



Core Module 3- Web Designing QB



EASY

HTML

1. A webpage displays a picture. What tag was used to display that picture?

- A. picture
- B. image
- C. img
- D. src

Correct Answer : OPTION C

2. tag makes the enclosed text bold. What is other tag to make text bold?

- A.
- B. <dar>
- C. <black>
- D. <emp>

Correct Answer : OPTION A

3. Tags and text that are not directly displayed on the page are written in _____ section.

- A. <html>
- B. <head>
- C. <title>
- D. <body>

Correct Answer : OPTION B

4. Which tag inserts a line horizontally on your web page?

- A. <hr>
- B. <line>
- C. <line direction="horizontal">
- D. <tr>

Correct Answer : OPTION A

5. What should be the first tag in any HTML document?

- A. <head>
- B. <title>
- C. <html>
- D. <document>

Correct Answer : OPTION C

6. Which tag allows you to add a row in a table?

- A. <td> and </td>
- B. <cr> and </cr>
- C. <th> and </th>
- D. <tr> and </tr>

Correct Answer : OPTION D

7. How can you make a bulleted list?

- A. <list>
- B. <nl>
- C.
- D.

Correct Answer : OPTION C

8. How can you make a numbered list?

- A. <dl>
- B.
- C. <list>
- D.

Correct Answer : OPTION B

9. How can you make an e-mail link?

- A.
- B. <mail href="xxx@yyy ">
- C. <mail>xxx@yyy </mail>
- D.

Correct Answer : OPTION D

10. What is the correct HTML for making a hyperlink?

- A. Question
- B. Question
- C. <https://data.com
- D. url="https://data.com">Question

Correct Answer : OPTION A

11. Choose the correct HTML tag to make a text italic

- A. <ii>
- B. <italics>
- C. <italic>
- D. <i>

Correct Answer : OPTION D

12. Choose the correct HTML tag to make a text bold?

- A.
- B. <bold>
- C. <bb>
- D. <bld>

Correct Answer : OPTION A

13. What is the correct HTML for adding a background color?

- A. <body color="yellow">
- B. <body bgcolor="yellow">
- C. <background>yellow</background>
- D. <body background="yellow">

Correct Answer : OPTION B

14. Choose the correct HTML tag for the smallest size heading?

- A. <heading>
- B. <h6>
- C. <h1>
- D. <head>

Correct Answer : OPTION B

15. What is the correct HTML tag for inserting a line break?

- A.

- B. <lb>
- C. <break>
- D. <newline>

Correct Answer : OPTION A

16. What does vlink attribute mean?

- A. visited link
- B. virtual link
- C. very good link
- D. active link

Correct Answer : OPTION A

17. Which attribute is used to name an element uniquely?

- A. class
- B. id
- C. dot
- D. all of above

Correct Answer : OPTION B

18. Which tag creates a check box for a form in HTML?

- A. <checkbox>
- B. <input type="checkbox">
- C. <input=checkbox>
- D. <input checkbox>

Correct Answer : OPTION B

19. To create a combo box (drop down box) which tag will you use?

- A. <select>
- B. <list>
- C. <input type="dropdown">
- D. all of above

Correct Answer : OPTION A

20. Which of the following is not a pair tag?

- A. <p>
- B. < u >
- C. <i>
- D.

Correct Answer : OPTION D

21. To create HTML document you require a

- A. web page editing software
- B. High powered computer
- C. Just a notepad can be used
- D. None of above

Correct Answer : OPTION C

22. The special formatting codes in HTML document used to present content are

- A. tags
- B. attributes
- C. values
- D. None of above

Correct Answer : OPTION A

23. HTML documents are saved in

- A. Special binary format
- B. Machine language codes
- C. ASCII text
- D. None of above

Correct Answer : OPTION C

24. Some tags enclose the text. Those tags are known as

- A. Couple tags
- B. Single tags
- C. Double tags
- D. Pair tags

Correct Answer : OPTION D

25. The _____ character tells browsers to end tagging the text

- A. ?
- B. /
- C. >
- D. %

Correct Answer : OPTION B

26. In HTML document the tags

- A. Should be written in upper case
- B. should be written in lower case
- C. should be written in propercase
- D. can be written in both uppercase or lowercase

Correct Answer : OPTION D

27. Marquee is a tag in HTML to

- A. mark the list of items to maintaininqueue
- B. Mark the text so that it is hidden in browser
- C. Display text with scrolling effect
- D. None of above

Correct Answer : OPTION C

28. There are _____ different of heading tags in HTML

- A. 4
- B. 5
- C. 6
- D. 7

Correct Answer : OPTION C

29. To create a blank line in your web page

- A. press Enter two times
- B. press Shift + Enter
- C. insert
 tag
- D. insert <BLINE>

Correct Answer : OPTION C

30. Which of the following is not a style tag?

- A.
- B. <tt>
- C. <i>
- D. All of above are style tags

Correct Answer : OPTION D

CSS

31. What does CSS stand for?

- 1. Creative Style Sheets
- 2. Colorful Style Sheets
- 3. Cascading Style Sheets
- 4. Computer Style Sheets

Correct Answer : OPTION C

32. What is the correct HTML for referring to an external style sheet?

- 1. <stylesheet>mystyle.css</stylesheet />
- 2. <style src="mystyle.css" />
- 3. <link rel="stylesheet" type="text/css" href="mystyle.css">

Correct Answer : OPTION C

33. Where in an HTML document is the correct place to refer to an external style sheet?

- 1. At the end of the document
- 2. In the <head> section
- 3. At the top of the document
- 4. In the <body> section

Correct Answer : OPTION B

34. Which HTML tag is used to define an internal style sheet?

- 1. <style>
- 2. <css>
- 3. <script>

Correct Answer : OPTION A

35. Which HTML attribute is used to define inline styles?

- 1. font
- 2. class
- 3. styles
- 4. style

Correct Answer : OPTION D

36. Which is the correct CSS syntax?

- 1. body {color: black}
- 2. {body;color:black}
- 3. {body:color=black(body)}

4. body:color=black

Correct Answer : OPTION A

37. How do you insert a comment in a CSS file?

1. // this is a comment //
2. /* this is a comment */
3. ' this is a comment
4. // this is a comment

Correct Answer : OPTION B

38. Which property is used to change the background color?

1. bgcolor:
2. background-color:
3. color:

Correct Answer : OPTION B

39. How do you add a background color for all <h1> elements?

1. all.h1 {background-color:#FFFFFF}
2. h1.all {background-color:#FFFFFF}
3. h1 {background-color:#FFFFFF}

Correct Answer : OPTION C

40. How do you change the text color of an element?

1. text-color=
2. fgcolor:
3. color:
4. text-color:

Correct Answer : OPTION C

41. Which CSS property controls the text size?

1. font-size
2. font-style
3. text-style
4. text-size

Correct Answer : OPTION A

42. What is the correct CSS syntax for making all the <p> elements bold?

1. <p style="text-size:bold">
2. p {font-weight:bold}
3. p {text-size:bold}
4. <p style="font-size:bold">

Correct Answer : OPTION B

43. How do you display hyperlinks without an underline?

1. a {text-decoration:no underline}
2. a {decoration:no underline}
3. a {text-decoration:none}
4. a {underline:none}

Correct Answer : OPTION C

44. How do you make each word in a text start with a capital letter?

1. text-transform:capitalize
2. You can't do that with CSS
3. text-transform:uppercase

Correct Answer : OPTION A

45. How do you change the font of an element?

1. font-family:
2. font=
3. f:

Correct Answer : OPTION A

46. How do you make the text bold?

1. font:b
2. font-weight:bold
3. style:bold

Correct Answer : OPTION B

47. How do you display a border like this:

The top border = 10 pixels

The bottom border = 5 pixels

The left border = 20 pixels

The right border = 1pixel?

1. border-width:10px 20px 5px 1px
2. border-width:10px 1px 5px 20px
3. border-width:5px 20px 10px 1px
4. border-width:10px 5px 20px 1px

Correct Answer : OPTION B

48. How do you change the left margin of an element?

1. margin:
2. indent:
3. margin-left:
4. text-indent:

Correct Answer : OPTION C

49. To define the space between the element's border and content, you use the padding property, but are you allowed to use negative values?

1. Yes
2. No

Correct Answer : OPTION B

50. How do you make a list that lists its items with squares?

1. list-type: square
2. type: square
3. type: 2

4. list-style-type: square

Correct Answer : OPTION D

PHP

51. What PHP stands for?

- A. Hypertext Preprocessor
- B. Pre Hypertext Processor
- C. Pre Hyper Processor
- D. Pre Hypertext Process

Correct Answer : OPTION D

52. Which of the following tags is not a valid way to begin and end a PHP code block?

- A. <% %>
- B. <? ?>
- C. <?= ?>
- D. <! !>

Correct Answer : OPTION B

53. How does the identity operator === compare two values?

- A. It converts them to a common compatible data type and then compares the resulting values
- B. It returns True only if they are both of the same type and value
- C. If the two values are strings, it performs a lexical comparison
- D. It bases its comparison on the C strcmp function exclusively
- E. It converts both values to strings and compares them

Correct Answer : OPTION A

54. Under what circumstance is it impossible to assign a default value to a parameter while declaring a function?

- A. When the parameter is Boolean
- B. When the function is being declared as a member of a class
- C. When the parameter is being declared as passed by reference
- D. When the function contains only one parameter
- E. Never

Correct Answer : OPTION C

55. Variables always start with a in PHP

- A. Pound-sign
- B. Yen-sign
- C. Dollar-sign
- E. Euro-sign

Correct Answer : OPTION C

56. What is the value displayed when the following is executed? Assume that the code was executed using the following URL:

testscript.php?c=25

```
<?php
```

```
function process($c, $d = 25)
```

```
{
```

```
global $e;
```

```
$retval = $c + $d - $_GET['c'] - $e;
```

```
return $retval;
```

```
}
```

```
$e = 10;
```

```
echo process(5);
```

```
?>
```

- A. 25
- B. -5
- C. 10
- D. 5

Correct Answer : OPTION B

57. PHP is an open source software

- A. True
- B. False

Correct Answer : OPTION A

58. Which of the following is not valid PHP code?

- A. \$_10
- B. \${"MyVar"}
- C. &\$something
- D. \$10_somethings
- E. \$aVaR

Correct Answer : OPTION D

59. What is the difference between print() and echo()?

- A. print() can be used as part of an expression, while echo() can't
- B. echo() can be used as part of an expression, while print() can't
- C. echo() can be used in the CLI version of PHP, while print() can't
- D. print() can be used in the CLI version of PHP, while echo() can't

Correct Answer : OPTION A

60. PHP runs on different platforms (Windows, Linux, Unix, etc.)

- A. True
- B. False

Correct Answer : OPTION A

61. Which of the following will not combine strings \$s1 and \$s2 into a single string?

- A. \$s1 + \$s2
- B. "{\$s1}{\$s2}"
- C. \$s1.\$s2
- D. implode(' ', array(\$s1,\$s2))

Correct Answer : OPTION A

62. Given a variable \$email containing the string user@example.com, which of the following statements would extract the string example.com?

- A. substr(\$email, strpos(\$email, "@"));
- B. strstr(\$email, "@");
- C. strchr(\$email, "@");
- D. substr(\$email, strpos(\$email, "@")+1);

Correct Answer : OPTION D

63. Given a comma-separated list of values in a string, which function from the given list can create an array of each individual value with a single call?

