

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**  
**GCSE**  
**B063/02/PRE**  
**INFORMATION AND COMMUNICATION**  
**TECHNOLOGY**  
**ICT in Context**

**WEDNESDAY 21 MAY 2014: Afternoon**

**DURATION: 1 hour**  
**plus your additional time allowance**

**MODIFIED ENLARGED**

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**TechMed2014 is a modern health care provider. It has opened four new hospitals in different parts of the UK. Each hospital has a number of consulting rooms, four wards where in-patients stay and an operating theatre. Each hospital also has offices for administration.**

**Technology is used extensively throughout the hospitals in the diagnosis and treatment of patients and to support the day-to-day running of the hospital business.**

**A computer network is installed throughout each hospital. Some staff access information using hand-held devices and wireless technology. All the hospitals are able to share information using Wide Area Networking technology.**

**A website using Web 2.0 technologies is used to communicate with patients and members of the public.**

**TechMed2014 stores patients' medical records electronically. The medical team can access these records using a number of different devices. Expert systems can also be accessed by the medical team.**

**A patient-monitoring system is installed on each hospital bed. This system has a number of sensors which can take medical readings that are uploaded automatically to the patient's medical record. A bedside patient entertainment system is also provided.**

**In the future, doctors will be able to use telepresence technologies, including remote surgery, to work between hospitals.**

**Electronic signs and large screen displays are used in each hospital to give information about the hospital and its services.**

**Some administration staff from the hospitals are able to work from home.**

**TechMed2014 strives to be a paper-free organisation.**

**You need to research the following in relation to a medical environment:**

- **ICT hardware and software used in hospitals**
- **hardware and software needed to allow staff to work from home**
- **the uses of wireless technologies and hand-held devices**
- **security methods and devices, including biometrics**
- **advantages and disadvantages of storing patients' records electronically**
- **sensors and their uses in hospitals**
- **uses of expert systems**
- **methods of making websites accessible to people with disabilities**
- **telepresence technologies and their uses, including remote surgery**
- **entertainment technologies.**



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