



# **ZIMBABWE SCHOOL EXAMINATIONS COUNCIL**

## **General Certificate of Education Ordinary Level**

### **COMPUTER SCIENCE**

#### **PAPER 3 Practical**

**4021/3**

**SPECIMEN PAPER**

**3 hours**

Additional materials:  
CD

**TIME** 3 hours

#### **INSTRUCTIONS TO CANDIDATES**

1. Insert your name, Centre number and candidate number as a header.
2. Answer **all** questions.
3. Indicate software you use for each question.
4. All answers must be printed.
5. Submit both the hard copy and soft copy of your answers.

#### **INFORMATION TO THE CANDIDATE**

1. This paper consists of question on:

Programming	50 marks,
Database	30 marks
Web design	20 marks
Paper total is	100 marks
2. The number of marks is given in brackets [ ] at the end of each question or part question.

---

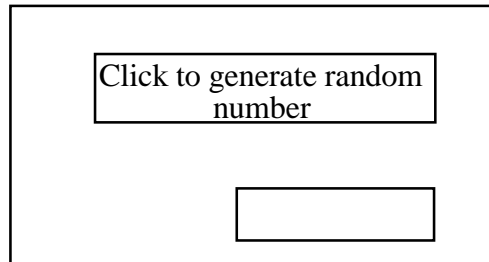
**This question paper consists of 4 printed pages.**

Copyright: Zimbabwe School Examinations Council, Specimen paper

Answer **all** questions.

For each question, indicate software used.

1. Design an interface and write a code that prompts a user to enter his/her name then, the output will be shown e.g. "Hello Chipo." [10]
2. Create a program code to generate a random number between 1 to 6. You can use the random class.



Produce the interface above. [10]

3. Write a program code to display the harsh pattern as shown below.

```
#      #      #      #      #
#      #      #      #      #
#      #      #      #      #
#      #      #      #      #
#      #      #      #      #
```

Print the code and interface above. [15]

4. Write and design a program to determine whether an input number is an even number.

Print the code and the interface [15]

5. (a) Create a website with the following:  
 The title of your Website is "Matulise;"  
 Welcome to Frecy High School;  
 We offer practical subjects at 'O' Level;  
 We offer Arts, Commercials and Sciences at 'A' Level.
- (b) Show pictures on the website you created in (a).  
 Save document as 'School.'  
 Print web pages created.

[20]

6. (a) Create **three** related tables, 'customer', 'products' and 'orders' as shown:

**Customers**

Customer ID	First Name	Last Name
1	Peter	Homela
2	Gibson	Ndlovu
3	James	Moyo
4	John	Sibanda
5	Alfred	Matare
6	Susan	Brown
7	Thomas	Meki
8	Tafadzwa	Chaminuka
9	Thulani	Mangena
10	Solomon	Mhlanga
11	Charles	Jones

**Products**

Product ID	Product Name	Price
1	Deskjet Printer	\$200
2	Dell Desktop	\$190
3	Laptop	\$175
4	Toner	\$50
5	Cartridge	\$40
6	Canon Printer	\$65
7	Typek A4	\$25

**Orders**

Order ID	Customer ID	Product ID
1	1	1
2	2	2
3	10	3
4	10	4
5	3	5
6	4	1
7	5	3
8	6	6
9	7	4
10	8	2
11	1	6
12	6	1
(New)	0	0

- (b) Establish the relationship among the tables in (a).

[15]

Print the screenshot of the result.

[4]

- (c) Using tables in (a), create a query that returns the Firstname and Lastname of all customers who have ordered a product.  
Name it “Customer orders.” [5]
- d) Produce a report from ‘product’ table in (a) and name it “Customer report.” [4]
- e) Export the report in (d) to a package of your choice. [2]