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B.Tech.(ME) (E-I 2011 Onwards) (Sem.-6) TOOL DESIGN

Subject Code: DE/ME-3.3 Paper ID: [A2424]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly:

- a. What is process engineering?
- b. What is process planning sheet?
- c. What is the function of indexing devices?
- d. Write the main components of die design.
- e. What is tool layout?
- f. What is the function of universal bar equipment?
- g. What are limits?
- h. What are the elements of surface finish?
- i. What are compound dies?
- j. What is gauge makers tolerance?



SECTION-B

- 2. Explain the contents and steps of process planning.
- 3. What is the function of die blocks? Discuss their design procedure.
- 4. Write the characteristic of turret lathe.
- 5. Write the procedure estimating the cost of product.
- 6. Discuss the limitations of limit gauging.

SECTION-C

- 7. Write the principle of jig. Discuss the standard parts of jig design. Show and classify the various types of drilling jigs.
- 8. Differentiate between capstan and turret lathes.
- Write note on the following finishing operations:

 a. Lapping

 b. Honing 9.

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