

Roll No.

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Total No. of Pages : 2

Total No. of Questions : 09

B.Tech. (AE) (Sem.-4)
MANUFACTURING PROCESSES
Subject Code : AE-204
Paper ID : [A0710]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

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

SECTION-A

1. Write briefly :

- (a) Define Pattern.
- (b) Name the different types of furnaces.
- (c) Define the principle of gas welding.
- (d) Give the four names of welding defects.
- (e) Define wire drawing process.
- (f) What is blanking?
- (g) What is rake angle?
- (h) Define drilling operation.
- (i) What 'EDM' stands for?
- (j) What do you mean by core baking?

SECTION-B

2. Describe in brief about the vacuum casting.
3. Differentiate between soldering and brazing.
4. What is extrusion process? Explain its principle and working.
5. What are the main work holding devices used on a lathe machine? Describe two in brief.
6. Differentiate between surface and centreless grinding.

SECTION-C

7. (a) What is indexing ? Differentiate between compound and differential indexing.
(b) Differentiate between TIG and MIG.
8. Explain the riser and gating system design in detail.
9. Write short note on ANY TWO of the following :
 - (a) Rolling
 - (b) Shaper
 - (c) Cutting tool materials