- A. strstr()
- B. Cannot be done with a single function
- C. extract()
- D. explode()

Correct Answer : OPTION D

64. What is the best all-purpose way of comparing two strings?

- A. Using the strpos function

- B. Using the == operator
- C. Using strcmp()
- D. Using strncmp()

Correct Answer : OPTION D

65. Which of the following PCRE regular expressions best matches the string php|architect?

- A. .*
- B. ...|.....
- C. \d{3}\d{8}
- D. [a-z][a-z][a-z]\w{9}

Correct Answer : OPTION D

66. Which of the following functions can be used to determine the integrity of a string?

- A. md5()
- B. sha1()
- C. crc32()
- D. All of the mentioned

Correct Answer : OPTION D

67. What happens if you add a string to an integer using the + operator?

- A. The interpreter outputs a type mismatch error
- B. The string is converted to a number and added to the integer
- C. The string is discarded and the integer is preserved
- D. The integer and string are concatenated together in a new string

Correct Answer : OPTION B

68. The _____ function can be used to compare two strings using a case-insensitive binary algorithm

- A. strcmp()
- B. stricmp()
- C. strcasecmp()
- D. stristr()

Correct Answer : OPTION C

69. Which of the following functions can be used to convert the binary data stored in a string into its hexadecimal representation?

- A. encode_hex()
- B. pack()

C. hex2bin()

D. bin2hex()

Correct Answer : OPTION B

70. `^[A-Za-z].*` matches

A. play it again

B. I

C. Both of the mentioned

D. None of the mentioned

Correct Answer : OPTION C

71. `^[0-9]{5}(\-[0-9]{4})?$` matches

A. 90001 and 90002-4323

B. 9001 and 12-4321

C. 09001 and 900001

D. 90001 and 12-900002

Correct Answer : OPTION A

72. Array values are keyed by _____ values (called indexed arrays) or using _____ values (called associative arrays). Of course, these key methods can be combined as well.

A. Float, string

B. Positive number, negative number

C. Even number, string

D. Integer, string

Correct Answer : OPTION D

73. What will the following script output?

```
<?php
```

```
$array = array (1, 2, 3, 5, 8, 13, 21, 34, 55);
```

```
$sum = 0;
```

```
for ($i = 0; $i < 5; $i++) {
```

```
    $sum += $array[$array[$i]];
```

```
}
```

```
echo $sum;
```

```
?>
```

A. 78

B. 19

C. NULL

D. 5

Correct Answer : OPTION A

74. What elements will the following script output?

```
<?php
$array = array (true => 'a', 1 => 'b');
var_dump ($array);
?>
```

- A. 1 => 'b'
- B. True => 'a', 1 => 'b'
- C. 0 => 'a', 1 => 'b'
- D. It will output NULL

Correct Answer : OPTION D

75. Which array function checks if the specified key exists in the array

- A. array_key_exist()
- B. array_key_exists()
- C. array_keys_exists()
- D. arrays_key_exists()

Correct Answer : OPTION B

76. There are three different kind of arrays:

- A. Numeric array, String array, Multidimensional array
- B. Numeric array, Associative array, Dimensional array
- C. Numeric array, Associative array, Multidimensional array
- D. Const array, Associative array, Multidimensional array

Correct Answer : OPTION C

77. Absent any actual need for choosing one method over the other, does passing arrays by value to a read-only function reduce performance compared to passing them by reference?

- A. Yes, because the interpreter must always create a copy of the array before passing it to the function.
- B. Yes, but only if the function modifies the contents of the array.
- C. Yes, but only if the array is large.
- D. No.

Correct Answer : OPTION D

78. Assume you would like to sort an array in ascending order by value while preserving key associations. Which of the following PHP sorting functions would you use?

- A. ksort()

- B. `asort()`
- C. `krsort()`
- D. `sort()`

Correct Answer : OPTION B

79. What function computes the difference of arrays?

- A. `array_diff`
- B. `diff_array`
- C. `arrays_diff`
- D. `diff_arrays`

Correct Answer : OPTION A

80. What functions count elements in an array?

- A. `count`
- B. `sizeof`
- C. `Array_Count`
- D. `Count_array`

Correct Answer : OPTION A,B

81. What array will you get if you convert an object to an array?

- A. An array with properties of that object as the array's elements.
- B. An array with properties of that array as the object's elements.
- C. An array with properties of that object as the Key elements.
- D. An array with keys of that object as the array's elements.

Correct Answer : OPTION A

82. Which of the following functions do not return a timestamp?

- A. `time()`
- B. `date()`
- C. `strtotime()`
- D. `gmtime()`

Correct Answer : OPTION B

83. The `getdate()` function returns

- A. An integer
- B. A floating-point number
- C. An array
- D. A string
- E. A Boolean

Correct Answer : OPTION C

84. Returns the time of sunrise for a given day / location

- A. datesunrise()
- B. date_sunrise()
- C. date-sunrise()
- D. date.sunrise()

Correct Answer : OPTION B

85. What will the following script output?

```
<?php
$time = strtotime ('2004/01/01');
echo date ('H:i:s', $time);
?>
```

- A. 00:00:00
- B. 12:00:00
- C. 00:i:00
- D. 12:i:00
- E. -1

Correct Answer : OPTION C

86.Checks a date for numeric validity.

- A. check_date
- B. verifydate
- C. Verify_date
- D. checkdate

Correct Answer : OPTION D

87. What is the difference, in seconds, between the current timestamp in the GMT time zone and the current timestamp in your local time zone?

- A. It depends on the number of hours between the local time zone and GMT
- B. There is no difference
- C. The two will only match if the local time zone is GMT
- D. The two will never match
- E. None of the above

Correct Answer : OPTION B

88. You must make a call to to specify what time zone you want calculations to take place in before calling any date functions.

- A. date_default_timezone_set()
- B. datedefault_timezone_set()
- C. date_defaulttimezone_set()
- D. date_default_timezoneset()

Correct Answer : OPTION A

89. What would happen if the following script were run on a Windows server set to Moscow, Russia's time zone?

```
<?php  
echo gmmktime(0, 0, 0, 1, 1, 1970);  
?>
```

- A. It would output the number 0
- B. It would output the number -1
- C. It would output the number 1
- D. It would raise an error
- E. It would output nothing

Correct Answer : OPTION A

90. The function parses an English textual date or time into a Unix timestamp

- A. strtodate()
- B. stroftime()
- C. strtotime()
- D. str_to_time()

Correct Answer : OPTION C

91. Formats a local time or date according to locale settings.

- A. strftime
- B. strgtime
- C. strhetime
- D. stritime

Correct Answer : OPTION A

92. In PHP, the difference between double quote and single quote is that variables in single quoted strings whereas they in double quoted strings.

- A. are not parsed, are parsed
- B. are parsed, are not parsed

Correct Answer : OPTION A

93. PHP strings are binary-safe (i.e. they can contain null bytes) . Their size is limited only by the amount of memory that is available to PHP.

- A. True
- B. False

Correct Answer : OPTION A

94. `<?php print substr ('watch out for that tree',20,5); ?>`
What is the output of above statement?

- A. tree
- B. tree'
- C. ree
- D. none of above

Correct Answer : OPTION C

95. `$var = 'HELLO WORLD!';`
`$var = ucfirst($var);`
What is the value of var?

- A. Hello World!
- B. hello world!
- C. Hello world!
- D. HELLO WORLD!

Correct Answer : OPTION D

96. The functions `strtolower()` and `strtoupper()` work on individual characters and not on entire strings.

- A. True
- B. False

Correct Answer : OPTION B

97. For `trim`, `ltrim` or `rtrim`, whitespace is defined as

- A. newline
- B. space
- C. vertical tab
- D. all of the mentioned

Correct Answer : OPTION D

98. Heredoc's are a great alternative to quoted strings because of increased readability and maintainability.

- A. True
- B. False

Correct Answer : OPTION A

99. Which of the below is most useful for debugging:

- A. print()
- B. printf()
- C. print_r()
- D. echo

Correct Answer : OPTION C

100. \$name = "John";
\$message = 'Hello, \$name';
What is the value of message?

- A. Hello, John
- B. it will print an error message
- C. 'Hello, \$name'
- D. none of above

Correct Answer : OPTION C

101.

```
<?php
    $str = "Hello fri3nd, you're
    feeling    happy today?";
    echo str_word_count($str);
```

?>

- A. 7
- B. 6
- C. 5
- D. 4

Correct Answer : OPTION A

PYTHON

102. What is answer of this expression, 22 % 3 is?

- A. 7
- B. 1
- C. 0
- D. 5

Correct Answer : OPTION B

103. What is the output of this expression, $3*1**3$?

- A. 27
- B. 9
- C. 3
- D. 1

Correct Answer : OPTION C

104. Which of the following will run without errors ?

- A. `round(45.8)`
- B. `round(6352.898,2,5)`
- C. `round()`
- D. `round(7463.123,2,1)`

Correct Answer : OPTION A

105. What datatype is the object below ?

`L = [1, 23, 'hello', 1]`.

- A. list
- B. dictionary
- C. array
- D. tuple

Correct Answer : OPTION A

106. What does `----- 5` evaluate to?

- A. +5
- B. -11
- C. +11
- D. -5

Correct Answer : OPTION A

107. What is the result of `round(0.5) – round(-0.5)`?

- A. 1.0
- B. 2.0
- C. 0.0
- D. None of the mentioned

Correct Answer : OPTION C

108. What is the maximum possible length of an identifier?

- A. 31 characters
- B. 63 characters
- C. 79 characters
- D. none of the mentioned

Correct Answer : OPTION D

109. All keywords in Python are in

- A. lower case
- B. UPPER CASE
- C. Capitalized
- D. None of the mentioned

Correct Answer : OPTION D

110. Which of the following is an invalid statement?

- A. `abc = 1,000,000`
- B. `a b c = 1000 2000 3000`
- C. `a,b,c = 1000, 2000, 3000`
- D. `a_b_c = 1,000,000`

Correct Answer : OPTION B

111. Which of these is not a core datatype?

- A. Lists
- B. Dictionary
- C. Tuples
- D. Class

Correct Answer : OPTION D

112. What is the output when following code is executed ?

```
print("\nhello")
```

The output is

- A. a new line and hello
- B. \nhello
- C. the letter r and then hello
- D. Error

Correct Answer : OPTION B

113. What is the output of the following code ?

```
example = "snow world"  
example[3] = 's'  
print(example)
```

- A. snow
- B. snow world
- C. Error
- D. snos world

Correct Answer : OPTION C

114. What is the output of print("hello"+1+2+3)

- A. hello123
- B. hello
- C. Error
- D. hello6

Correct Answer : OPTION C

115. Suppose i is 5 and j is 4, i + j is same as

- A. i.__add(j)
- B. i.__add__(j)
- C. i.__Add(j)
- D. i.__ADD(j)

Correct Answer : OPTION B

116. What is the output of the following?

```
print('*', "abcdef".center(7), '*')
```

- A. * abcdef *
- B. * abcdef *
- C. *abcdef *
- D. * abcdef*

Correct Answer : OPTION B

117. What is the output of the following?

```
print("xyyzxyzxzyy".count('xy', 2, 11))
```

A. 2

B. 0

C. 1

D. Error

Correct Answer : OPTION B

118. What is the output of the following?

```
print("Hello {1} and {0}".format('bin', 'foo'))
```

A. Hello foo and bin

B. Hello bin and foo

C. Error

D. None of the mentioned

Correct Answer : OPTION A

119. What is the output of the following?

```
print('The sum of {0} and {1} is {2}'.format(2, 10, 12))
```

A. The sum of 2 and 10 is 12

B. Error

C. The sum of 0 and 1 is 2

D. None of the mentioned

Correct Answer : OPTION A

120. What is the output of the following?

```
print('ab'.isalpha())
```

A. True

B. False

C. None

D. Error

Correct Answer : OPTION A

121. What is the output of the following?


```
print('1.1'.isnumeric())
```

- A. True
- B. False
- C. None
- D. Error

Correct Answer : OPTION B

122. What is the output of the following?

```
print('a'.maketrans('ABC', '123'))
```

- A. {97: 49, 98: 50, 99: 51}
- B. {65: 49, 66: 50, 67: 51}
- C. {97: 49}
- D. 1

Correct Answer : OPTION A-OPTION B

123. What is the output of the following?

```
print('xyxyxyxyxyxy'.replace('xy', '12', 100))
```

- A. xyxyxyxyxyxy
- B. 12y12y1212x12
- C. none of the mentioned
- D. error

Correct Answer : OPTION B

124. What is the output of the following?

```
print('abcd'.translate({'a': '1', 'b': '2', 'c': '3', 'd': '4'}))
```

- A. abcd
- B. 1234
- C. error
- D. none of the mentioned

Correct Answer : OPTION A

Cloud Computing

125. When you add a software stack, such as an operating system and applications to the service, the model shifts to _____ model.

