

GCE A Level – LEGACY

1243/01



INFORMATION AND COMMUNICATION TECHNOLOGY – IT3 Use and Impact of ICT

FRIDAY, 16 JUNE 2017 – MORNING 2 hours 30 minutes

ADDITIONAL MATERIALS

A WJEC pink 16-page answer booklet.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Answer all questions in Section A and one question group in Section B.

Use both sides of the paper. Write only within the white areas of the booklet.

Write the question number in the two boxes in the left hand margin at the start of each answer.

Leave at least two line spaces between each answer.

The intended marks for questions or part questions are given in brackets []. You are advised to divide your time accordingly. The total number of marks available is 90.

You are reminded of the necessity for good written communication and orderly presentation in your answers.

Quality of written communication will be assessed in question 10.

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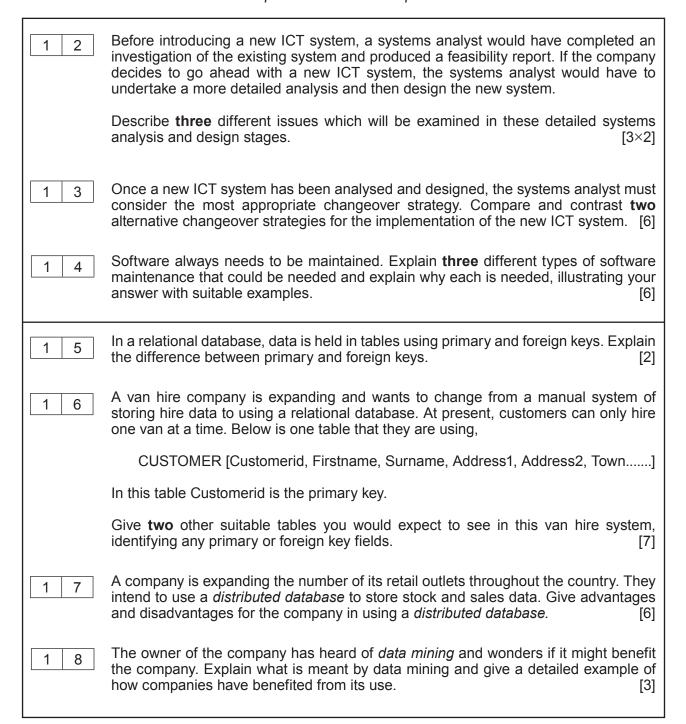
SECTION A

Answer all questions.

0 1	Other than on screen help, disabled access and differentiation between user expertise, describe three other factors which should be considered when designing a suitable human computer interface for use in the workplace. [3×2]
0 2	Three factors to be considered when a company updates or installs a new network are costs, performance and how the system will be used.
	For each of these three factors describe two considerations which will influence the company's choice of a new or updated IT network. [3×2]
0 3	One of the strategies used by a network manager is <i>configuration management</i> . Describe in detail what is meant by configuration management and give four positive effects from the use of systematic configuration management on the network. [6]
0 4	An organisation is updating their computer network and consequently are reviewing their network topology. Explain what is meant by <i>network topology</i> and, other than <i>cost</i> , discuss the relative advantages of ring and star topologies. [6]
0 5	A multinational company has developed an e-commerce system. Other than it can be cheaper to buy goods online, discuss the benefits and drawbacks e-commerce gives the company and the customers. [8]
0 6	There are a number of moral, social and ethical issues associated with the Internet. Other than censorship and privacy, discuss the effect that the internet has on communities. [8]
0 7	The use of videoconferencing is becoming more prevalent in modern society. Describe briefly two different uses of videoconferencing in medicine and then give one advantage and one disadvantage of videoconferencing in general. [4]
0 8	Explain what is meant by an <i>employee code of conduct</i> and, other than <i>password related issues</i> and <i>introducing viruses</i> , describe four potential problems of using ICT in the workplace which such a code is designed to prevent. [6]
0 9	Define what is meant by a Management Information System (MIS) and, other than the <i>complexity of the system</i> , describe in detail three factors which can lead to a poor MIS.
1 0	A company is introducing a new ICT system, this will mean that their workers will have to cope with a number of changes. Describe four of these changes which are likely to be a cause of stress to the workers and also describe the worries that these staff may have. [8]
1 1	Describe what is meant by distributed computing using the Internet and other than cost, describe two advantages and two disadvantages of distributed computing. [6]

SECTION B

Answer either questions 12 to 14 or questions 15 to 18.



END OF PAPER