

PHP TEST

Neolab Vietnam

Duration: 60 mins

Total Mark

Name:

Date:/...../.....

Candidate of STUDIO

PART 1 - IQ

1. 2, 4, 6, 8, 9, 11 - Which one doesn't belong to this series

- A. 2
- B. 4
- C. 6
- D. 8
- E. 9
- F. 11

2. Which one of the five is difference?

- A. Dog
- B. Mouse
- C. Lion
- D. Snake
- E. Elephant

3. 28, 26, 23, 19, 14... What is next?

- A. 7
- B. 8
- C. 10
- D. 11
- E. 12

4. NEOLAB is to BALOEN as 746251 is to

- A. 725641
- B. 726451
- C. 712654
- D. 514627
- E. 152647

5. 1, 2, 4, 8, 10, 20 what's next?

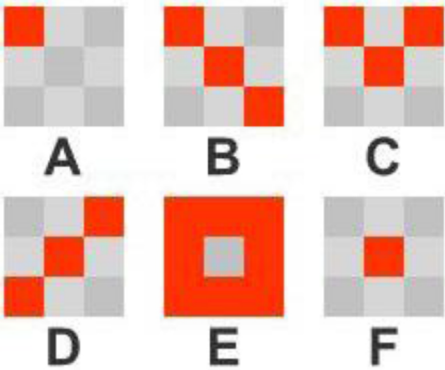
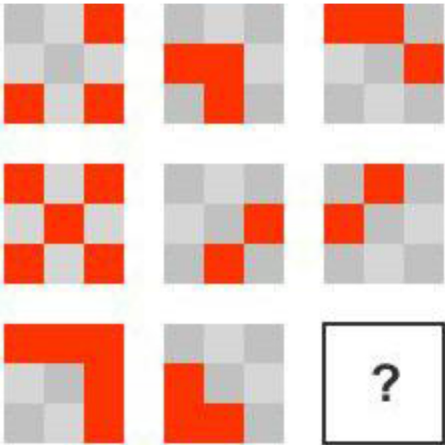
- A. 22
- B. 24

- C. 48
- D. 50
- E. 52

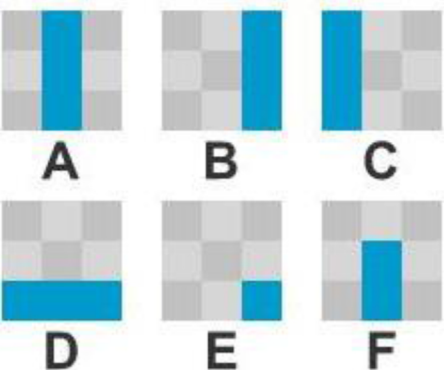
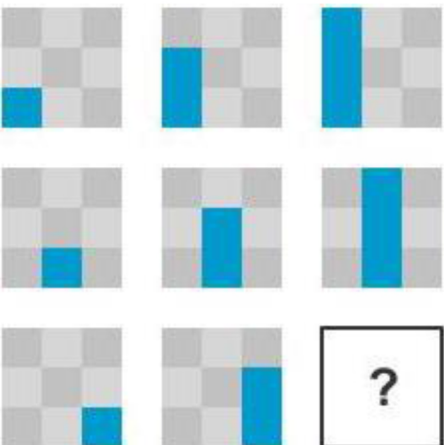
6. Huong is 30 years old, is 3 times as old as her brother. How old will Huong be when she is twice as old as her brother?

- A. 40
- B. 42
- C. 48
- D. 50
- E. 60

7.



8.



9. What is the letter for the 2 cells of *

M	Y	X	A	Y	O	*
D	C	O	X	K	I	*

- A. A
- B. H
- C. C
- D. D

E. F

10. Put the right number in the cell of "?"

14626	1
68099	0
56110	2
67019	1
16101	?

