

II B. Tech II Semester Supplementary Examinations, February - 2022
PRODUCTION TECHNOLOGY
 (Automobile Engineering)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions each Question from each unit
 All Questions carry **Equal** Marks

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- 1 a) Write short note on (i) loose piece pattern (ii) Match plate pattern. [8M]
 b) What are the design considerations for a good pattern? [7M]
- Or
- 2 a) What are the factors must be taken into consideration while selecting pattern materials. [8M]
 b) Explain about (i) clay content test and (ii) Moisture content test performed on sand. [7M]
- 3 a) Explain the construction and working of electric arc furnace? [8M]
 b) Explain the casting defects caused due to improper mould drying and core baking? [7M]
- Or
- 4 a) With a neat sketch describe the construction and working of Semi Centrifugal casting process. [8M]
 b) Explain various zones of cupola furnace. [7M]
- 5 a) What are different types of flames occur in welding and give their uses. [8M]
 b) With a neat diagram explain Explosive welding. [7M]
- Or
- 6 a) Write any four differences between MIG and TIG welding. [8M]
 b) Explain the process of Thermit welding with a diagram. [7M]
- 7 a) Explain the working of Drop Forging process with a sketch. [8M]
 b) Write the merits and demerits of hot working and cold working. [7M]
- Or
- 8 a) Describe about hydrostatic extrusion process in detail. [8M]
 b) Explain about tube drawing process. [7M]
- 9 a) What are the factors affecting shearing operation? Explain. [8M]
 b) What are the different types of presses used in manufacturing industry? [7M]
- Or
- 10 a) What is spring back? Why it occurs and explain how to rectify it. [8M]
 b) Explain the process of electro hydraulic forming process. [7M]

