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**Total No. of Pages: 02**  
**Total No. of Questions: 09**

**B. Tech. (Sem.-3<sup>rd</sup>)**  
**MANUFACTURING PROCESS**  
**Subject Code: BTAE-304**  
**Paper ID: A1149**

**Time: 3 Hrs.****Max. Marks: 60****INSTRUCTIONS TO CANDIDATE:**

1. Section –A, is Compulsory.
2. Attempt any four questions from Section-B.
3. Attempt any two questions from Section-C.

**Section –A****(10x2=20)****Q.1.**

- (a) What is the use of a gating systems in casting process?
- (b) Why does the shell mould casting gets its name?
- (c) What does “Plasma” refer to in plasma arc welding process?
- (d) Under what condition, spatter gets formed in welding process?
- (e) What is the basic difference between drawing and deep drawing process?
- (f) Give two Practical examples of products formed through the spinning process.
- (g) What is the purpose of coolants during the machining process?
- (h) Discuss the function performed by indexing .
- (i) What are the main applications of abrasive flow machining process?
- (j) What is the main advantage of chemical machining process?

**Section –B****(4x5=20)**

- Q2.** Discuss the underlying principle and applications of projection welding.
- Q3.** What is electroslog welding? Discuss its underlying principle and main applications.
- Q4.** Discuss the basic principle and general procedure involved in plastic moulding. What is the main benefit of this process.

- Q5.** With a neat and labeled diagram explain the geometry of a single point cutting tools.  
Discuss briefly the significance of each cutting tool angle.
- Q6.** Discuss the underlying principle general procedure and main applications of the extrusion process.

**Section –C**

**(10x2=20)**

- Q7.** Discuss the working principle, applications and main Limitations of the electric discharge machining process.
- Q8.** List the main defects that can appear during the casting process, Discuss their causes and remedies.
- Q9.** Discuss the purpose, characteristics and applications of the main types of grinding processes.

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