

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur
Regular/Back Exam-2075, Falgun/Chaitra

Program: Diploma in Computer Engineering
Year/Part: III/I (2010)
Subject: Computer Graphics (Auto CAD)

Full Marks: 80
Pass Marks: 32
Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt (Any Eight) questions.

1. Define computer graphics and its applications in different fields. What are the difference between computer graphics and image processing? [10]
2. Derive mid-point circle drawing algorithm. [10]
3. Derive the DDA line drawing algorithm for $m < 1$ and $m > 1$. [10]
4. What is perspective projection? Explain 3-D translation and rotation with example. [10]
5. Write the principle and characteristics of raster and vector display technology. Explain the working principle of LCD monitor. [5+5]
6. Explain animation and morphing with example. Write the principle of interactive user dialogs. [5+5]
7. a) Define clipping. Write about Cohen-Sutherland line clipping with appropriate figure. [5]
b) Define anti-aliasing. How can we control it? [5]
8. Explain surface detection technique in brief. Write short notes on Gouraud shading. [6+4]
9. Write Short Notes on (Any Two) [2x5=10]
a) Application of GUI
b) Phong shading
c) Output Hardware

Good Luck

Sample Question Paper Diploma Computer Engineering

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Sample Question Paper Diploma Computer Engineering:

Sample Question Paper Diploma Computer Engineering: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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