Name and surname:

No:

Marmara University - Engineering Faculty Department of Metallurgical and Materials Engineering MSE 432 - Foundry Technology (Final)

- Q.1 a) List "SandAdditives". b) Explain Clays. c) Explain their effect on green compression strength.
- Q.2 Explain "Cold and Hot Chamber Die Casting Processes".
- Q.3 Explain "Expanded Polystyrene (EPS) Molding Processes".
- **Q.4** Explain "Carbon Equivalence" and "Degree of Saturation". (And its effect on solidification of cast irons and microstructures).
- **Q.5** Explain refinement of hypereutectic and hypoeutectic Al-Si Alloys and its effect on mechanical properties.
- **Q.6** Explain microstructures of ductile, gray, and compacted cast irons. How can you control the matrix structure.