- A. SaaS
- B. PaaS
- C. IaaS
- D. All of the mentioned

Correct Answer : OPTION A

126. Which of the following is most refined and restrictive service model ?

- A. IaaS
- B. CaaS
- C. PaaS
- D. All of the mentioned

Correct Answer: OPTION C

127. All cloud computing applications suffer from the inherent _____ that is intrinsic in their WAN connectivity.

- A. propagation
- B. latency
- C. noise
- D. All of the mentioned

Correct Answer: OPTION B

128. Cloud computing is a _____ system and it is necessarily unidirectional in nature.

- A. stateless
- B. stateful
- C. reliable
- D. 4

Correct Answer: OPTION A

129. Which of the following is best known service model ?

- A. SaaS
- B. IaaS
- C. PaaS
- D. All of the mentioned

Correct Answer: OPTION D

130. The _____ model originally did not require a cloud to use virtualization to pool resources.

- A. NEFT
 - B. NIST
 - C. NIT
 - D. All of the mentioned
- Correct Answer: OPTION B

131. Which of the following is related to service provided by Cloud ?

- A. Sourcing
- B. Ownership
- C. Reliability
- D. AaaS

Correct Answer: OPTION A

132. _____ dimension corresponds to two different states in the eight possible cloud forms.

- A. Physical location of data
- B. Ownership
- C. Security boundary
- D. None of the mentioned

Correct Answer: OPTION D

133. _____ is a complete operating environment with applications, management, and the user interface.

- A. IaaS
- B. SaaS
- C. PaaS
- D. All of the mentioned

Correct Answer: OPTION B

134. Which of the following cloud concept is related to pooling and sharing of resources ?

- A. Polymorphism
- B. Abstraction
- C. Virtualization
- D. None of the mentioned

Correct Answer: OPTION C

DBMS

135. The candidate key is that you choose to identify each row uniquely is called

.....

- A. Alternate Key
- B. Primary Key
- C. Foreign Key
- D. None of the above

Correct Answer: OPTION B

136. is used to determine whether a table contains duplicate rows.

- A. Unique predicate
- B. Like Predicate
- C. Null predicate
- D. In predicate

Correct Answer: OPTION A

137. To eliminate duplicate rows is used

- A. NODUPLICATE
- B. ELIMINATE
- C. DISTINCT
- D. None of these

Correct Answer: OPTION C

138. State true or false

- i. A candidate key is a minimal super key.
- ii. A candidate key can also refer to a surrogate key.

- A. i-true, ii-false
- B. i-false, ii-true
- C. i-true, ii-true
- D. i-false, ii-false

Correct Answer: OPTION C

139. DCL stands for

- A. Data Control Language
- B. Data Console Language
- C. Data Console Level
- D. Data Control Level

Correct Answer: OPTION A

140. is the process of organizing data into related tables.

- A. Normalization
- B. Generalization
- C. Specialization
- D. None of the above

Correct Answer: OPTION A

141. A Does not have a distinguishing attribute if its own and most are dependent entities, which are part of some another entity.

- A. Weak entity
- B. Strong entity
- C. Non-attributes entity
- D. Dependent entity

Correct Answer: OPTION A

142. is the complex search criteria in the where clause.

- A. Substring
- B. Drop Table
- C. Predict
- D. Predicate

Correct Answer: OPTION D

143. is the preferred method for enforcing data integrity

- A. Constraints
- B. Stored Procedure
- C. Triggers
- D. Cursors

Correct Answer: OPTION A

144. The number of tuples in a relation is called its While the number of attributes in a relation is called it's

- A. Degree, Cardinality
- B. Cardinality, Degree

C. Rows, Columns

D. Columns, Rows

Correct Answer: OPTION B

145. The language that requires a user to specify the data to be retrieved without specifying exactly how to get it is

A. Procedural DML

B. Non-Procedural DML

C. Procedural DDL

D. Non-Procedural DDL

Correct Answer: OPTION B

146. Which two files are used during the operation of the DBMS?

A. Query languages and utilities

B. DML and query language

C. Data dictionary and transaction log

D. Data dictionary and query language

Correct Answer: OPTION C

147. The database schema is written in

A. HLL

B. DML

C. DDL

D. DCL

Correct Answer: OPTION C

148. The way a particular application views the data from the database that the application uses is a

A. module

B. relational model

C. schema

D. subschema

Correct Answer: OPTION D

149. The relational model feature is that there

- A. is no need for primary key data
- B. is much more data independence than some other database models
- C. are explicit relationships among records.
- D. are tables with many dimensions

Correct Answer: OPTION B

150. Which one of the following statements is false?

- A. The data dictionary is normally maintained by the database administrator
- B. Data elements in the database can be modified by changing the data dictionary.
- C. The data dictionary contains the name and description of each data element.
- D. A data dictionary is a tool used exclusively by the database administrator.

Correct Answer: OPTION B

151. Which of the following are the properties of entities?

- A. Groups
- B. Table
- C. Attributes
- D. Switchboards

Correct Answer: OPTION C

152. Which database level is closest to the users?

- A. External
- B. Internal
- C. Physical
- D. Conceptual

Correct Answer: OPTION A

153. Which are the two ways in which entities can participate in a relationship?

- A. Passive and active
- B. Total and partial
- C. Simple and Complex
- D. All of the above

Correct Answer: OPTION B

154. data type can store unstructured data

- A. RAW
- B. CHAR
- C. NUMERIC
- D. VARCHAR

Correct Answer: OPTION A

155. DBMS is a collection of that enables user to create and maintain a database.

- A. Keys
- B. Translators
- C. Program
- D. Language Activity

Correct Answer: OPTION C

156. In a relational schema, each tuple is divided into fields called

- A. Relations
- B. Domains
- C. Queries
- D. All of the above

Correct Answer: OPTION B

157. In an ER model, is described in the database by storing its data.

- A. Entity
- B. Attribute
- C. Relationship
- D. Notation

Correct Answer: OPTION A

158. DFD stands for

- A. Data Flow Document
- B. Data File Diagram
- C. Data Flow Diagram
- D. None of the above

Correct Answer: OPTION C

159. A top-to-bottom relationship among the items in a database is established by a

- A. Hierarchical schema
- B. Network schema
- C. Relational Schema
- D. All of the above

Correct Answer: OPTION A

160. table store information about database or about the system.

- A. SQL
- B. Nested
- C. System
- D. None of these

Correct Answer: OPTION C

161.defines the structure of a relation which consists of a fixed set of attribute-domain pairs.

- A. Instance
- B. Schema
- C. Program
- D. Super Key

Correct Answer: OPTION B

162. clause is an additional filter that is applied to the result.

- A. Select
- B. Group-by
- C. Having
- D. Order by

Correct Answer: OPTION C

163. A logical schema

- A. is the entire database
- B. is a standard way of organizing information into accessible parts.
- C. Describes how data is actually stored on disk.
- D. All of the above

Correct Answer: OPTION B

164. is a full form of SQL.

- A. Standard query language
- B. Sequential query language
- C. Structured query language
- D. Server side query language

Correct Answer: OPTION C

165. A relational database developer refers to a record as

- A. a criteria
- B. a relation
- C. a tuple
- D. an attribute

Correct Answer: OPTION C

166. keyword is used to find the number of values in a column.

- A. TOTAL
- B. COUNT
- C. ADD
- D. SUM

Correct Answer: OPTION B

167. An advantage of the database management approach is

- A. data is dependent on programs
- B. data redundancy increases
- C. data is integrated and can be accessed by multiple programs
- D. none of the above

Correct Answer: OPTION C

INTERMEDIATE

HTML

1. The way the browser displays the object can be modified by _____

- A. attributes
- B. parameters
- C. modifiers
- D. None of above

Correct Answer : OPTION A

2. Which of the following HTML code is valid?

- A.
- B.
- C. <red>
- D. All of above are style tags

Correct Answer : OPTION B

3. Which of the following is an attribute related to font tag?

- A. size

- B. face
 - C. color
 - D. All of above are style tags
- Correct Answer : OPTION D

4. HTML supports
- A. ordered lists
 - B. unordered lists
 - C. both type of lists
 - D. does not support those types
- Correct Answer : OPTION C

5. What tag is used to list individual items of an ordered list?
- A. LI
 - B. OL
 - C. UL
 - D. None of above
- Correct Answer : OPTION A

6. When should you use path along with file name of picture in IMG tag?
- A. path is optional and not necessary
 - B. when the location of image file and html file are different
 - C. when image file and html file both are on same location
 - D. path is always necessary when inserting image
- Correct Answer : OPTION B

7. Which of the following is not a valid alignment attribute?
- A. Left
 - B. Right
 - C. Top
 - D. All of above
- Correct Answer : OPTION C

8. Which attribute is used with img tag to display the text if image could not load in browser?
- A. description
 - B. name
 - C. alt
 - D. id
- Correct Answer : OPTION C

9. Which attribute can be used with BODY tag to set background color green?
- A. background="green"

B. bgcolor="green"

C. vlink="green"

D. None of above

Correct Answer : OPTION B

10. Which attribute you'll use with TD tag to merge two cells horizontally?

A. merge=colspan2

B. rowspan=2

C. colspan=2

D. merge=row2

Correct Answer : OPTION C

11. A webpage displays a picture. What tag was used to display that picture?

A. picture

B. mage

C. img

D. src

Correct Answer : OPTION C

30. Which of the following is not a pair tag?

A. <p>

B. < u >

C. <i>

D.

Correct Answer : OPTION D

PHP

31. Which of the following functions retrieve the entire contents of a file in such a way that it can be used as part of an expression?

A. file_get_contents()

B. fgets()

C. fopen()

D. readfile()

Correct Answer : OPTION A

32. fgets() is used to read a file one line at a time

A. True

B. False

Correct Answer : OPTION A

33. What is the difference between stat() and fstat()?

A. While stat() works on open file pointers, fstat() works on files specified by pathname

B. While fstat() works on open file pointers, stat() works on files specified by pathname

C. fstat() has nothing to do with files

D. stat() has nothing to do with files

Correct Answer : OPTION B

34. flock() is used to unlock a file so that two or more people do not get access to it at the same time.

A. True

B. False

Correct Answer : OPTION B

35. Which of the following functions DOES NOT read the entire contents of a file?

A. fgets()

B. file_get_contents()

C. file()

D. readfile()

Correct Answer : OPTION A

36. What is the purpose of basename() function?

A. Returns the last accessed time of the file

B. Returns the first accessed time of the file

C. Strips of the path and returns the file name.

D. Strips of the path and returns the folder name.

Correct Answer : OPTION C

37. Assuming that image.jpg exists and is readable by PHP, how will the following script be displayed if called directly from a browser?

```
<?php
```

```
header ("Content-type: image/jpeg");
```

```
?>
```

```
<?php
```

```
readfile ("image.jpg");
```

```
?>
```

A. As a JPEG image

- B. As a binary file for display within the browser
- C. As a binary file for download
- D. As a broken image

Correct Answer : OPTION D

38. What should you do if your script is having problem recognizing file endings from a text file saved on a platform different from the one you're reading it on?

