

HONG KONG EXAMINATIONS AND ASSESSMENT AUTHORITY
HONG KONG CERTIFICATE OF EDUCATION EXAMINATION 2004
INFORMATION TECHNOLOGY PAPER 3
COURSEWORK LIST

Attempt **ONE** coursework only.

1. An e-Learning Web Site

The theme of the web site is to enhance the learning of a selected topic related to computer networking. A candidate is required to develop the web site which should include the following functions:

- (i) providing basic information of the selected topic;
- (ii) including some multimedia components;
- (iii) providing interactive learning activities;
- (iv) providing feedback to learners;
- (v) providing links to other resources on the Internet.

2. An Advisory System for Personal Computer (PC) Buyers

A candidate is required to develop a system assisting people to choose and buy a PC. The system should be able to ask a series of questions to understand the users' requirements and give recommendations. A user can:

- (i) build a PC by choosing various PC components;
- (ii) build a PC based on other criteria, e.g. price, performance, specifications, etc.;
- (iii) replace or remove a component in the recommended configuration and see the price difference.

3. A Web Site for a Small Business Enterprise

A candidate is required to develop a web site for a small business. The web site should include the following functions:

- (i) marketing the products or services provided by the enterprise;
- (ii) accepting orders from customers;
- (iii) providing some transaction methods between the enterprise and the customers.

Guidelines for the Coursework

The aim of this paper is to assess the candidate's ability to complete a coursework on Information Technology. Candidates are required to produce a report which will demonstrate their ability to analyse a problem, identify requirements, and make appropriate use of information technology in providing solutions which they will design, implement, test and evaluate.

1. Candidates should analyse a situation and decide on the tasks which will need to be completed. They should specify the input and output requirements and make appropriate use of information technology tools to solve the problem.
2. Candidates should clearly spell out the resources required, input format, output format, data collection and manipulation.
3. The report should include the following contents whenever applicable :
 - (a) description of problem and identification of requirements
 - (b) justification of choice of information technology tools
 - (c) input format and output format
 - (d) user instructions
 - (e) program structure and operational flowcharting
 - (f) data manipulation and information handling
 - (g) testing and evaluation
 - (h) conclusion and discussion
4. Candidates must include in their report the sources from which they chose information technology tools and acknowledge any reference materials which they used.
5. The report should be written or printed on A4 size paper. All pages should be numbered and then bound together. Graphs, drawings and diagrams must be clearly labelled and inserted in appropriate places in the text. On the cover of the report, the candidate's number should be the only source of identification.

Note : A candidate who wholly or partially reproduces another candidate's work is liable to be disqualified from the examination.