

Exam.Code:0942
Sub. Code: 7063

1019

B.E. (Mechanical Engineering)
Sixth Semester

MEC_606: Non-Conventional Manufacturing

Max. Marks: 50

Time allowed: 3 Hours

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

- I. Attempt the following:-
- What is the use of non-conventional machining processes?
 - State any two applications of water jet machining.
 - Write down process parameters of electrical discharge machining process.
 - Write down the name of electrolytes used in electrochemical machining process.
 - What is the function of dielectric used in electrical discharge machining?
(5x2)

UNIT - I

- II. What is the working principle of ultrasonic machining process with diagram and give the advantages, disadvantages and its application. (10)
- III. What is the principle mechanism of material removal, characteristics and its applications? Explain the Hybrid machining. (10)
- IV. Explain working principle of chemical machining process with its characteristics and applications. (10)

UNIT - II

- V. Explain in detail electrochemical grinding process with its characteristics and neat sketch. (10)
- VI. Write short notes on Ion beam machining and Plasma arc machining. (10)
- VII. Explain working principle of Laser beam machining and Electron beam machining with neat sketch. (10)

x-x-x