Paper 4 – Information Technology Applications in Accounting

Aim

The aim of this paper is two-fold. The first is to assess students' knowledge and skills in the hands-on practice of computerised accounting work. The second is to assess the application of computer-based technologies for processing, presenting and managing accounting data as well as documents.

Content

Competence Required	Activity to Develop and Demonstrate Competence	Indicative Level
Understanding of the selection and implementation of computerised accounting systems and	 Understand organisational context of systems development, system analysis, conventional wisdom on systems development lifecycle, development of prototype, and feasibility study 	1
software	 Understand systems design, implementation and operation 	1
	 Outline the accounting information system development strategies: the selection of packaged software, customised software, and/or modified software 	2
	 Understand the role of accounting information system in e-business 	2
	 Understand the needs, benefits and risks of outsourcing computerised accounting work 	1

1. Selection and implementation of computerised accounting systems and software

2. Human information processing of computerised accounting systems

Competence Required	Activity to Develop and Demonstrate Competence	Indicative Level
Understanding of the human information processing mechanism in handling	• Describe the factors of human computer interaction: ergonomics, interaction styles, and the context of interaction	1
computerised accounting work	• Describe the uses of task analysis in handling computerised accounting routines: participation in requirements capture, system design and interface design	1
	 Understand the uses of the help function and documentation of a computerised accounting system 	1

3. System for financial recording

Competence Required	Activity to Develop and Demonstrate Competence	Indicative Level
Skill in the application of a computerised financial accounting system for	 Demonstrate and apply skill in the operation of the financial book-keeping system: 	
financial reporting	 create specific types of accounts under the given structure of chart of accounts 	2
	 conduct ledger transactions in the general ledger, receivables ledger and payable ledger. Details include master file creation, end of period adjustments and closing 	3
	 create a customer file: handle billing transactions for invoices, fill backorders and sales returns processing 	3
	 create a vendor file: conduct transactions for purchase orders, merchandise received and purchase returns processing 	3
	 handle cash transactions for receipt and payment processing 	3
	 produce financial reports covering chart of accounts, aging report, trial balance, profit and loss statement, balance sheet 	3
	 perform periodic adjustments during month-end and year-end, including entries for accruals, prepayment and depreciation 	2

Competence Required	Activity to Develop and Demonstrate Competence	Indicative Level
Skill in the application of spreadsheet software for financial document preparation and costing analysis	 Demonstrate ability and skill in spreadsheet applications with Excel using referenced cells, logical functions, statistical functions, financial functions, and graphs to: 	
	 perform financial result analysis in actual, static budgeted and flexible budgeted formats 	3
	- conduct financial statement analysis	3
	 conduct profit volume analysis and pricing decision in variable costing format 	3
	 perform discounted cash flow analysis for financial management 	2
	 forecast inventory levels with moving average analysis for stock control 	2
	- compile operation and sales data	2
	 Generate a PivotTable report in variable costing format for accounting decision-making 	3

4. System for accounting operations, control and decision-making

5. Control and security

Competence Required	Activity to Develop and Demonstrate Competence	Indicative Level
Understanding of the concepts of computerised	 Understand data security, nature and sources of threats to computer systems 	2
accounting data control and security	 Outline the types of security design, contingency planning and operation 	2
	Understand the types of computer crime	2
	 Understand the computer-based information systems control 	2
	 Describe systems back-up procedures for disaster recovery 	2

Examination format:

Section A	10 – 25 multiple choice questions	25 marks
Section B	 2 questions on hands-on computerised accounting routines System for financial recording System for accounting operations, control and decision-making 	75 marks
		 100 marks
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The examination time is 3½ hours, which includes the time needed for basic data input and report printing. Students will use DacEasy Accounting for Windows and Microsoft Excel to answer two questions in the examination papers; in addition DacEasy will be used to answer the "System for financial recording" question.

Essential reading:

Author	Title	<u>Publisher</u>
Lee, S. S. P. and Li, G. K.H.	Information Technology Applications in Accounting (2004 Edition)	HKIAAT (formerly HKAAT)
Smith, G. N.	Excel Applications for Accounting Principles (2 nd Edition)	South-Western
Fulford, James	The Accountant's Guide to Advanced Excel	Oak Tree Press
Romney, M. B. and Steinbart, P. J.	Accounting Information Systems (10 th Edition)	Prentice Hall
Dix, A., Finlay, J., Arowd, G. and Beale, R.	Human – Computer Interaction (3 rd Edition)	Pearson Education Ltd

Additional reading:

<u>Author</u>	Title	<u>Publisher</u>
Klooster, Dale H. and Allen, Warren W.	Integrated Accounting for Windows (5 th Edition)	South-Western
Smith, G. N.	Excel Spreadsheet Applications Series for Cost Accounting (2 nd Edition)	South-Western