



Rewarding Learning

ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2017

Centre Number

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Candidate Number

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Digital Technology

Assessment Unit AS 1

assessing

Approaches to
System Development



[SDT11]

SDT11

FRIDAY 26 MAY, MORNING

TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

You must answer the questions in the spaces provided.

Do not write outside the boxed area on each page or on blank pages.

Complete in black ink only. **Do not write with a gel pen.**

Answer **all five** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 100.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

Quality of written communication will be assessed in Questions **1(a)**, **3(b)**, **4(a)(ii)** and **5(d)**.



(b) Explain what is meant by each of the following in the context of a software project.

A constraint

A risk

[4]



One of the responsibilities of a project manager is to allocate resources.

(c) Identify three resources which will be allocated.

1. _____
2. _____
3. _____ [3]

(d) Identify two other responsibilities of a project manager.

1. _____

2. _____
_____ [2]

A large software project involves a team of programmers using technical documentation to develop code.

(e) Identify four components of technical documentation.

1. _____

2. _____

3. _____

4. _____
_____ [4]



2 (a) Describe how each of the following can be used to design the user interface.

Prototyping

Storyboarding

[6]



(b) A test plan is produced for a new computer system. Identify four components you would expect to find in a test plan.

1. _____

2. _____

3. _____

4. _____

_____ [4]

[Turn over





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(Questions continue overleaf)

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24SDT1109

3 (a) One reason for the 'software crisis' was that many software systems were delivered over budget.

Identify three other reasons that caused the 'software crisis'.

1. _____

2. _____

3. _____

[3]



(c) A fish and chip shop distributes its menu to customers. Customers can order food by telephone. The food is delivered to the customer's home. Customers pay and receive a receipt.

(i) Produce a context data flow diagram (DFD) for this system.

[6]



4 An organisation with a number of offices throughout the country introduced a computerised stock control system.

(a) Different changeover methods were considered for the implementation of the system.

(i) Explain how a system is implemented using direct changeover, and state one advantage and one disadvantage of this method.

Explanation

Advantage

Disadvantage

[4]



(b) Explain what data conversion was required if the computerised system replaced a manual system.

[4]



(c) The system requires adaptive maintenance.

(i) Identify two other types of software maintenance.

1. _____

2. _____

_____ [2]

(ii) Explain what is meant by adaptive maintenance.

_____ [3]

[Turn over



5 An Integrated Development Environment (IDE) includes the facility to translate programs.

(a) List four other facilities provided by an IDE.

1. _____

2. _____

3. _____

4. _____

_____ [4]

(b) Explain why a program might need to be translated.

_____ [4]



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Question Number	Marks
1	
2	
3	
4	
5	

Total Marks	
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Examiner Number

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