**GATITU SECONDARY SCHOOL**

**COMPUTER STUDIES ~ 2015 ~ END TERM EXAMS ~ TERM 2 ~ F3**

ADM:…………………. NAME: ………………………………………….……………..……………………………………………………….CLASS:……..…

1. A school keeps student records in a database. The data is coded before entry. State **three** reasons why the coding is necessary. =3mk

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1. A retailer uses a spreadsheet program to calculate profits. The figure below shows the spreadsheet.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F |
| 1 | ITEMS | COST PRICE | SELLING PRICE | PROFIT PER ITEM | ITEMS SOLD | TOTAL PROFIT |
| 2 | ITEM 1 | 305 | 350 | 45 | 32 | 1440 |
| 3 | ITEM 2 | 100 | 120 | 20 | 45 | 900 |
| 4 | ITEM 3 | 200 | 220 | 20 | 32 | 640 |
| 5 | ITEM 4 | 107 | 130 | 23 | 89 | 2047 |

1. Which row contains labels only? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ =1mk
2. Write the formula that has been entered in cell F2 =2mk

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1. State three reasons why an organization may opt to develop its own software in-house rather than buy off-the-shelf software =3mk
   1. Using one’s complement, subtract 1000112 from 0100102 =4mk

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* 1. Convert the number 21.0312510 to its binary equivalent =5mk

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1. 1. Differentiate between one’s complement and two’s complement in data representation =2mk

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* 1. Explain the preference of binary number systems over decimal number systems in computers =2mk

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1. Perform the following binary operations.

1101 + 11011 + 101 + 11111 =2mk

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1. 1. Define a laptop computer. =1mk

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* 1. The screen is said to be 17 inches. Explain what this means. =2mk

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***In order to succeed, your desire for success should be greater than your fear of failure.***

***~ Bill Cosby***

Answers

* 1. INDEXING BECOMES EASIER
  2. MINIMIZES ON MEMORY USED
  3. EASE OF DATA ENTRY
  4. REDUCES REDUNDANCY
  5. SPEEDY SEARCHES
  6. SIMPLIFIES VALIDATION

1. 1. RISK OF ELECTRIC SHOCKS TO THE USERS
   2. RISK OF FIRE OUTBREAKS IN THE LABORATORY
   3. RISK OF TRIPPING AND INJURIES
   4. POWER INTERRUPTION CAUSED BY STUMBLING ON THE CABLES
2. 1. ROW 1 OR 1
   2. D2\*E2; OR =PRODUCT(D2,E2)
3. 1. Customized to suit business needs of the organization
   2. It can be upgraded as needed by the organization
   3. The organization can have a module that the competitors don’t have
   4. The organization develops only the modules needed/memory optimization, or storage/space









