

Partial Test #1 English In System 2024

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Here's a multiple-choice test that includes both objective (multiple choice) and subjective (short answer) questions related to HTML web page design, reading Java code, setting macros in Excel 365, and understanding AI and machine learning. Also you need to do practical part to hand in by mail.

Objective Part: Multiple Choice Questions

HTML Web Page Design

1. What does HTML stand for?

- a) HyperText Markup Language
- b) HighText Markup Language
- c) Hyperlink and Text Markup Language
- d) Hyper Transfer Markup Language

2. Which of the following tags is used for creating a hyperlink in HTML?

- a) `<a>`
- b) `<link>`
- c) `<href>`
- d) `<url>`

3. Which HTML element is used to define the footer of a document?

- a) `<bottom>`
- b) `<footer>`
- c) `<end>`
- d) `<section>`

Java Reading Comprehension

4. What is the purpose of the `public static void main(String[] args)` method in a Java program?

a) To define a static variable

b) To execute the program

c) To declare a package

d) To import classes

5. In Java, which of the following is the correct way to declare an integer variable?

a) `int number;`

b) `int number[];`

c) `integer number;`

d) `num int;`

Excel 365 Macros

6. Which programming language is primarily used for writing Excel Macros?

a) Python

b) VBA (Visual Basic for Applications)

c) C++

d) JavaScript

7. How do you highlight a selection in Excel using a Macro?

a) By setting the `Selection.Color` property

b) By using the `Highlight` method

c) By applying `Selection.Interior.Color` property

d) By using the `SetColor` function

AI and Machine Learning

8. What is meant by "supervised learning" in machine learning?

- a) Learning without labeled data
- b) Learning with labeled data**
- c) Learning through reinforcement
- d) Learning from unstructured data

9. What is an AI system known for performing that is distinct from traditional programming?

- a) Following explicit instructions**
- b) Reasoning and learning from data
- c) Compiling code
- d) Storing data efficiently

Subjective Part: Short Answer Questions

1. ****Explain the basic structure of an HTML document. Include the key tags used. ****

R//: The basic structure of html is using the keys: <section>, <table>, <!DOCTYPE html>, <head>, <header>, <body>, these are some of the basic html tags, to close it is used : "</.....>",

2. ****How would you troubleshoot a Java code snippet that fails to compile? Provide at least three steps you would take.****

R//: Step 1: Check that you have the semicolons correctly placed since they are sometimes confused with colons.

Step 2: If it is a program that imports a method, verify that it was written correctly, also that the word "import" was used.

Step 3: Verify that Java allows using that type of error, (if applicable), since there are errors that Java marks in red but there are exceptions in Java.

3. ****Describe how to create a Macro in Excel 365 that changes the background color of the selected cells to yellow.****

R//: Using the format with conditional formatting, using a formula, if the conditional is true, that cell should be marked in yellow, if not, it does not mark anything.

4. ****What are some real-world applications of AI and machine learning today? Provide at least two examples and explain their significance.****

R//: 1. ChatGPT: this application is like a system that takes what you send it and shows you a result.

Fraseio: It is a system to summarize phrases or texts, you give it a text and it gives you the summarized text.

Most cell phones already come integrated with AI, making the user more useless and stupid. (NO FEAR OF FUNA)

Practical Part: Creating an Interactive Excel Worksheet Using the Verb "To Be"

Objective

Design and create an interactive Excel worksheet that helps users practice the verb "to be" in various contexts.

Guidelines for Creation

1. **Worksheet Title**: Name your worksheet "Interactive Verb 'To Be' Practice".
2. **Header Row**: Create a header row that includes the following columns:
 - **Sentence**
 - **Correct Form**
 - **User Input**
 - **Result**
3. **Provide Example Sentences**: Populate the "Sentence" column with a variety of sentences requiring the correct form of "to be" (is/are/am). For example:
 - "He____a doctor."
 - "They____students."
 - "I____happy."
4. **Correct Form Column**: Fill this column with the appropriate form of "to be" for each sentence.
5. **User Input**: Leave the "User Input" column blank for the users to fill in their answers.

6. ****Result Column****: Write a formula that checks if the user's input matches the correct form. Use an IF statement to return "Correct!" if the answer is right or "Try Again" if it's wrong. Example formula could be:

```
```excel
=IF(C2=B2, "Correct!", "Try Again")
```
```

7. ****Formatting****: Use conditional formatting to change the background color of the "Result" cell based on the user's input (e.g., green for correct, red for incorrect).

8. ****Instructions****: At the top of the worksheet, provide a short set of instructions for how to complete the exercise.

9. ****Protection****: Protect the cells that contain the correct answers and formulas so they cannot be accidentally altered.

10. ****Save Your Work****: Make sure to save your Excel workbook with an appropriate file name.

Rubric for Evaluation

| Criteria | Excellent (5) | Good (3-4) | Needs Improvement (0-2) |
|------------------------------------|---|-----------------------------|--------------------------------------|
| | | | |
| | | | |
| **Adherence to Guidelines** | All elements included and well-organized | Most elements included | Key elements missing or disorganized |
| **Interactivity** | Fully functional with formulas and conditional formatting | Basic interactivity present | No interactivity or formulas |

| ****Clarity of Instructions**** | Clear and easy to understand | Generally clear, some details missing | Confusing or unclear instructions |

| ****Creativity and Design**** | Visually appealing and engaging | Some effort in design | Little to no design effort |

| ****Functionality**** | All features operational and error-free | Minor issues present | Major issues, non-functional |

Submission

Submit your completed Excel worksheet file via the designated platform (tarea.ingles2029@gmail.com) by the specified due date. Ensure you include your name and the date in the file name.

Feel free to adjust any part of the guidelines or rubric as needed!

Feel free to modify any questions or answers, or let me know if you need additional content!