- A. 1
- B. 2
- C. 3
- D. 4

PART 2 – PHP BASIC

1. How to declare a constructor for employee class?

- A. `function construct($e){}`
- B. `function employee($e){}`
- C. `function __construct($e){}`

2. Which of following function is used to locate a string within a string?

- A. `search()`
- B. `locate()`
- C. `strops()`
- D. None of the above

3. Which operator is used to check if two values are equal and of same data type?

- A. `===`
- B. `==`
- C. `!=`
- D. `<>`

4. What is the correct way to create a function in PHP?

- A. `new myFunction()`
- B. `new_function myFunction()`
- C. `function myFunction()`
- D. `create myFunction()`

5. What is the correct way to assign a class constant?

- A. `constant MY_CONSTANT = 'value';`

- B. `const $myConstant = 'value'`
- C. `private MY_CONST = 'value';`
- D. `const MY_CONSTANT = 'value';`

6. Which of following is not a valid PHP variable declaration?

- A. `$aVaR`
- B. `${"MyVar"}`
- C. `$_10`
- D. `$10_var`

7.

```
<?php
    $stack = array("orange","banana","apple","mango");
    $fruit = array_pop($stack);
    Echo $stack;
?>
```

What will be the output?

- A. `[0]=>orange [1]=>banana [2]=>apple`
- B. `[0]=>orange [1]=>banana [2]=>mango`
- C. `[0]=>mango [1]=>banana [2]=>apple`

8. What is right function to connect database?

- A. `$conn = mysqli_connect($servername,$dbname,$username,$password);`
- B. `$conn = mysqli_connect($username,$password,$servername,$dbname);`
- C. `$conn = mysqli_connect($servername,$username,$password,$dbname);`
- D. None of the above

9. Which of following methods return a formatted string representing a date?

- A. `time()`
- B. `getTime()`
- C. `date()`
- D. `getDay()`
- E. None of these

10. Which file mode is/are used to read and write of any file?

- A. `r`
- B. `w`
- C. `r+`
- D. `x`

11. What is the result of the following code?

```
<?php
    $a=1;
    echo $a++;
    $a*=2;
    echo ++$a;

?>
```

- A. 14
- B. 24
- C. 11
- D. 15
- E. 25

12. Which variable assignment is 'by reference' in PHP?

- A. All
- B. \$value1=\$value;
- C. \$value1=&\$value;
- D. \$value1=%\$value;

13. Which of following is used to check if session variable is already set or not in PHP?

- A. session_start() function
- B. \$_SESSION[]
- C. isset() function
- D. session_destroy() function

14. Which of the following is correct about preg_match() function?

- A. The preg_match() function searches a string specified by string for a string specified by pattern, return true if the pattern is found, and false otherwise.
- B. The preg_match() function searches throughout a string specified by pattern for a string specified by string. The search is not case sensitive.
- C. The preg_match() function searches string for pattern, returning true if pattern exists, and false otherwise.
- D. None of the above.

PART 3 - WRITING

1. Write the code to check an integer number is power of 2 or not.

Eg: $4=2^2$, $8=2^3$, $32=2^5$ is power of 2.

ANSWER:

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2. There are 4 tables as below:

`users (id, full_name, email)`

`comments (id, user_id, target_table, target_id, comment)`

`blogs (id, title, content, user_id, view, is_activated)`

`news (id, title, content, view, is_activated)`

Note:

- **target_table:** store the name of related table, it's "blogs" or "news"

- **target_id:** store the id of blog record or newsrecord

Write SQL queries to:

1. Get 5 latest blogs and their number of comments.
2. Get 1 blog and 1 news which has the biggest number of comments.
3. Get blogs that the user/users who made it/them doesn't have any comment in any blogs.
4. Get the most-viewed blog (top 1).
5. Calculate mark for the user has an email address: neolab@example.com in the table "comments". The rule: In the table "comments" if
 target_table = "blog" => 2 point.
 target_table = "news" => 1 point.

ANSWERS :