- A. Change the auto_detect_line_endings INI setting
- B. Use a regular expression to detect the last letter of a line
- C. Use fpos()
- D. Use ftok()
- E. Read the file one character at a time

Correct Answer : OPTION A

39. The function checks if the "end-of-file" (EOF) has been reached.

- A. f_eof()
- B. f_of()
- C. feofs()
- D. feof()

Correct Answer : OPTION D

40. The function is used to read a single character from a file.

- A. fgetc()
- B. fgets()
- C. fget()
- D. fgetf()

Correct Answer : OPTION A

41. You can test the type of any variable with the function.

- A. whattype()
- B. showtype()
- C. gettype()
- D. settype()

Correct Answer : OPTION C

42. Assigning the empty string (like ' ' to a variable automatically renders it empty.

- A. True
- B. False

Correct Answer : OPTION B

43. If you echo a Boolean variable, the value FALSE displays as a and the value TRUE echoes as a

- A. 0, 1
- B. blank string, 2
- C. empty variable, 1
- D. blank string, 1

Correct Answer : OPTION D

44. When a simple data type is casted to an array, an array is created with the original value in the first element.

- A. True
- B. False

Correct Answer : OPTION A

45. String values must be enclosed in

- A. single quotes
- B. double quotes
- C. both A and B
- D. none of above

Correct Answer : OPTION C

46. PHP does not support numbers written in hexadecimal, octal or scientific notation.

- A. True
- B. False

Correct Answer : OPTION B

47. PHP demand that you declare a data type when you create a variable.

- A. does
- B. does not

Correct Answer : OPTION B

48. strval()

- A. Accepts a value and converts it into a string array
- B. Accepts a value and converts it into an string dictionary
- C. Accepts a value and converts it into string equivalent
- D. None of above

Correct Answer : OPTION C

49. What is the limit of a PHP integer value?

- A. 16384
- B. 65536
- C. 1048576
- D. 2147483647

Correct Answer : OPTION D

50. PHP considers the following values as False

- A. the integer 0
- B. the one-character string 0
- C. constant NULL
- D. All of the mentioned

Correct Answer : OPTION D

HTML

51. What is the full form of HTML?

- A. Hyper text markup language
- B. Hyphenation text markup language
- C. Hyphenation test marking language
- D. Hyper text marking language

Correct Answer : OPTION A

52. What is the full form of HTTP?

- A. Hyper text transfer protocol
- B. Hyper text transfer package
- C. Hyphenation text test program
- D. none of the above

Correct Answer : OPTION A

PYTHON

53. Which of the following statements is used to create an empty set?

- A. {}
- B. set()
- C. [].
- D. ()

Correct Answer : OPTION B

54. What is the output of the following piece of code when executed in the python shell?

```
>>>a={1,2,3}
>>>a.intersection_update({2,3,4,5})
>>>a
```

- A. {2,3}
- B. Error, duplicate item present in list
- C. Error, no method called intersection_update for set data type
- D. {1,4,5}

Correct Answer : OPTION A

55. Which of the following lines of code will result in an error?

- A. s={abs}
- B. s={4, 'abc', (1,2)}
- C. s={2, 2.2, 3, 'xyz'}
- D. s={san}

Correct Answer : OPTION D

56. What is the output of the code shown below?

```
s=set([1, 2, 3])
print(s.union([4, 5])
print(s|([4, 5]))
```

- A. {1, 2, 3, 4, 5}
- {1, 2, 3, 4, 5}
- B. Error
- {1, 2, 3, 4, 5}
- C. {1, 2, 3, 4, 5}

Error

D. Error

Error

Correct Answer : OPTION C

57. What is the output of the line of code shown below, if s1= {1, 2, 3}?

```
s1.issubset(s1)
```

- A. True
- B. Error
- C. No output
- D. False

Correct Answer : OPTION A

58. Suppose `t = (1, 2, 4, 3)`, which of the following is incorrect?

- A. `print(t[3])`
- B. `t[3] = 45`
- C. `print(max(t))`
- D. `print(len(t))`

Correct Answer : OPTION B

59. What will be the output?

```
d = {"john":40, "peter":45}
d["john"]
```

- A. 40
- B. 45
- C. "john"
- D. "peter"

Correct Answer : OPTION A

60. What is the output of the following piece of code when executed in Python shell?

```
a=("Check")*3
a
```

- A. ('Check','Check','Check')
- B. * Operator not valid for tuples
- C. ('CheckCheckCheck')
- D. Syntax error

Correct Answer : OPTION C

61. Is the following piece of code valid?

```
a=2,3,4,5
print(a)
```

- A. Yes, 2 is printed
- B. Yes, [2,3,4,5] is printed
- C. No, too many values to unpack
- D. Yes, (2,3,4,5) is printed

Correct Answer : OPTION D

62. What is the output of the following code?

```
a,b=6,7
a,b=b,a
```

```
print(a,b)
```

A. (6,7)

B. Invalid syntax

C. (7,6)

D. Nothing is printed

Correct Answer : OPTION C

63. What is the output of the code shown below?

```
import math
```

```
[str(round(math.pi)) for i in range (1, 6)]
```

A. ['3', '3', '3', '3', '3', '3']

B. ['3.1', '3.14', '3.142', '3.1416', '3.14159', '3.141582']

C. ['3', '3', '3', '3', '3']

D. ['3.1', '3.14', '3.142', '3.1416', '3.14159']

Correct Answer : OPTION C

64. What is the output of the code shown below?

```
t=32.00
```

```
[round((x-32)*5/9) for x in t]
```

A. [0]

B. 0

C. [0.00]

D. Error

Correct Answer : OPTION D

65. What is the output of the following?

```
print([i.lower() for i in "HELLO"])
```

A. ['h', 'e', 'l', 'l', 'o'].

B. 'hello'

C. ['hello'].

D. hello

Correct Answer : OPTION A

66. Suppose list1 is [3, 5, 25, 1, 3], what is min(list1) ?

A. 3

B. 5

C. 25

D. 1

Correct Answer : OPTION D

67. Suppose list1 is [1, 3, 2], What is list1 * 2 ?

- A. [2, 6, 4].
- B. [1, 3, 2, 1, 3]
- C. [1, 3, 2, 1, 3, 2] .
- D. [1, 3, 2, 3, 2, 1]

Correct Answer : OPTION C

68. What is the output when the following code is executed ?

```
"Welcome to Python".split()
```

- A. ["Welcome", "to", "Python"].
- B. ("Welcome", "to", "Python")
- C. {"Welcome", "to", "Python"}
- D. "Welcome", "to", "Python"

Correct Answer : OPTION A

69. What will be the output?

```
names1 = ['Amir', 'Bala', 'Charlie']  
names2 = [name.lower() for name in names1]  
print(names2[2][0])
```

- A. None
- B. a
- C. b
- D. c

Correct Answer : OPTION D

70. What will be the output?

```
values = [[3, 4, 5, 1], [33, 6, 1, 2]]  
v = values[0][0]  
for lst in values:  
    for element in lst:  
        if v > element:  
            v = element
```

```
print(v)
```

- A. 1
- B. 3
- C. 5

D. 6

Correct Answer : OPTION A

71. What is the output of the following code?

```
import copy
a=[10,23,56,[78]]
b=copy.deepcopy(a)
a[3][0]=95
a[1]=34
print(b)
```

A. [10,34,56,[95]].

B. [10,23,56,[78]].

C. [10,23,56,[95]].

D. [10,34,56,[78]].

Correct Answer : OPTION B

72. What is the output of the following piece of code?

```
a=list((45,)*4)
print((45)*4)
print(a)
```

A.

180

[(45),(45),(45),(45)].

B.

(45,45,45,45).

[45,45,45,45].

C.

180

[45,45,45,45].

D. Syntax error

Correct Answer : OPTION C

73. What is the output of the code shown below?

```
A = [[1, 2, 3],
      [4, 5, 6],
      [7, 8, 9]]
[A[i][len(A)-1-i] for i in range(len(A))]
```

A. [1, 5, 9]

B. [4, 5, 6]

C. [3, 5, 7]

D. [2, 5, 8]

Correct Answer : OPTION C

DBMS

74. The natural join is equal to:

A. Cartesian Product

B. Combination of Union and Cartesian product

C. Combination of selection and Cartesian product

D. Combination of projection and Cartesian product

Correct Answer : OPTION D

75. Which one of the following is not true for a View:

A. View is derived from other tables.

B. View is a virtual table.

C. A view definition is permanently stored as part of the database.

D. View never contains derived columns.

Correct Answer : OPTION C

76. A primary key if combined with a foreign key creates _____.

A. Parent-Child relationship between the tables that connect them.

B. Many to many relationship between the tables that connect them.

C. Network model between the tables that connect them.

D. None of the above

Correct Answer : OPTION A

77. In E-R Diagram relationship type is represented by _____.

A. Ellipse

B. Dashed Ellipsed

C. Rectangle

D. Diamond

Correct Answer : OPTION D

78. Hierarchical model is also called _____.

- A. Tree structure
- B. Plex Structure
- C. Normalize Structure

- D. Table Structure

Correct Answer : OPTION A

79. To delete a particular column in a relation the command used is:

- A. UPDATE
- B. DROP
- C. ALTER
- D. DELETE

Correct Answer : OPTION C

80. The _____ operator is used to compare a value to a list of literals values that have been specified.

- A. BETWEEN
- B. ANY
- C. WHERE
- D. ALL

Correct Answer : OPTION A

81. A logical schema _____.

- A. is the entire database.
- B. is a standard way of organizing information into a accessible part.
- C. describes how data is actually stored on disk.
- D. None of the mentioned.

Correct Answer : OPTION D

82. A B-tree of order m has maximum of _____ children?

- A. m
- B. (m+1)
- C. (m-1)
- D. m/2

Correct Answer : OPTION A

83. _____ function divides one numeric expression by another and returns the remainder.

A. POWER

B. MOD

C. ROUND

D. REMAINDER

Correct Answer : OPTION B

84. A data manipulation command that combines the records from one or more tables is called _____?

A. SELECT

B. PROJECT

C. JOIN

D. PRODUCT

Correct Answer : OPTION C

85. In E-R diagram generalization is represented by _____.

A. Ellipse

B. Dashed ellipse

C. Rectangle

D. Triangle

Correct Answer : OPTION D

86. _____ is a virtual table that draws its data from the result of an SQL SELECT statement.

A. View

B. Synonym

C. Sequence

D. Transaction

Correct Answer : OPTION A

87. The method of access which uses key transformation is known as _____.

A. Direct

B. Hash

- C. Random
- D. Sequential

Correct Answer : OPTION B

88. A table joined with itself is called _____.

- A. Join
- B. Self Join
- C. Outer Join
- D. Equi Join

Correct Answer : OPTION B

89. In the relational modes, cardinality is termed as:

- A. Number of tuples.
- B. Number of attributes.
- C. Number of tables.
- D. Number of constraints.

Correct Answer : OPTION A

90. Relational calculus is a _____?

- A. Procedural language.
- B. Non-Procedural language.
- C. Data definition language.
- D. High level language.

Correct Answer : OPTION B

91. Given the basic ER and relational models, which of the following is INCORRECT?

- A. In a row of a relational table, an attribute can have more than one value
- B. An attribute of an entity can have more than one value
- C. In a row of a relational table, an attribute can have exactly one value or a NULL value
- D. An attribute of an entity can be composite

Correct Answer : OPTION A

92. Cartesian product in relational algebra is _____?

- A. A Unary operator.
- B. A Binary operator.
- C. A Ternary operator.
- D. Not defined.

