

HAKCE Information and Communication Technology Mock Exam 2018

Paper 1 (Part A)

Answer

Section A

- | | |
|-------|-------|
| 1. B | 21. A |
| 2. B | 22. B |
| 3. A | 23. A |
| 4. C | 24. D |
| 5. B | 25. C |
| 6. A | 26. D |
| 7. D | 27. D |
| 8. C | 28. B |
| 9. C | 29. C |
| 10. C | 30. A |
| 11. D | 31. C |
| 12. C | 32. B |
| 13. B | 33. C |
| 14. B | 34. B |
| 15. A | 35. D |
| 16. D | 36. D |
| 17. C | 37. D |
| 18. D | 38. B |
| 19. A | 39. B |
| 20. A | 40. D |

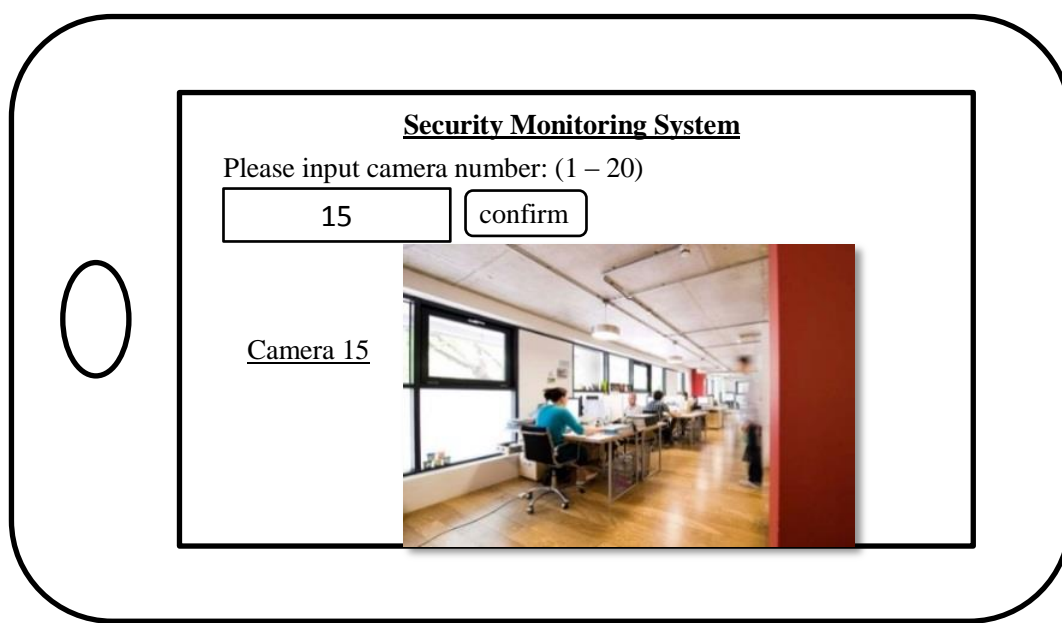
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Paper 1 (Part B)

Marking Scheme

Section B

1. (a) (i) (1) data of captured video , photographs 1
(2) startup program / firmware information 1
(ii) The data in the RAM will be transferred through network to other storage. 1
- (b) (i) Rotation per minute 1
(ii) The storage capacity is larger, which allows the system to store more video. 1 + 1
- (c) Batch processing mode. 1 + 1
Advantage: Computer resources can be fully utilized.
- (d) (i) Indicating the current camera number. 1
Reduce the space for getting input. / Maximum the display area 1



- (ii) The interface clearly indicates the current camera number. 1
Rearrange the layout to allow maximum display area / 1
A field for entry is provided instead of multiple buttons to reduce space for data entry.

2. (a) (i) Advantage: The connection is more stable. / The data transfer rate is higher. 1
Disadvantage: The connection is less portable. 1
(ii) The connection must be in line of sight. / The data transfer rate is lower. / Only one device can be connected at one time. 1
- (b) Advantage: The air conditioner can be controlled through the Internet. 1
Disadvantage: The network is more vulnerable to hackers' attack. 1
- (c) (i) Duration of operation / Setting of air-con (thermostat/fan speed) 1 × 2
(ii) Only restricted persons can access the data since the data contains private information. / Data analysis and application 1 + 1
- (d) (i) The DNS will translate the domain name into the corresponding IP address. 1
(ii) (1) Invalid domain name 1 × 2
(2) Owned by the company
3. (a) No. Both '6B' and '6C' are valid data, no validation rules can reflect this error. 1 + 1
- (b) (i) 12003 1
12001 1
12004
(ii) 6A 43 1
6B 5 1
6C 60
- (c) Mr. Lau wants to use cell reference for repetitive operations. 1 × 2
Spreadsheets do better in graph generation.
Spreadsheets provide better data analysis using 'what-if' analysis.
- (d) (i) =VLOOKUP(\$I\$120,\$A\$2:\$F\$121,6,FALSE) 1+1
(II) =COUNTIF(\$D\$2:\$D\$121,\$H2) 1, 1

4. (a) (i) Advantage: It is cross-platform, most software can open PDF files. 1
Document format can be preserved
Disadvantage: Specific software is needed to modify the PDF files. 1
(ii) SMTP 1
- (b) (i) Eavesdropping / Interception 1
(ii) No. The password is also sent through email, person who sneaks the file can also sneak the password in the same way. 1
- (c) (i) The customer encrypts the file with the company's public key and sends it to the company. 1
After receiving the file, the company decrypts it with its own private key. 1
(ii) Verify sender's identity 1
- (d) (i) (1) Put the receivers' email addresses in the Bcc field. 1
(2) To maintain customers' privacy. 1
(ii) Put the video in cloud storage and send the link to the video through email. 1 × 2
Upload the video to the web page of the online shop.
5. (a) Different smartphones use different operating systems. One single version is not compatible to all operating systems. 1 + 1
- (b) (i) TRUE 1
score[i + 1] 1
FALSE 1
(ii) 100 1
- (c) (i) Advantage: The loading on the smartphones can be greatly reduced. 1
Disadvantage: The performance of the game greatly depends on the network. 1
(ii) The computation power of the server. 1
- (d) The trial version of the game only allows users to: 1 × 2
1. play within a trial-period.
2. play only several simple tasks. (limited functions)