

**PARUL UNIVERSITY**  
**FACULTY OF ENGINEERING & TECHNOLOGY**  
**Diploma Engineering, Mid semester Examination**

**Semester: 5th**  
**Subject Code: 03609331**  
**Subject Name: Tool Engineering**

**Date: 03/08/2022**  
**Time: 7:50 to 9:20**  
**Total Marks: 40**

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

- Q.1 Answer any six out of Ten. (2 Marks Each) (12)**
1. Define Tool Engineering
  2. Define Tool.
  3. Which are the types of cutting tool.
  4. What is Face in Single point cutting tool.
  5. Define tool design.
  6. What is locating?
  7. Define Locators.
  8. Define Clamp.
  9. List out any types of locators.
  10. What is Degree of freedom?
- Q.2 A) Explain Universal Acts. (03)**
- OR**
- A) What is Importance of process planning? (03)  
 B) Write short note on HSS. (03)
- OR**
- B) Write short note on Stellite. (03)  
 C) Draw geometry of Single point cutting tool. (04)
- OR**
- C) Draw geometry of Twist drill. (04)  
 D) Explain Functions of Tool Engineer. (04)
- Q.3 A) Classify cutting Materials. (03)**
- OR**
- A) List out application of cutting tool. (03)  
 B) Explain fool proofing. (03)
- OR**
- B) Explain Ejecting device. (03)  
 C) Explain Nesting locator with figure. (04)
- OR**
- C) List different types of clamp & explain anyone. (04)  
 D) Explain 3-2-1 locating Principle. (04)