Correct Answer : OPTION B

93. DML is provided for _____?

- A. Description of logical structure of database.
- B. Addition of new structures in the database system.
- C. Manipulation & processing of database.
- D. Definition of physical structure of database system.

Correct Answer : OPTION C

94. 'AS' clause is used in SQL for _____?

- A. Selection operation.
- B. Rename operation.
- C. Join operation.
- D. Projection operation.

Correct Answer : OPTION B

95. ODBC stands for _____?

- A. Object Database Connectivity.
- B. Oral Database Connectivity.
- C. Oracle Database Connectivity.
- D. Open Database Connectivity.

Correct Answer : OPTION D

96. Which of the following command is used to delete a table in SQL?

- A. delete command
- B. truncate command
- C. drop command
- D. remove command

Correct Answer : OPTION C

97. In a relational model, relations are termed as _____ .

A. Tuples

B. Attributes

C. Tables

D. Rows

Correct Answer : OPTION C

98. The database schema is written in _____ .

A. HLL

B. DML

C. DDL

D. DCL

Correct Answer : OPTION C

99. In the architecture of a database system external level is the _____ .

A. Physical level

B. Logical level

C. Conceptual level

D. View level

Correct Answer : OPTION D

100. An entity set that does not have sufficient attributes to form a primary key is a _____ .

A. Strong entity set

B. Weak entity set

C. Simple entity set

D. Primary entity set

Correct Answer : OPTION B

101. In a Hierarchical model records are organized as _____ ?

A. Graph

B. List

C. Links

D. Tree

Correct Answer : OPTION D

102. In an E-R diagram attributes are represented by _____ .

A. Rectangle

B. Square

C. Ellipse

D. Triangle

Correct Answer : OPTION C

103. In case of entity integrity, the primary key may be _____ .

A. Not Null

B. Null

C. Both Null & not Null.

D. Any value.

Correct Answer : OPTION A

104. Consider Join of a relation R with a relation S. If R has m tuples and S has n tuples, then maximum and minimum sizes of the Join respectively are

A. $m + n$ and 0

B. mn and 0

C. $m + n$ and $|m - n|$

D. mn and $m + n$

Correct Answer : OPTION B

105. For two union compatible relations $R_1(A, B)$ and $R_2(C, D)$, what is the result of the operation $R_1 \bowtie_{A=C \wedge B=D} R_2$?

A. $R_1 \cup R_2$

B. $R_1 \times R_2$

C. $R_1 - R_2$

D. $R_1 \cap R_2$

Correct Answer : OPTION D

106. Relations produced from an E-R model will always be in _____.

A. 1 NF

- B. 2 NF
- C. 3 NF
- D. B CNF

Correct Answer : OPTION C

107. A primary key, if combined with a foreign key creates _____.

- A. parent child relationship between the tables that connect them
 - A. many-to-many relationship between the tables that connect them
 - B. network model between the tables connect them
 - D. none of these

Correct Answer : OPTION A

108. Network models are complicated by physical keys, but the Relation model is _____?

- A. faster because it uses logical keys
 - B. faster because it uses physical keys
 - C. slower because it uses physical keys
 - D. slower because it uses logical keys

Correct Answer : OPTION A

109. A Relational model which allows non-atomic domains is _____.

- A. nested relational data model
 - B. non-atomic data model
 - C. hierarchical data model
 - D. none of these

Correct Answer : OPTION A

110. Which of the following is not true for the traditional approach to information processing?

- A. There is common sharing of data among the various applications
 - B. It is file oriented
 - C. Programs are dependent on the files
 - D. it is inflexible

Correct Answer : OPTION A

111. The database environment has all the following components except _____.

- A. users
 - B. separate files
 - C. database
 - D. database administration

Correct Answer : OPTION B

112. The way a particular application views the data from the database that the application uses is a _____.

- A. module
- B. relational model
- C. schema
- D. subschema

Correct Answer : OPTION D

113. Which of the following is true about Data Manipulation Language(DML)?

- A. DML refers to data using physical addresses
- B. DML cannot interface with high-level programming language
- C. DML is used to define the physical characteristics of each record
- D. None of the mentioned

Correct Answer : OPTION D

114. The relational model uses some unfamiliar terminology. A tuple is a equivalent to _____.

- A. record
- B. field
- C. file
- D. database

Correct Answer : OPTION A

115. Database administrator is, in effect, the coordinator between _____ and _____.

- A. DBMS; Database
- B. Application program; Database
- C. Database; Users
- D. Application programs; Users

Correct Answer : OPTION C

116. A network structure _____.

- A. is a physical representation of the data

- B. allows a many-to-many relationship
- C. is conceptually simple
- D. will be the dominant database of the future

Correct Answer : OPTION B

117. An advantage of the database approach is _____.

- A. elimination of the data redundancy
- B. ability to associate related data
- C. increases security
- D. all of the mentioned.

Correct Answer : OPTION D

118. Which of the following hardware components is the most important to the operation of a database management system?

- A. High resolution video display
- B. Printer
- C. High speed, large-capacity disk
- D. Plotter

Correct Answer : OPTION C

PYTHON

119. Python is said to be easily

- 1. readable language
- 2. writable language
- 3. bug-able language
- 4. script-able language

Correct Answer : OPTION A

120. Extensible programming language that can be extended through classes and programming interfaces is

- 1. Python
- 2. Perl
- 3. PHP
- 4. Ada

Correct Answer : OPTION A

121. Python was released publicly in

1. 1941
2. 1971
3. 1981
4. 1991

Correct Answer : OPTION D

122. The value of the expression:

```
print(4 + 3 % 5)
```

- A. 4
- B. 7
- C. 2
- D. 0

Correct Answer : OPTION B

123. What is the output of the code shown below?

```
def mk(x):  
    def mk1():  
        print("Decorated")  
        x()  
    return mk1  
def mk2():  
    print("Ordinary")  
p = mk(mk2)  
p()
```

- A. Decorated Decorated
- B. Ordinary Ordinary
- C. OrdinaryDecorated
- D. Decorated Ordinary

Correct Answer : OPTION D

124. What is the output of the code shown below?

```
def f(x):
    def f1(a, b):
        print("hello")
        if b==0:
            print("NO")
            return
        return f(a, b)
    return f1
@f
def f(a, b):
    return a%b
f(4,0)
```

- A. hello NO
 - B. hello Zero Division Error
 - C. NO
 - D. hello
- Correct Answer : OPTION A

125. What is the output of the code shown below?

```
def d(f):
    def n(*args):
        return '$' + str(f(*args))
    return n
@d
def p(a, t):
    return a + a*t
print(p(100,0))
```

- A. 100
 - B. \$100
 - C. \$0
 - D. 0
- Correct Answer : OPTION B

126. What is the output of print(k) in the following?

```
k = [print(i) for i in my_string if i not in "aeiou"]
print(k)
```

- A. all characters of my_string that aren't vowels
- B. a list of Nones
- C. list of Trues
- D. list of Falses

Correct Answer : OPTION B

127. What is the output of the code shown below?

```
l1=[2,4,6]
```

```
l2=[-2,-4,-6]
```

```
for i in zip(l1, l2):
```

```
    print(i)
```

- A. 2, -2
- 4, -4
- 6, -6
- B. [(2, -2), (4, -4), (6, -6)]
- C. (2, -2)
(4, -4)
(6, -6)
- D. [-4, -16, -36]

Correct Answer : OPTION C

128. Which of these about a dictionary is false?

- A. The values of a dictionary can be accessed using keys
- B. The keys of a dictionary can be accessed using values
- C. Dictionaries aren't ordered
- D. Dictionaries are mutable

Correct Answer : OPTION B

129. What is the output of the following code?

```
count={}
```

```
count[(1,2,4)] = 5
```

```
count[(4,2,1)] = 7
```

```
count[(1,2)] = 6
```

```
count[(4,2,1)] = 2
```

```
tot = 0
```

```
for i in count:
```

```
    tot=tot+count[i]
```

```
print(len(count)+tot)
```

- A. 25
- B. 17
- C. 16
- D. Tuples can't be made keys of a dictionary

Correct Answer : OPTION C

130. What is the output of the line of code shown below?

```
re.split('\W+', 'Hello, hello, hello.')
```

- A. ['Hello', 'hello', 'hello.']
- B. ['Hello, 'hello', 'hello']
- C. ['Hello', 'hello', 'hello', '.']
- D. ['Hello', 'hello', 'hello', '']

Correct Answer : OPTION D

131. What is the output of the following code?

```
>>> class demo():
    def __repr__(self):
        return '__repr__ built-in function called'
    def __str__(self):
        return '__str__ built-in function called'
>>> s=demo()
>>> s
```

- A. Error
- B. Nothing is printed
- C. __str__ called
- D. __repr__ called

Correct Answer : OPTION D

132. What is the output of the following piece of code?

class A:

```
    def __init__(self, x, y):
        self.x = x
        self.y = y
    def __str__(self):
        return 1
    def __eq__(self, other):
```

```
return self.x * self.y == other.x * other.y
obj1 = A(5, 2)
obj2 = A(2, 5)
print(obj1 == obj2)
A. False
B. 1
C. True
D. An exception is thrown
Correct Answer : OPTION C
```

DBMS WITH MONGODB

133. A collection and a document in MongoDB is equivalent to which of the SQL concepts respectively?

- A. Table and Row
- B. Table and Column
- C. Column and Row
- D. Database and Table

Correct Answer : OPTION A

134. Which is the default mode in which the explain() command runs?

- A. queryPlanner
- B. executionStats
- C. allPlansExecution
- D. customExecutionStats

Correct Answer : OPTION A

135. Which of the following is the most important consideration while designing the schema for MongoDB?

- A. The schema should match the data access and query patterns
- B. The schema should be kept in 3NF similar to SQL schemas
- C. The schema should focus on creating possible embedded documents
- D. The schema should contain maximum indexes

Correct Answer : OPTION A

136. Consider that the posts collection contains an array called ratings which contains ratings given to the post by various users in the following format:

```
{
  _id: 1,
  post_text: "This is my first post",
  ratings: [5, 4, 2, 5],
  //other elements of document
}
```

Which of the following query will return all the documents where the array ratings contains at least one element between 3 and 6?

