3. Outline the purpose of the memory address register (MAR) in the central processing unit (CPU). [2]

4. Outline why single processor computers may not be able to render 3D graphics effectively. [2]

5. (a) Outline **one** advantage of using virtual memory. [?]

   (b) Outline **one** disadvantage of using virtual memory. [?]

6. State the hexadecimal equivalent of the following binary number:

   11011111 [1]

7. Construct the truth table from the following logic circuit. [?]



8. Outline **one** method of collecting information from stakeholders concerning the requirements for a new system. [2]

9. Identify **two** characteristics of a personal area network (PAN). [2]

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**Team Prabhat**

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*Computer Science for the IB Diploma* Carl Turland,Ioana Ganea,Paul Baumgarten,2025-04-24 Developed in cooperation with the International Baccalaureate Ensure students gain clarity confidence and an in depth understanding to master the updated Computer Science syllabus for both Higher Level HL and Standard Level SL Closely following the structure of the revised guide this new resource fully covers the updated assessment format and essential topics organised by the two key themes Concepts in Computer Science and Computational Thinking and Problem Solving Provide complete coverage of the latest syllabus set for first assessment in 2027 with a student focused resource written by experienced educators and examiners Empower students to navigate their coursework with confidence through an engaging inquiry based approach that emphasises conceptual understanding Streamline your lesson planning the unit and chapter titles match syllabus sections precisely to save you time and enhance learning efficiency The resource also provides flexibility in choice of programming language to cater to diverse teaching and learning preferences Support students success with essential tools including clear definitions of key terms practical top tips cross course questions and highlights of common mistakes to avoid Build confidence through engaging practical activities chapter summaries and targeted review questions that are designed to create a deep understanding of the subject matter NTA CUET UG 2024 Exam | Biology | 2000+ NCERT Based Topic-wise MCQs | Useful for DU JNU Jamia Milia BHU AMU CHS and All Other Central University Team Prabhat,2024-05-20 The book has been written in response to the lack of quality books in the market on this subject While there are many books available on this topic they often lack quality content Recognizing the challenges faced by students such as the absence of authentic material a lack of content based on the exam pattern and the complexity of subjects this book includes high quality content Main Features of the Book Based on Latest Exam Pattern Syllabus Based on the Class 12 NCERT syllabus Designed for students preparing for the NTA CUET Common University Entrance Test 2200 MCQs with detailed Solutions *Introducing the IB Diploma Programme* Marc Abrioux,Jill Rutherford,2013-02-14 Schools wishing to introduce the IB diploma programme are faced with major investment in terms of time effort and money in order to become authorised This manual is a resource for schools already offering the diploma as well as for prospective diploma schools NTA CUET UG 2024 Exam | Mathematics | 2000+ NCERT Based Topic-wise MCQs | Useful for DU JNU Jamia Milia BHU AMU CHS and All Other Central University Team Prabhat,2024-05-20 The book has been written in response to the lack of quality books in the market on this subject While there are many books available on this topic they often lack quality content Recognizing the challenges faced by students such as the absence of authentic material a lack of content based on the exam pattern and the complexity of subjects this book includes high quality content Main Features of the Book Based on Latest Exam Pattern Syllabus Based on the Class 12 NCERT syllabus Designed for students preparing for the NTA CUET Common University Entrance Test 2200 MCQs with detailed Solutions **NTA CUET UG 2024 Exam | Chemistry | 2000+ NCERT Based Topic-wise MCQs |**

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