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B. VOC.
(SEM V) THEORY EXAMINATION 2021-22
CAD & CAM

Time: 3 Hours**Total Marks: 30****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief.****1 x 6 = 6**

Qno.	Question	Marks
a.	Define CAD.	1
b.	Name the various types of CAD systems.	1
c.	Name the various types of parts classification and coding systems.	1
d.	Name the various components of NC system.	1
e.	Name the various types of coordinate systems used in NC part programming.	1
f.	Name the various types of FMS.	1

SECTION B**2. Attempt any three of the following:****3 x 3 = 9**

Qno.	Question	Marks
a.	Discuss the CIM Wheel.	3
b.	What do you understand by term "Group Technology"? Discuss the Optiz system of parts classification and coding.	3
c.	Differentiate between NC and CNC Machines.	3
d.	Explain various types of motion control system used in NC machines.	3
e.	What do you understand by ASRS? Explain.	3

SECTION C**3. Attempt any one part of the following:****1 x 3 = 3**

Qno.	Question	Marks
a.	Explain various type of Geometric Modeling Techniques.	3
b.	Discuss the advantage of CAD.	3

4. Attempt any one part of the following:**1 x 3 = 3**

Qno.	Question	Marks
a.	What do you understand by term CAPP? Mention its types and explain any one of these.	3
b.	Explain Master Production Schedule (MPS) in detail.	3

5. Attempt any one part of the following:**1 x 3 = 3**

Qno.	Question	Marks
a.	Explain DNC in detail.	3
b.	Explain construction and working principle of turning center.	3

6. Attempt any one part of the following:**1 x 3 = 3**

Qno.	Question	Marks
a.	Explain preparatory functions used in NC part programming.	3
b.	Explain interpolation.	3

7. Attempt any one part of the following:**1 x 3 = 3**

Qno.	Question	Marks
a.	What is ROBOT? Define it and explain basic robot motions.	3
b.	Explain Computer Integrated Material Handling.	3