- A. db.inventory.find({ ratings: { \$elemMatch: { \$gt: 3, \$lt: 6 } } })
- B. db.inventory.find({ ratings: { ratings: { \$gt: 5, \$lt: 9 } } })

C. `db.inventory.find({ ratings: { ratings.$: { $gt: 5, $lt: 9 } } })`
D. `db.inventory.find({ ratings: { $elemMatch: { $gte: 3, $lte: 6 } } })`
Correct Answer : OPTION A

137. What does the `totalKeysExamined` field returned by the `explain` method indicate?
A. Number of documents that match the query condition
B. Number of index entries scanned
C. Number of documents scanned
D. Details the completed execution of the winning plan as a tree of stages
Correct Answer : OPTION B

138. For capped collection, cursors which do not automatically close and remain open after the client exhausts the results are called:
A. Capped Cursors
B. Tailable Cursors
C. Open Cursors
D. Indexing Cursors
Correct Answer : OPTION B

139. Consider that you have a collection called `population` which has fields `state` and `city`. Which of the following query will calculate the population grouped by state and city?
A. `db.population.aggregate([{ $group: { _id: { state: "$state", city: "$city" }, pop: { $sum: "$pop" } } }])`
B. `db.population.aggregate([{ $group: { _id: { state: "$state", city: "$city" }, pop: { $sum: 1 } } }])`
C. `db.population.aggregate([{ $group: { _id: { state: "$state", city: "$city" }, pop: { $pop: 1 } } }])`
D. `db.population.aggregate([{ $group: { _id: { city: "$city" }, pop: { $sum: "$pop" } } }])`
Multi Document Transaction is not supported by MongoDB
Correct Answer : OPTION A

140. In a replica set, a _____ number of members ensures that the replica set is always able to select a primary.
A. Odd
B. Even
C. Depends on the application architecture
D. 2
Correct Answer : OPTION A

141. Consider that you have the following two documents in the `products` collection:
`{ "_id": 1, "prices": [60, 100, 200] }`
`{ "_id": 2, "prices": [20, 90, 150] }`
What will the following query result into:
`db.products.update(`
 `{ _id: 1, prices: 100 },`
 `{ $set: { "prices.$" : 111 } }`
`)`
A. Updates 60 to 100

- B. Updates 100 to 111
- C. Updates 60,100 and 200 to 111
- D. Removes the three elements of the prices array and replaces it with only a single element 111

Correct Answer : OPTION B

142. What does the following \$slice query return using the following command?

```
db.posts.find( {}, { comments: { $slice: [.10, 5 ] } } )
```

- A. Returns 5 comments, beginning with the last 10 items
- B. Returns 10 comments, beginning with the first
- C. Returns 10 comments, beginning with the last
- D. Returns 5 comments, beginning with the first 10 items

Correct Answer : OPTION A

143. What kind of database MongoDB is?

- A. Graph Oriented
- B. Document Oriented
- C. Key Value Pair
- D. Column Based

Correct Answer : OPTION B

144. Which of the following is correct about MongoDB?

- A. MongoDB uses JSON format to represent documents
- B. MongoDB supports collection joins
- C. MongoDB supports some of the SQL functions
- D. MongoDB supports geospatial indexes

Correct Answer : OPTION D

145. Which of the following is a valid MongoDB JSON document:

A

```
{}
```

B

```
{
```

```
  "user_id"=1,  
  "user_name"="Joe Sanders",  
  "occupation"=["engineer", "writer"]
```

```
}
```

C

```
{
```

```
  "user_id":1;  
  "user_name": "Joe Sanders";  
  "occupation":["engineer", "writer"]
```

```
}
```

D

```
{
```

```
  "user_id":1,  
  "user_name": "Joe Sanders",  
  "occupation":[
```

```
        "occupation1":"engineer",
        "occupation2":"writer"
    ]
}
```

Correct Answer : OPTION A

146. Which of the following is correct explanation of MongoDB processes?

- A. mongod.exe is the shell process and mongo.exe is the actual database process
- B. mongo.exe is the shell process and mongod.exe is the actual database process
- C. mongos.exe is the MongoDB server process needed to run database
- D. mongodump.exe can be used to import database backup dump

Correct Answer : OPTION B

147. Consider a collection posts which has fields: `_id`, `post_text`, `post_author`, `post_timestamp`, `post_tags` etc. Which of the following query retrieves ONLY the key named `post_text` from the first document retrieved?

- A. `db.posts.find({}, {_id:0, post_text:1})`
- B. `db.posts.findOne({post_text:1})`
- C. `db.posts.findOne({}, {post_text:1})`
- D. `db.posts.findOne({}, {_id:0, post_text:1})`

Correct Answer : OPTION D

148. Which of the following is incorrect statement about `find` and `findOne` operations in MongoDB?

- A. `find()` returns all the documents in a collection while `findOne()` retrieves only the first one.
- B. `find()` and `findOne()` returns cursors to the collection documents
- C. `findOne()` returns the actual first document retrieved from a collection
- D. `find.limit(1)` is not the same query as `findOne()`

Correct Answer : OPTION B

149. In a collection that contains 100 post documents, what does the following command do?

```
db.posts.find().skip(5).limit(5)
```

- A. Skip and limit nullify each other. Hence returning the first five documents.
- B. Skips the first five documents and returns the sixth document five times
- C. Skips the first five documents and returns the next five
- D. Limits the first five documents and then return them in reverse order

Correct Answer : OPTION C

150. Which of the following MongoDB query is equivalent to the following SQL query:
UPDATE users SET status = "C" WHERE age > 25

A

```
db.users.update(  
  { age: { $gt: 25 } },  
  { status: "C" })
```

B

```
db.users.update(  
  { age: { $gt: 25 } },  
  { $set: { status: "C" } })
```

C

```
db.users.update(  
  { age: { $gt: 25 } },  
  { $set: { status: "C" } },  
  { multi: true })
```

D

```
db.users.update(  
  { age: { $gt: 25 } },  
  { status: "C" },  
  { multi: true })
```

Correct Answer : OPTION C

153. Within how much time does MongoDB writes are written to the journal?

A. 60 s

B. 100 ms

C. 1 s

D. 100 s

Correct Answer : OPTION B

154. Which of the following is true about sharding?

A. Sharding is enabled at the database level

B. Creating a sharded key automatically creates an index on the collection using that key

C. We cannot change a shard key directly/automatically once it is set up

D. A sharded environment does not support sorting functionality since the documents lie on various mongod instances

Correct Answer : OPTION C

155. What is the maximum size of a MongoDB document?

A. 2 MB

B. 16 MB

C. 12 MB

D. There is no maximum size. It depends on the RAM.

Correct Answer : OPTION B

156. What is the maximum size of Index Key Limit and Number of Indexes per collection?

A. 64 bytes and 1024 indexes

B. 12 mega bytes and 64 indexes

C. 1024 bytes and 64 indexes

D. 1024 bytes and unlimited indexes

Correct Answer : OPTION C

157. What is the output of the following program?

A. 60 s

B. 100 ms

C. 1 s

D. 100 s

Correct Answer : OPTION A

158. Which of the following commands finds all the documents in the posts collection with post timestamp field as null?

A. `db.posts.find({ post_timestamp : { $type: 10 } })`

B. `db.posts.find({ post_timestamp: { $type: null } })`

C. `db.posts.find({ post_timestamp: { $fieldtype: 10 } })`

D. `db.posts.find({ post_timestamp: { $fieldtype: null } })`

Correct Answer : OPTION A

159. mongoimport command is used to:

A. import all the data from one database to another

B. import all the data from one collection to another

C. imports content from an Extended JSON, CSV, or TSV export created by mongo export

D. import all the MongoDB data from one format to another

Correct Answer : OPTION C

160. Which of the following command can be used in mongo shell to show all the databases in your MongoDB instance?

A. show dbs

- B. show databases
- C. show dbs.all
- D. ls dbs

Correct Answer : OPTION A

161. Which of the following replica sets vote in the election of a primary replica set?

- A. Secondary
- B. Hidden
- C. Delayed
- D. All of the mentioned

Correct Answer : OPTION D

162. Which of the following command can be used to check the size of a collection named posts?

- A. db.posts.stats()
- B. db.posts.findStats()
- C. db.posts.find({stats:1})
- D. db.stats({ collection : posts })

Correct Answer : OPTION A

163. Which of the following commands can cause the database to be locked?

- A. Issuing a query
- B. Inserting data
- C. Map-reduce
- D. All of the mentioned

Correct Answer : OPTION D

164. By default, the MongoDB cursor in mongo shell is configured to return how many documents? To get the next set of documents, which command is used?

- A. 20, it
- B. 200, more
- C. 50, it
- D. No limit, none

Correct Answer : OPTION A

165. Which of the following commands will return all the posts with number of likes greater than 100 and less than 200, both inclusive?

- A. `db.posts.find({ likes : { $gt : 100, $lt : 200 } });`
- B. `db.posts.find({ likes : { $gte : 100, $lt : 200 } });`
- C. `db.posts.find({ likes : { $gt : 100 , $lte : 200 } });`
- D. `db.posts.find({ likes : { $gte : 100 , $lte : 200 } });`

Correct Answer : OPTION D

166. In our posts collection, which command can be used to find all the posts whose author names begin lie between A and C in dictionary order?

- A. `db.posts.find({ post_author : { $gte : "A" , $lte : "C" } });`
- B. `db.posts.find({ post_author : { $gte : "C" , $lte : "A" } });`
- C. `db.posts.find({ post_author : { $gt : "A" , $lt : "C" } });`
- D. This type of search is not supported by MongoDB. \$lt and \$gt operators are applicable only for numeric values.

Correct Answer : OPTION A

ADVANCED

HTML

1. What is a search engine?

- A. a program that searches engines
- B. a website that searches anything
- C. a hardware component
- D. a machinery engine that search data

Correct Answer : OPTION B

2. What is the full form of TCP/IP?

- A. transmission control protocol / internet protocol
- B. telephone call protocol / international protocol
- C. transport control protocol / internet protocol
- D. none of the above

Correct Answer : OPTION A

3. HTML document start and end with which tag pairs?

- A. <HEAD>....</HEAD>
- B. <BODY>....</BODY>
- C. <HTML>....</HTML>
- D. <WEB>....</WEB>

Correct Answer : OPTION C

4. Which tag is used to create body text in HTML?

- A. <HEAD>
- B. <TEXT>
- C. <TITLE>
- D. <BODY>

Correct Answer : OPTION D

5. "Yahoo", "Infoseek" and "Lycos" are _____?

- A. Search Engines
- B. Browsers
- C. News groups
- D. None of the above

Correct Answer : OPTION A

6. What does the .com domain represents?

- A. Education domain
- B. Commercial domain
- C. Network
- D. None of the above

Correct Answer : OPTION B

7. In Satellite based communication, VSAT stands for?

- A. Very Small Aperture Terminal
- B. Varying Size Aperture Terminal
- C. Very Small Analog Terminal
- D. None of the above

Correct Answer : OPTION A

8. Outlook Express is a _____

- A. E-Mail Client
- B. Browser
- C. SearchEngine
- D. None of the above

Correct Answer : OPTION A

9. <TITLE> ... </TITLE> tag must be within _____

- A. Title
- B. Form
- C. Header
- D. Body

Correct Answer : OPTION C

10. Text within ... tag is displayed as _____

- A. bold
- B. italic
- C. list
- D. indented

Correct Answer : OPTION B

11. Text within ... tag is displayed as _____

- A. bold
- B. italic
- C. list
- D. indented

Correct Answer : OPTION A

12. ... tag is used to _____

- A. display the numbered list
- B. underline the text
- C. display the bulleted list
- D. bold the text

Correct Answer : OPTION C

13. Which tag is used to display the numbered list?

- A.
- B. <DL></DL>
- C.
- D.

Correct Answer : OPTION A

14. Which tag is used to display the large font size?

- A. <LARGE></LARGE>
- B. <BIG></BIG>
- C. < SIZE ></SIZE>
- D.

