Edexcel GCE

Applied Information and Communication Technology

Unit 9: Communication and Networks

June 2010

Scenario	Paper Reference **6959/01**

The scenario should be distributed to candidates at least three working weeks before the examination.
Note: There are **no** practice files for this examination.

This scenario should be used for the purposes of preparing candidates for the examination. This copy **must not** be taken into the examination. The information contained in the scenario will be included in the examination paper.

Further details are in the Instructions for the Conduct of Examinations (ICE), available from the Edexcel website for this qualification.

Edexcel will not accept any request for special consideration should candidates be given the incorrect scenario for the examination they are sitting.

Turn over ▶

edexcel
advancing learning, changing lives

La Koralo Laguno Hotel

La Koralo Laguno hotel is situated on the tropical island of Varma Loko. The hotel has a five star rating and caters for international tourists. The hotel is situated beside a large, shallow lagoon and specialises in providing facilities for watersports. La Koralo Laguno was established in 1995 and is now closed to be refurbished and extended. The hotel's I.T. system will need to be upgraded at the same time.
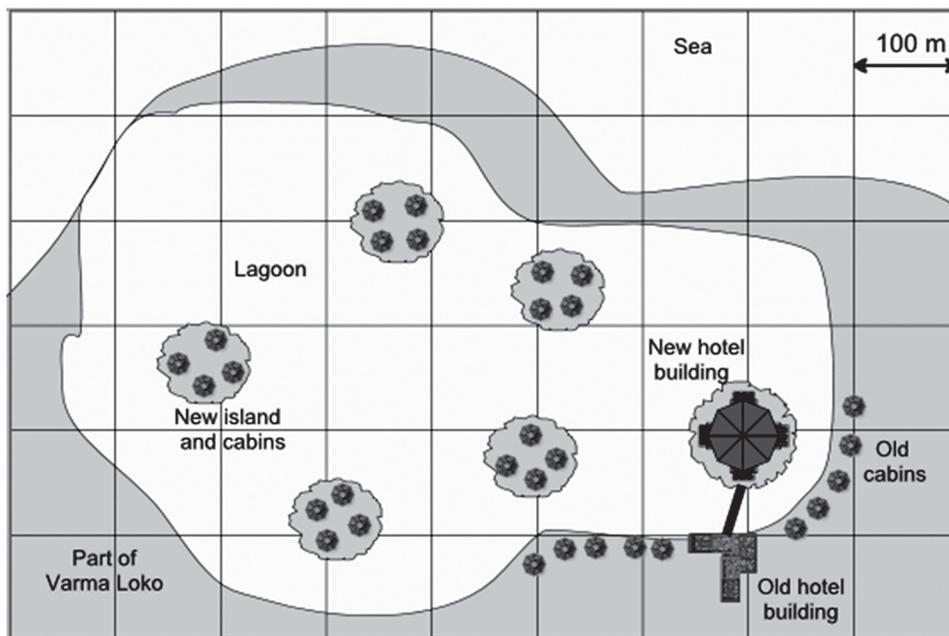
La Koralo Laguno consists of a two storey building and ten cabins, built near the water's edge. In the two storey building there are twenty double bedrooms, a restaurant and entertainment complex, and the I.T. and administration centre. Each cabin has two double bedrooms, a bathroom, a lounge, and a kitchen.

The extension of the hotel facilities will be built on artificial islands in the lagoon.

It will consist of:

• a new building, housing a shop and improved restaurant and entertainment facilities, linked to the old hotel building by a bridge

• twenty new cabins. The artificial islands with cabins will not be linked by bridges.

The current layout of the hotel and the proposed developments are shown on the sketch map.

Guests will be able to use canoes, rowing boats, and sailboards to access the islands. A water taxi service will be available for transporting luggage and those guests who are not feeling energetic enough to move under their own power.

At present the I.T. and administration centre is located on the ground floor of the old hotel building. It is an open plan area, measuring 10 metres by 20 metres, in the wing furthest away from the lagoon. It will be upgraded but will remain where it is.

The hotel LAN runs from an NT4 server. There are eight PCs used by the hotel staff. There are two black and white laser printers and a colour inkjet. The hotel's Internet connection was upgraded from a telephone dial-up system to a satellite dish last year. The LAN is cabled with CAT 5 and is confined to the old hotel building since some of the old cabins were beyond the maximum reach of a Cat 5 cable when they were built.

All of the old and new guest accommodation will be included in the new network and most of the old equipment is likely to be scrapped.

The project manager, Viro De Ordoni, has hired you to advise on the design and construction of the new I.T. system. The project has a multi-million pound budget and Viro has indicated that money and manpower will not be a problem. He has also told you that there are two important constraints that you must consider.

1. **A shortage of skilled labour.** The Varma Loko government has decreed that local labour must be used in the project. There are well-qualified electricians on the island and the hotel's network staff are also available. No-one has experience of anything other than copper cable or simple WiFi connections, therefore any equipment that you select must be simple to set up and operate. Copper cable and WiFi are Viro's preferred solutions and he is unlikely to change his mind about this.

2. **Inexperienced users.** Anything that may be used by a guest must be robust and intuitive to use, and be visually appealing.

BLANK PAGE