



**NATIONAL EXAMINATION
AND SCHOOL INSPECTION
AUTHORITY**

SOD – Web Application Development

T172

Monday, 26/7/2021

08:30 - 11:30 AM

Names

Index number

TVET NATIONAL EXAMINATIONS, RTQF LEVEL 5, 2020-2021

QUESTIONS and ANSWERS BOOKLET

OPTION/ TRADE : **SOFTWARE DEVELOPMENT**

SUBJECT :WEB APPLICATION DEVELOPMENT

ACADEMIC YEAR: **2020-2021**

* Read carefully the instructions on page (i) & (ii).

FOR EXAMINER'S USE ONLY

[illegible]



TVET NATIONAL EXAMINATION, RTQF LEVEL 5, 2020-2021

INSTRUCTIONS TO CANDIDATES: PART I (Answer Booklet)

1. A candidate should fill in the actual names and the index number on the cover of this questions and answer booklet on the provided place (Black Box).
2. It is illegal for a candidate to write any of his/her names, index number or a school name inside the answer booklet.
3. A candidate should check if all pages of the answer booklet are complete. No candidate should remove or tear any pages or part of it from the answer booklet.
4. A candidate should answer in the language in which the examination is set. (See page **(ii)**)
5. A candidate should sign on the sitting plan when submitting the answer booklet. He/she has also to check if the answer booklet is well sealed.
6. No extra paper is allowed in the examinations room. If a candidate is caught with it his/her results will be nullified.
7. No candidate is allowed to write answers not related to the subject being sat for, otherwise it will be considered as a cheating case.
8. Write your answers on the 12 lined pages (From page 1 of 12 to page 12 of 12).
9. Use the last non-lined pages as draft.
10. Results for any candidate who is caught in examination malpractices are nullified. The cheating can be recognized during examinations administration, marking exercise or even thereafter.

TVET NATIONAL EXAMINATION, RTQF LEVEL 5, 2020-2021

OPTION/TRADE: SOFTWARE DEVELOPMENT

Subject: Web Application Development

DURATION: 3 hours

INSTRUCTIONS TO CANDIDATES: PART II (Question paper)

The paper is composed of two (2) Sections as follows:

Section I: Attempt all the Twelve (12) questions

(60 marks)

Section II: Attempt any Four (4) questions out of Six (6)

(40 marks)

Allowed materials:

- Ruler or square
- Calculator

Note:

Every candidate is required to carefully comply with the provided assessment instructions.

Section I : Attempt all the Twelve (12) questions **(60 marks)**

01. List at least five (5) Steps of PHP Execution. **(5 marks)**

02. Choose the correct answer: **(5 marks)**

1. Which PHP function for checking version of PHP (choose one)

- a) Phpinfo()
- b) Phpversion()
- c) Phpinformation()

2. How many types of array are there in PHP (choose one)

- a) 2
- b) 4
- c) 3
- d) None of the above

3. What does PHP stand for

- a) Personal Home Place
- b) Hyper-text Preprocessor
- c) Personal Home Pages
- d) a and b are correct
- e) b and c are correct
- f) none of the above

4. After installing Xampp onto the computer (windows OS) the directory that can be used to save the PHP files is: (choose one)

- a) xampp/htdocs
- b) xampp/bin/lib
- c) xampp/htdocs

5. which correct PHP syntax to set cookies

- a) setcookie("sample", "ram", time()+3600);
- b) setcookies("sample", "ram", time()+3600);
- c) setcookie("sample", "ram", time()-3600);

03. Give and explain at least five (5) data types that can be used in PHP. (5 marks)
04. Differentiate PHP arithmetic from PHP comparison Operators and give at least three (3) examples for each. (5 marks)
05. Explain the different types of PHP functions. (5 marks)
06. List down five (5) popular PHP framework. (5 marks)
07. What will be the output of the following program? (5 marks)
- ```
<?php
$x=2;
do {
echo "The result is ".$x."
";

$x++;
} while ($x<=5);
?>
```
08. Differentiate while () from do... while () loop. (5 marks)
09. Give the roles of the following functions and PHP files functions. (5 marks)
- a) rand()
  - b) sqrt()
  - c) pi()
  - d) fclose()
  - e) copy()
10. Functions are *self-contained* modules of code that accomplish a specific task. With an example, explain the different types of PHP functions. (5 marks)
11. By using Arithmetic operators: Addition (+) and Subtractions (-), Write PHP program to swap two different integers numbers without using third variable. (5 marks)
12. Write a PHP script to delete a file named exam.txt after checking whether it exists and display success message after its deletion, otherwise display file doesn't exist. (5 marks)

**Section II: Attempt any Four (4) questions out of Six (6)**

**(40 marks)**

**13.** Write a PHP program to give the output as follows:

**(10 marks)**

```
*

* *

* * *

* * * *

* * * * *
```

**14.** What are the key differences between Laravel and PHP Cake Framework?

**(10 marks)**

**15.** Write a PHP program to calculate the sum of odd numbers between 0 and 100. (Using FOR Loop).

**(10 marks)**

**16.** Using SWITCH, Write PHP Code that ask a student to enter marks in the marks field, using form and display the *GRADE* according to the following instructions:

**(10 marks)**

| Conditions                          | Output                                                          |
|-------------------------------------|-----------------------------------------------------------------|
| Greater or equal to ninety          | Your grade is: A                                                |
| Greater or equal to eighty          | Your grade is: B                                                |
| Greater or equal to seventy         | Your grade is: C                                                |
| Greater or equal to sixty           | Your grade is: D                                                |
| Greater or equal to fifty           | Pass                                                            |
| Between one and forty-nine          | Fail                                                            |
| Under zero (0) and Greater than 100 | Please enter marks less than or equal to 100 and Greater than 0 |

17. a) Create a form which helps the user to enter Product\_name, Price\_per\_unit, and quantity of product. (5 marks)

b) Insert the data by using a form created above (a) and calculate the total\_price of product. (5 marks)

Table: myproduct(pid int(11) pk auto\_increment,product\_name varchar(255),price\_per\_unit int(11),quantity int (11),total\_price int(11) )

Database:product

18. Write a PHP program to produce the following output image (chess board):







