**PROBABLE QUESTIONS OF MANUFACTURING TECHNOLOGY**

**4TH SEMESTER MECHANICAL ENGG**

**PREPARED BY: Mr BISWAJIT MISHRA, PTGF in Mechanical Engg**

1. What are different types of Tool Materials and Composition of various tool materials

2. Write down the physical properties of the tool materials and uses ?

3. Explain about the Cutting action of various hand tools such as Chisel, hack saw blade, dies and reamer ?

4. Explain about the Turning tool geometry and purpose of tool angle ?

5. What are the Machining process parameters Explain ?

6. Why Coolants and lubricants in machining are required ?

7. Explain the Construction and working of latheMachine ?

8. Explain the Operations carried out in a lathe ?

9. What are the Safety measures to be followed during machining ?

10. Differentiate between capstan lathe and turret lathe ?

11. Describe Major components and their functions of Lathe ?

12. Draw the tooling lay out for preparation of a hexagonal bolt & bush ?

13. What are the Potential application areas of a shaper machine ?

14. Explain the automatic table feed mechanism ?

15. Explain the construction & working of tool head ?

16. Explain the quick return mechanism through sketch ?

17. State the specification of a shaping machine ?

18. Describe the Application area of a planar and its difference with respect to shaper ?

19. Describe The table drive mechanism ?

20. What are the Types of milling machine and operations performed by them ?

21. What is the Procedure of simple and compound indexing ?

22. Explain the Construction and Working of slotter machine ?

23. Describe about the Manufacturing of grinding wheels and Criteria for selecting of grinding wheels ?

24. Give a detail Description of lapping & explain their specific cutting ?