

ADVANCED MANUFACTURING PROCESS

TEST 2: The Electro-discharge Machining (EDM) process

- a) The Electro-discharge Machining (EDM) process is widely used in the toolmaking industry. In this context discuss the advantages and the disadvantages of the die sinking EDM process. **[14 marks]**
- b) With the aid of an annotated sketch illustrate a typical EDM single voltage pulse, indicating voltage levels and timescales. Explain why a characteristic pulse has this profile. **[6 marks]**
- c) (Explain the principles and features of the "orbital technique" as applied to the EDM process. **[5 marks]**