questions from Group B and any two from Group C		

Answer all the Groups

Group A

Answer all the questions of the following

$5 \times 1 = 5$

1. a) What is spark erosion machining?
b) Give examples of WEDM tool material.
c) How mechanical vibrations in USM is produced?
d) What is Plasma?
e) AFM belongs to which energy domain?

GROUP –B

Answer *any three* of the following

$3 \times 5 = 15$

2. Classify Non Traditional Machining Processes.
3. Explain Plasma generation Process. Write the principle of PAM. (3+2)
4. Write different process parameters of USM process with justification.
5. Explain the working principle of EBM with a neat sketch.

GROUP –C

Answer *any two* of the following

$2 \times 10 = 20$

6. What is unconventional machining process? Explain the reason why the unconventional machining processes are used? Give a comparison of the unconventional process in terms of process, MRR and application. (2+3+5)
 7. What is WEDM? Write down the working principle of WEDM process with a neat sketch. (2+8)
 8. State the advantages and disadvantages of LBM process with some specific application. Give some examples of Lasing material. (8+2)
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