

(Following Paper ID and Roll No. to be filled in your Answer Books)

PAPER ID :**Roll No.**

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B.TECH.

Theory Examination (Semester-VI) 2015-16
PRODUCTION TECHNOLOGY & AGRICULTURE MACHINERIES

Time : 3 Hours**Max. Marks : 100****SECTION: A****Q.1 Attempt all parts. Write answer of each part in short.****2*10=20**

- Enlist the various material used in development of different parts of agricultural machinery.
- What is structural steel?
- Define hardness of material.
- Draw stress-strain curve for mild steel.
- What is honing?
- Enlist the name of atleast five agricultural machinery manufacturers.
- What is EDM (Electro Discharge Machinery)?
- What is atomization?
- Define milling & crushing.
- Write the objective of heat treatment process.

SECTION: B**Q.2 Attempt any five Questions from this section:****5*10=50**

- What do you mean by powder metallurgy? Draw the process flow chart and also write advantages and limitations.
- Explain annealing and normalizing process.
- What is carburizing? Explain the different methods of carburizing.
- What is chemical vapour deposition (CVD)? Enlist different types of CVD process. Explain any one.
- Discuss the different factors for installation of plant layout.
- What is quality management? Explain quality conformance through second and third party inspection.
- Explain hot working and cold working process..
- What do you mean by tool-radius compensation?

SECTION: C**Attempt any two questions from this section:****2*15=30**

- Q.3
 - What do you mean by CNC code syntax? Explain different types of CNC codes.
 - What do you mean by loop and unconditional jump? Explain with suitable examples.
- Q.4
 - What do you mean by economic feasibility of project report?
 - Explain needs and chronological development of cutting tools materials. Also explain automatic tool changer.
- Q.5
 - What are advanced manufacturing techniques? Explain manufacturing system.
 - Write short notes on any two of the following-
 - Jigs and fixtures
 - EDM principle
 - Electrolysis

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