



**RNS INSTITUTE OF TECHNOLOGY**

**Autonomous Institution Affiliated to VTU**

**Assignment 2: CLOUD COMPUTING**

## **University Question Bank**

*A compilation of important questions for review*

### **Question 1:**

**What are the advantages?**

Answer: Please provide me with more context! To tell you the advantages of something, I need to know what you are asking about. For example, tell me What are the advantages of...? Electric cars over gas cars? Living in the city vs. the countryside? Using a specific software program? Once you give me more information, I can provide you with a list of advantages.

### **Question 2:**

**limitations and applications of non -traditional machining process es 10 L2 CO1 7 Explain the following selection parameters of Non -Traditional machining process: i. Physical parameters ii.?**

Answer: Limitations and Applications of NonTraditional Machining Processes Nontraditional machining processes NTMPs are gaining prominence due to their ability to shape complex geometries, handle hardtomachine materials, and achieve high precision. However, they also come with certain limitations and are best suited for specific applications. Limitations 1. High Initial Investment NTMPs generally require specialized machines and tools, leading to high



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initial investment costs compared to traditional machining. 2. Lower Material Removal Rate While NTMPs can achieve excellent surface finish and accuracy, their material removal rate is often lower than traditional methods. This can be a significant factor for largescale production. 3. Limited Workpiece Size Certain NTMPs, like EDM and ECM, have limitations in the size and shape of workpieces they can accommodate. 4. Complexity of Operation NTMPs often involve complex process parameters and require skilled operators for successful execution. 5. Environmental Concerns Some NTMPs, like electrochemical machining, generate hazardous waste, requiring proper disposal and environmental safeguards. Applications NTMPs find their niche in various industries, where their unique capabilities outweigh the limitations 1. Aerospace Automotive Manufacturing of complex and intricate parts for highperformance applications, such as turbine blades, jet engine components, and precision gears. 2. Medical Devices Creating precise and intricate implants, surgical tools, and biomedical devices requiring high surface finish and dimensional accuracy. 3. Tool and Die Making Production of intricate dies, molds, and cutting tools for various industries, often involving hardened or difficulttomachine materials. 4. Electronics Microelectronics Machining of delicate and intricate electronic components, such as integrated circuits, semiconductor wafers, and precision components for electronic devices. 5. Research Development Prototyping and experimentation, where complex geometries and difficult materials are involved. Selection Parameters of NonTraditional Machining Processes i. Physical Parameters Material Properties The material's hardness, machinability, thermal conductivity, and electrical conductivity are crucial for choosing the appropriate NTMP. Workpiece Geometry Size The complexity, size, and accessibility of the workpiece directly influence the selection of NTMP. Surface Finish Accuracy The required surface finish, dimensional accuracy, and tolerance range determine the



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best NTMP for the application. Tooling Equipment The availability, cost, and maintenance requirements of the necessary tools and equipment are essential factors. Material Removal Rate The desired rate of material removal and the production volume dictate the choice of NTMP. ii. Other Parameters Cost The initial investment, operational cost, and overall costeffectiveness of each NTMP are essential considerations. Production Volume The intended production volume and the need for flexibility determine the suitable NTMP. Environmental Impact The environmental impact, waste generation, and disposal requirements of different NTMPs are important factors. Safety Safety considerations for the operators, environment, and equipment are crucial for selecting the right NTMP. By carefully evaluating the limitations and applications of each NTMP and considering all the selection parameters, manufacturers can make informed decisions to optimize their production processes and achieve the desired outcomes.

### **Question 3:**

#### **i. Effect of amplitude and frequency ii.?**

Answer: Please provide me with more context! "Effect of amplitude and frequency ii." is incomplete. To help you, I need to know What are you asking about? What phenomenon are you interested in? For example, are you interested in The effect of amplitude and frequency on sound waves? The effect of amplitude and frequency on light waves? The effect of amplitude and frequency on electrical signals? The effect of amplitude and frequency on oscillations? What is the "ii." referring to? Is there a part "i." to this question? Once you provide me with more information, I can give you a helpful answer!