Correct Answer : OPTION B

15. <SCRIPT> ... </SCRIPT> tag can be placed within _____

- A. Header
- B. Body
- C. both A and B
- D. none of the above

Correct Answer : OPTION C

16. using <P> tag will

- A. start a new paragraph
- B. break the line
- C. end the current paragraph
- D. none of the mentioned

Correct Answer : OPTION A

17. <TD> ... </TD> tag is used for _____

- A. Table heading
- B. Table Records
- C. Table row
- D. none of the above

Correct Answer : OPTION B

18. Which is true to change the text color to red?

- A. <BODY BGCOLOR=RED>
- B. <BODY TEXT="RED">
- C. <BODY COLOR=RED>
- D. none of the mentioned

Correct Answer : OPTION B

19. With regards to e-mail addresses:

- A. they must always contain an @ symbol
- B. they can never contain spaces
- C. they are case-insensitive
- D. all of the mentioned

Correct Answer : OPTION D

20. A homepage is _____

- A. an index of encyclopedia articles
- B. where all Internet data is stored
- C. required for access to the Internet
- D. the first page of a website

Correct Answer : OPTION D

21. Which of the following is used to explore the Internet?

- A. Browser
- B. Spreadsheet
- C. Clipboard
- D. Draw

Correct Answer : OPTION A

22. What is Internet Explorer?

- A. An Icon
- B. A File Manager
- C. A Browser
- D. The Internet

Correct Answer : OPTION C

23. What do I need to get onto the Internet?

- A. Computer
- B. Modem
- C. Browser
- D. All of the mentioned

Correct Answer : OPTION D

24. What is an ISP?

- A. Internet System Protocol--Spelling mistakes Correction
- B. Internal System Program--Spelling mistakes Correction
- C. Internet Service Provider
- D. None of the above

Correct Answer : OPTION C

25. Which of the following is valid IP address?

- A. 984.12.787.76
- B. 192.168.321.10
- C. 1.888.234.3456
- D. 192.168.56.115

Correct Answer : OPTION D

26. Which is not a domain name extension

- A. mil
- B. org
- C. .int
- D. .com

Correct Answer : OPTION C

27. What is a FTP program used for?

- A. Transfer files to and from an Internet Server
- B. Designing a website
- C. Connecting to the internet
- D. None of the above

Correct Answer : OPTION A

28. Which of the following are commonly found on web pages?

- A. Internet
- B. hyperlinks
- C. intranet
- D. all of the above

Correct Answer : OPTION B

29. What is the correct syntax in HTML for creating a link on a webpage?

- A. <LINK SRC= "mcqsets.html">
- B. <BODY LINK = "mcqsets.html">
- C.
- D. < A HREF = "mcqsets.html">

Correct Answer : OPTION D

30. Which of the following is an attribute of <Table> tag?

- A. SRC
- B. LINK
- C. CELLPADDING
- D. BOLD

Correct Answer : OPTION C

31. Choose the correct HTML tag to make the text bold?

- A.
- B. <BOLD>
- C.
- D. Both A and C.

Correct Answer : OPTION D

32. Which HTML tag would be used to display power in expression $(A+B)^2$?

- A. <SUP>
- B. <SUB>
- C.
- D. <P>

Correct Answer : OPTION A

33. Choose the correct HTML code to create an email link?

- A.
- B.
- C. <MAIL>admin@mcqsets.com </MAIL>
- D. MAIL HREF = " ">

Correct Answer : OPTION B

34. Choose the correct HTML tag for the largest heading?

- A. <H1>
- B. <H6>
- C. <H10>
- D. <HEAD>

Correct Answer : OPTION A

35. Output of XML document can be viewed in a

- A. Word Processor
- B. Web browser
- C. Notepad
- D. None of the above

Correct Answer : OPTION B

36. What is the correct way of describing XML data?

- A. XML uses a DTD to describe data
- B. XML uses a description node to describe data
- C. XML uses XSL to describe the data
- D. XML uses a validator to describe the data

Correct Answer : OPTION C

37. Comments in XML document is given by:

- A. <?-- __ -->
- B. <!_ _ _ _ !>
- C. <!_ _ _ _ >
- D. </_ _ _ _ >

Correct Answer : OPTION C

38. Which statement is true?

- A. An XML document can have one root element
- B. An XML document can have one child element
- C. XML elements have to be in lowercase
- D. All of the above

Correct Answer : OPTION A

PHP

39. converts the keys of an array into values and the values into keys.

- A. array_flips()
- B. array_transpose()
- C. array_trans()
- D. array_flip()

Correct Answer : OPTION D

40. usleep(1000000);

Above usleep() function pauses PHP for

- A. 1 second
- B. 1 microseconds
- C. 10 seconds
- D. 100 microseconds

Correct Answer : OPTION A

41.

```
$array = array(0, 1, 2);
```

```
$array = array_pad($array, -6, 'NEW');
```

Output will be:

- A. Array ([1] => NEW [2] => NEW [3] => NEW [4] => 0 [5] => 1 [6] => 2)
- B. Array ([-1] => NEW [-2] => NEW [-3] => NEW [-4] => 0 [-5] => 1 [-6] => 2)
- C. Array ([0] => NEW [-1] => NEW [-2] => NEW [-3] => 0 [-4] => 1 [-5] => 2)
- D. Array ([0] => NEW [1] => NEW [2] => NEW [3] => 0 [4] => 1 [5] => 2)

Correct Answer : OPTION D

42. phpinfo() will display about

- A. OS version information
- B. PHP installation
- C. Variables
- D. HTTP headers
- E. all of the mentioned

Correct Answer : OPTION E -- change the answer

43. returns a new DateTime object.

- A. getdate()
- B. date_create()
- C. date_sunrise()
- D. date()

Correct Answer : OPTION B

44. It is always necessary to use parentheses with the print function.

A. True

B. False

Correct Answer : OPTION B

45.

```
$Var = substr("abcdef", -4, 1);
```

The above statement will return

A. returns "f"

B. returns "d"

C. returns "c"

D. returns "cd"

Correct Answer : OPTION C

46. Returning values from functions may include

A. Arrays

B. Objects

C. Both A & B

D. None of above

Correct Answer : OPTION C

47. The arguments in a function are evaluated from

A. left to right

B. right to left

C. sometimes left to right and sometimes right to left

Correct Answer : OPTION A

48. strlen() returns the length of the string on success and if the string is empty.

A. -1

B. NULL

C. Garbage value

D. 0

Correct Answer : OPTION D

49. PHP sessions are created using the function.

A. session_starts()

B. sessions_start()

C. session_start()

D. none of above

Correct Answer : OPTION C

50. When you want to store user data in a session use the array.

- A. \$_SESSION
- B. SYS_SESSION
- C. \$SESSION
- D. \$_SESSIONS

Correct Answer : OPTION A

51. Sessions allow you to

- A. store persistent user preference on a site
- B. save user authentication information from page to page
- C. create multipage forms
- D. all of above

Correct Answer : OPTION D

52. A snapshot of the session data can be taken at any time and written out to a file.

- A. True
- B. False

Correct Answer : OPTION A

53. When the session data is written to a file, it can be read back, decoded and applied to the current session using the function.

- A. session_reset()
- B. session_get_cookie_params()
- C. session_encode()
- D. session_decode()

Correct Answer : OPTION D

54. session_destroy() instantly destroy elements of the \$_SESSION array.

- A. True
- B. False

Correct Answer : OPTION B

55. Appending session data to an absolute URL does not represent a security risk.

- A. True
- B. False

Correct Answer : OPTION B

56. If the php.ini register_globals directive is set, session data becomes available in the namespace.

A. Global

B. Local

Correct Answer : OPTION A

57. No expiry date is set in the cookie that PHP sets for the session. The session remains current only as long as the browser is active. When the browser is restarted the cookie is not stored. This behavior can be changed by altering setting in php.ini file.

A. cookie_lifetime

B. session.cookie_life_time

C. session.cookie_lifetime

D. cookie_life_time

Correct Answer : OPTION C

58. session_destroy() erases all session variable.

A. True

B. False

Correct Answer : OPTION A

59. A valid class name starts with a, followed by any number of letters, numbers, or underscores.

A. Number

B. Letter

C. Period

D. Underscore

Correct Answer : OPTION B,C

60. PHP makes it possible to automatically execute code when a new instance of a class is created, using a special class method called a

A. destructor

B. constructor

C. friend

D. initial

Correct Answer : OPTION B

61. Once a class has been defined, objects can be created from the class with the keyword.

A. new object

- B. construct
- C. new
- D. both A and C

Correct Answer : OPTION C

62. The visibility of a property or method can be defined by prefixing the declaration with the keywords public, protected or private. Class members declared public can be accessed everywhere. Members declared protected can be accessed only within the class itself and by inherited classes. Members declared as private are not accessible.

- A. True
- B. False

Correct Answer : OPTION B

63. All PHP classes come with a default constructor that takes arguments.

- A. one
- B. two
- C. three
- D. no

Correct Answer : OPTION D

64. You access an object's properties and methods using the operator (a hyphen followed by a greater than symbol).

- A. >>
- B. =>
- C. ->
- D. none of the mentioned

Correct Answer : OPTION C

65. When you extend a class, the subclass inherits all of the methods from the parent class.

- A. Public
- B. private
- C. protected
- D. both A and C

Correct Answer : OPTION D

66. The pseudo-variable is available inside any class method when that method is called from within an object context.

- A. \$construct
- B. #this
- C. \$those
- D. \$this

Correct Answer : OPTION D

67. A class may contain its own

- A. variables
- B. functions
- C. constants
- D. both A and B
- E. all of the mentioned

Correct Answer : OPTION E

68. Child classes are defined using the keyword

- A. extends
- B. extents
- C. child_class
- D. extend_class

Correct Answer : OPTION A

69. PHP recognises constructors by the name

- A. _construct
- B. __construct
- C. ___constructor
- D. _constructor

Correct Answer : OPTION B

70. In constructors, it is important to remember that you have to call the parent constructor explicitly.

- A. Singleton
- B. secure
- C. public
- D. subclass

Correct Answer : OPTION D

71. Constructor and destructor methods have no and are called automatically - they cannot be called explicitly and consequently their declarations need no access specifier.

- A. parameters
- B. destructor
- C. return value
- D. approval

Correct Answer : OPTION C

72. Unlike constructors, you cannot pass information to a destructor, because you are never sure when its going to be run.

- A. True
- B. False

Correct Answer : OPTION A

73. You can invoke class constructors that don't have any relation to the instantiated object by simply prefacing `__construct` with the class name like

- A. `classname::__construct()`
- B. `classname:__construct()`
- C. `classname=>__construct()`
- D. `classname->__construct()`

Correct Answer : OPTION A

74. is a class which can only be instantiated once. You can effectively only have one object per class in an application.

- A. Constructor, Singleton
- B. Singleton, Constructor
- C. Singleton, Singleton
- D. Loader, Loader

Correct Answer : OPTION C

75. Even if you don't delete the object yourself using , PHP still calls the destructor when it determines that the object is no longer used.

- A. destructor
- B. `del()`
- C. `rem()`
- D. `unset()`

Correct Answer : OPTION D

76. You can overwrite a Singleton with the wrong kind of data.

- A. True
- B. False

Correct Answer : OPTION B

77.

https://1.bp.blogspot.com/-e4RCd8t6gUU/Wob_pQxHHNI/AAAAAAAAACZo/QBBF_4utyVMYI6XX4eQglamSiZ5kWtTGQCLcBGAs/s1600/php-constructors.png

Because the constructor is called each time you create an object, this code produces the following output:

- A.
Constructor called with parameter One
Constructor called with parameter Two
 - B.
Constructor is called with parameter One
 - C.
Constructor is called with parameter One
Constructor is called with parameter Two
 - D.
Constructor is called with parameter Two
- Correct Answer : OPTION C

78. PHP have not yet supported constructor overloading.

- A. True
 - B. False
- Correct Answer : OPTION A

79. Which of the following DBMSs do not have a native PHP extension?

- A. MySQL
 - B. IBM DB/2
 - C. PostgreSQL
 - D. Microsoft SQL Server
 - E. None of the above
- Correct Answer : OPTION E

80. In PHP in order to access MySQL database you will use:

- A. mysqlconnect() function
 - B. mysql-connect() function
 - C. mysql_connect() function
 - D. sql_connect() function
- Correct Answer : OPTION C

81. Transactions are used to treat sets of SQL statements atomically.

- A. True
 - B. False
- Correct Answer : OPTION A

82. SQL is not case sensitive. SELECT is the same as select.

- A. True
- B. False

Correct Answer : OPTION A

83. Which of the following is not an SQL aggregate function?

- A. AVG
- B. SUM
- C. MIN
- D. MAX
- E. CURRENT_DATE()

Correct Answer : OPTION E

84. What does the DESC keyword do in the following query?

```
SELECT *  
FROM MY_TABLE  
WHERE ID > 0  
ORDER BY ID, NAME DESC
```

- A. It causes the dataset returned by the query to be sorted in descending order
- B. It causes rows with the same ID to be sorted by NAME in ascending order
- C. It causes rows with the same ID to be sorted by NAME in descending order
- D. It causes rows to be sorted by NAME first and then by ID
- E. It causes the result set to include a description of the NAME field

Correct Answer : OPTION C

85. The statement is used to delete a table.

- A. DROP TABLE
- B. DELETE TABLE
- C. DEL TABLE
- D. REMOVE TABLE

Correct Answer : OPTION A

86. What will happen at the end of the following sequence of SQL commands?

```
BEGIN TRANSACTION  
DELETE FROM MYTABLE WHERE ID=1  
DELETE FROM OTHERTABLE  
ROLLBACK TRANSACTION
```

- A. The contents of OTHERTABLE will be deleted
- B. The contents of both OTHERTABLE and MYTABLE will be deleted
- C. The contents of OTHERTABLE will be deleted, as will be all the contents of MYTABLE whose ID is 1
- D. The database will remain unchanged to all users except the one that executes these queries.

