

2112E111

BACHELOR OF VOCATION
Automotive Manufacturing
Subject: Computer Aided Design
Subject Code: BBME-201
Semester: Third
December 2021
Theory (External): 35 Marks
Time: 03 Hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 marks.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number

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SECTION -A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x1=10 Marks)

- A. Define the application of CAD
- B. Discuss the tools of CAD
- C. Discuss the commands of CAD software
- D. Define the applications of DVST
- E. Define the applications of Raster display
- F. Define display
- G. Define pixel value
- H. Define transformation
- I. Define interface
- J. Define the geometry and topology

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2. Differentiate between model coordinate system and screen coordinate system with suitable example
 3. Differentiate between 2D and 3 D transformation with suitable example
 4. Explain the different types of projections with suitable example
 5. Explain the construction detail of B-Supline curve with neat diagram along with suitable applications
 6. Differentiate between parabola and hyperbola with suitable example and neat diagrams
 7. Explain the concept of surface representation with suitable diagram and example
 8. Discuss the constructional detail of biezler surface with neat diagram and also mention its applications

==END OF PAPER==

SECTION -B (ESSAY TYPE QUESTIONS)
(5x5=25 Marks)

1. Explain the concept of coordinate system with suitable example