

Chapter 5: Processor fundamentals: Answers to coursebook questions and to Worksheet questions

Syllabus section covered: 4.1

From the coursebook

Extension question 5.01

- 1 Memory capacity, hard disk capacity and processor clock speed.
Note that almost certainly the GB and TB will be based on the old-fashioned use of $1K = 1024$.
- 2 A clock speed of 1.7 GHz implies $1 \div (1.7 \times 10^9)$ s as the time between clock signals. This is 5.9×10^{-10} s, which is the minimum time period that could separate successive activities.

Extension question 5.02

There is no correct answer here. It is possible that your technical staff can provide some technical specification data.

Exam-style Questions

- 1
 - a Accumulator (1)
 - b
 - i It stores the address of a memory location or an I/O component about to be used (for reading or writing). (1)
 - ii An address as a binary value. (1)
 - iii The program counter (PC). (1)
 - c
 - i It holds the instruction currently being executed. (1)
 - ii An instruction in a binary representation. (1)
 - iii Memory data register/memory buffer register (no marks given for acronyms). (1)
 - d 1 mark each for any of the following. (max 5)
 - MDR contains a binary code that has been retrieved from memory using the data bus, may be a datum, an address or an instruction, acts as a buffer to handle different speeds within the CPU and on the data bus.
 - MAR contains an address used to identify the memory location where data is to be stored or from where data is to be retrieved, the address is transferred to the MAR from the PC
- 1 mark for each of the following. (max 6)

Chapter 5 Answers Pbworks

Tara Young



Chapter 5 Answers Pbworks:

Reference and Information Services Kay Ann Cassell, Uma Hiremath, 2023-01-17 From the ongoing flood of misinformation to the swift changes occasioned by the pandemic a myriad of factors is spurring our profession to rethink reference services Luckily this classic text is back in a newly overhauled edition that thoughtfully addresses the evolving reference landscape Designed to complement every introductory library reference course Cassell and Hiremath's book also serves as the perfect resource to guide current practitioners in their day to day work It teaches failsafe methods for identifying important materials by matching specific types of questions to the best available sources regardless of format Guided by a national advisory board of educators and experts this thoroughly updated text presents chapters covering fundamental concepts major reference sources and special topics while also offering fresh insights on timely issues including a basic template for the skills required and expectations demanded of the reference librarian the pandemic's effect on reference services and how the ingenuity employed by libraries in providing remote and virtual reference is here to stay a new chapter dedicated to health information with a special focus on health equity and information sources selecting and evaluating reference materials with strategies for keeping up to date a heightened emphasis on techniques for evaluating sources for misinformation and ways to give library users the tools to discern facts vs fake facts reference as programming readers advisory services developmentally appropriate material for children and young adults and information literacy evidence based guidance on handling microaggressions in reference interactions featuring discussions of cultural humility and competence alongside recommended resources on implicit bias managing assessing and improving reference services and the future of information and reference services encapsulating existing models materials and services to project possible evolutions in the dynamic world of reference

Creating Meaningful Museum Experiences for K-12 Audiences Tara Young, 2021-10-30 *Creating Meaningful Museum Experiences for K 12 Audiences How to Connect with Teachers and Engage Students* is the first book in more than a decade to provide a comprehensive look at best practices in working with this crucial segment of museum visitors With more than 40 contributors from art history science natural history and specialty museums across the country the book asks probing questions about museum school relationships suggests new paradigms and offers creative approaches Fully up to date with current issues relevant to museums work with schools including anti racist teaching approaches and pivoting to virtual programming during the pandemic this book is essential for both established and emerging museum educators to ensure they are current on best practices in the field The book features four parts *Setting the Stage* looks at the how museums establish and finance K 12 programs and how to engage with the youngest audiences *Building Blocks* considers the core elements of successful K 12 programming including mission alignment educator recruitment and training working with teacher advisory boards and anti racist teaching practices *Questions and New Paradigms* presents case studies in which practitioners reconsider established approaches to museums work with

schools and engage in iterative processes to update and improve them from evaluating K 12 museum programs to diversifying program content to prioritizing virtual programming Solutions and Innovative Models offers examples of programs that have been reimagined for the current landscape of museum school collaborations including practicing self care for teachers and museum educators investing in extended school relationships over one time visits and highlighting the stories of enslaved people who lived at historic sites

Dances with Spirits Calvin Helin,2014-07-01 Scientific and technological advances have provided the means for destroying planetary life but does humanity have the wisdom necessary to choose survival While facing impending danger cultures worldwide can benefit by exploring tried and true perspectives on humankind s place in the world One proven measure for greater balance comes through reclaiming the spirit infused views that ensured the survival of our ancestors for millennia

Language Teacher Development in Digital Contexts Hayriye Kayi-Aydar,Jonathon Reinhardt,2022-01-15 This volume demonstrates how various methodologies and tools have been used to analyze the multidimensional dynamic and complex nature of identities and professional development of language teachers in digital contexts that have not been adequately examined before It therefore offers new understandings and conceptualizations of language teacher development and learning in varied digital environments The collection of pieces illustrates a field that is recognizing that digital environments are the contexts of teacher learning not simply the object of it and that issues of identity and agency are central to that learning As an excellent resource on digital technologies CALL gaming or language teacher identity and agency the book can be used as a textbook in various applied linguistics courses and graduate seminars

The New Rules of Marketing & PR David Meerman Scott,2013-07 Filled with case studies and real world examples this guide presents up to date marketing strategies for using the Internet and social media to promote products and services directly to the widest audience

Information Systems for Business France Bélanger, PhD,Craig Van Slyke,2011-11-29 Includes bibliographical references and index

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