E. The database will remain unchanged

Correct Answer : OPTION E

87. Use the to delete the data inside the table, and not the table itself?

A. DROP TABLE

B. DELETE TABLE

C. TRUNCATE TABLE

D. REMOVE TABLE

Correct Answer : OPTION C

88. Can joins be nested?

A. True

B. False

Correct Answer : OPTION A

PYTHON

89. What is the output of the code shown below if the system date is 18th August, 2016?

```
tday=datetime.date.today()
```

```
print(tday.month())
```

A. August

B. Aug

C. 08

D. 8

Correct Answer : OPTION D

90. What is the output of the following code, if the time module has already been imported?

```
def num(m):
```

```
    t1 = time.time()
```

```
    for i in range(0,m):
```

```
        print(i)
```

```
    t2 = time.time()
```

```
    print(str(t2-t1))
```

```
num(3)
```

A.

1

2

3

The time taken for the execution of the code

B.

3

The time taken for the execution of the code

C.

1

2

3

UTC time

D.

3

UTC time

Correct Answer : OPTION A

91. What is the output of the code shown below?

```
l=[-2, 4]
```

```
m=map(lambda x:x*2, l)
```

```
print(m)
```

A. [-4, 16]

B. Address of m

C. Error

D.

-4

16

Correct Answer : OPTION B

92. What is the output of the following?

```
def to_upper(k):
```

```
    k.upper()
```

```
x = ['ab', 'cd']
```

```
print(list(map(to_upper, x)))
```

A. ['AB', 'CD'].

B. ['ab', 'cd'].

C. none of the mentioned

D. error

Correct Answer : OPTION C

93. What is the output of the following?

```
x = [12, 34]
```

```
print(len("".join(list(map(str, x)))))
```

A. 4

B. 5

C. 6

D. Error

Correct Answer : OPTION A

94. What is the output of the following?

```
x = abcd
```

```
print(list(map(list, x)))
```

A. ['a', 'b', 'c', 'd'].

B. ['abcd'].

C. [['a'], ['b'], ['c'], ['d']].

D. none of the mentioned

Correct Answer : OPTION D

95. Is the output of the function `abs()` the same as that of the function `math.fabs()`?

A. sometimes

B. always

C. never

D. none of the mentioned

Correct Answer : OPTION A

96. What is returned by `math.isfinite(float('nan'))`?

A. True

B. False

C. None

D. error

Correct Answer : OPTION B

97. What is the default base used when `math.log(x)` is found?

A. e

B. 10

C. 2

D. none of the mentioned

Correct Answer : OPTION A

98. What does `os.getlogin()` return?

- A. name of the current user logged in
- B. name of the superuser
- C. gets a form to login as a different user
- D. all of the above

Correct Answer : OPTION A

99. What is the output of the line of code shown below?

```
pickle.HIGHEST_PROTOCOL
```

- A. 4
- B. 5
- C. 3
- D. 6

Correct Answer : OPTION A

100. Which of the following is true about top-down design process?

- A. The details of a program design are addressed before the overall design
- B. Only the details of the program are addressed
- C. The overall design of the program is addressed before the details
- D. Only the design of the program is addressed

Correct Answer : OPTION C

101. What is the output of the function shown below (random module has already been imported)?

```
random.choice('sun')
```

- A. sun
- B. u
- C. either s, u or n
- D. error

Correct Answer : OPTION C

102. Which of the following will not be returned by `random.choice("1 ,")`?

- A. 1
- B. (space)
- C. ,
- D. none of the mentioned

Correct Answer : OPTION D

103. What is the output of this code?

```
import sys
eval(sys.stdin.readline())
"India"
```

- A. India5
- B. India
- C. 'India\n'
- D. 'India'

Correct Answer : OPTION D

104. Which of the following functions does not accept any arguments?

- A. position
- B. fillcolor
- C. goto
- D. setheading()

Correct Answer : OPTION A

105. What is the output of the following code?

```
import turtle
t=turtle.Pen()
t.right(90)
t.forward(100)
t.heading()
```

- A. 0.0
- B. 90.0
- C. 270.0
- D. 360.0

Correct Answer : OPTION C

106. The output of the code shown is similar to the alphabet _____

```
import turtle
t=turtle.Pen()
t1=turtle.Pen()
t2=turtle.Pen()
t.forward(100)
```



```
t1.forward(100)
t2.forward(100)
t1.left(90)
t1.forward(75)
t2.right(90)
t2.forward(75)
```

- A. X
- B. N
- C. T
- D. M

Correct Answer : OPTION C

107. What is setattr() used for?

- A. To access the attribute of the object
- B. To set an attribute
- C. To check if an attribute exists or not
- D. To delete an attribute

Correct Answer : OPTION B

108. What are the methods which begin and end with two underscore characters called?

- A. Special methods
- B. In-built methods
- C. User-defined methods
- D. Additional methods

Correct Answer : OPTION A

109. Which of these is a private data field?

def Demo:

```
def __init__(self):
```

```
    __a = 1
```

```
    self.__b = 1
```

```
    self.__c__ = 1
```

```
    __d__ = 1
```

- A. __a
- B. __b
- C. __c__
- D. __d__

Correct Answer : OPTION B

110. When will the else part of try-except-else be executed?

- A. always
- B. when an exception occurs
- C. when no exception occurs
- D. when an exception occurs in to except block

Correct Answer : OPTION C

111. What is the output of the code shown below?

```
def f(x):  
    yield x+1  
    print("test")  
    yield x+2
```

g=f(9)

- A. Error
- B. test
- C.

test

10

12

- D. No output

Correct Answer : OPTION D

112. The output of the code shown below is:

```
int('65.43')
```

- A. ImportError
- B. ValueError
- C. TypeError
- D. NameError

Correct Answer : OPTION B

113. What is the output of the following piece of code?

```
class A():  
    def disp(self):  
        print("A disp()")
```

```
class B(A):  
    pass
```

```
obj = B()
```

```
obj.disp()
```

- A. Invalid syntax for inheritance
- B. Error because when object is created, argument must be passed
- C. Nothing is printed
- D. A disp()

Correct Answer : OPTION D

114. Which of the following statements is true?

- A. The `__new__()` method automatically invokes the `__init__` method
- B. The `__init__` method is defined in the object class
- C. The `__eq(other)` method is defined in the object class
- D. The `__repr__()` method is defined in the object class

Correct Answer : OPTION C

115. Which function overloads the `==` operator?

- A. `__eq__()`
- B. `__equ__()`
- C. `__isequal__()`
- D. none of the mentioned

Correct Answer : OPTION A

116. What is the output of the following piece of code?

```
class Demo:
    def __init__(self):
        self.x = 1
    def change(self):
        self.x = 10
class Demo_derived(Demo):
    def change(self):
        self.x=self.x+1
        return self.x
def main():
    obj = Demo_derived()
    print(obj.change())
```

main()

- A. 11
- B. 2
- C. 1
- D. An exception is thrown

Correct Answer : OPTION D

DBMS

117. The_____condition allows a general predicate over the relations being joined.

- A. On
- B. Using
- C. Set
- D. Where

Correct Answer : OPTION A

118. Which of the join operations do not preserve non matched tuples.

- A. Left outer join
- B. Right outer join
- C. Inner join

Correct Answer : OPTION C

119. What type of join is needed when you wish to include rows that do not have matching values?

- A. Equi-join
- B. Natural join
- C. Outer join
- D. All of the mentioned

Correct Answer : OPTION C

120. How many tables may be included with a join?

- A. One
- B. Two
- C. Three
- D. All of the mentioned

Correct Answer : OPTION D

121. Which are the join types in join condition:

- A. Cross join
- B. Natural join
- C. Join with USING clause

D. All of the mentioned
Correct Answer : OPTION D

122. How many join types in join condition:

- A. 2
- B. 3
- C. 4
- D. 5

Correct Answer : OPTION D

123. Which join refers to join records from the right table that have no matching key in the left table are include in the result set:

- A. Left outer join
- B. Right outer join
- C. Full outer join
- D. Half outer join

Correct Answer : OPTION B

124. The operation which is not considered a basic operation of relational algebra is

- A. Join
- B. Selection
- C. Union
- D. Cross product

Correct Answer : OPTION A

125. In SQL the statement select * from R, S is equivalent to

- A. Select * from R natural join S
- B. Select * from R cross join S
- C. Select * from R union join S
- D. Select * from R inner join S

Correct Answer : OPTION B

126. A relational database consists of a collection of

- A. Tables
- B. Fields

C. Records

D. Keys

Correct Answer : OPTION A

127. A _____ in a table represents a relationship among a set of values.

A. Column

B. Key

C. Row

D. Entry

Correct Answer : OPTION C

128. The term _____ is used to refer to a row.

A. Attribute

B. Tuple

C. Field

D. Instance

Correct Answer : OPTION B

129. The term attribute refers to a _____ of a table.

A. Record

B. Column

C. Tuple

D. Key

Correct Answer : OPTION B

130. For each attribute of a relation, there is a set of permitted values, called the _____ of that attribute.

A. Domain

B. Relation

C. Set

D. Schema

Correct Answer : OPTION A

131. Database _____ , which is the logical design of the database, and the database _____, which is a snapshot of the data in the database at a given instant in time.

- A. Instance, Schema
- B. Relation, Schema
- C. Relation, Domain
- D. Schema, Instance

Correct Answer : OPTION D

132. A domain is atomic if elements of the domain are considered to be _____ units.

- A. Different
- B. Indivisible
- C. Constant
- D. Divisible

Correct Answer : OPTION B

133. The tuples of the relations can be of _____ order.

- A. Any
- B. Same
- C. Sorted
- D. Constant

Correct Answer : OPTION A

134. Using which language can a user request information from a database ?

- A. Query
- B. Relational
- C. Structural
- D. Compiler

Correct Answer : OPTION A

135. Student(ID, name, dept name, tot_cred) In this query which attribute form the primary key?

- A. Name
- B. Dept
- C. Tot_cred
- D. ID

Correct Answer : OPTION D

136. The_____ operation allows the combining of two relations by merging pairs of tuples, one from each relation, into a single tuple.

- A. Select
- B. Join
- C. Union
- D. Intersection

Correct Answer : OPTION B

137. A specifies the actions needed to remove the drawbacks in the current design of a database.

- A. 1 NF
- B. 2 NF
- C. 3 NF
- D. Normal form

Correct Answer : OPTION D

138. A relation is in if an attribute of a composite key is dependent on an attribute of another composite key.

- A. 2NF
- B. 3NF
- C. BCNF
- D. 1NF

Correct Answer : OPTION B

139. The fifth Normal form is concerned with

- A. Functional dependency
- B. Multivalued dependency
- C. Join dependency
- D. Domain key

Correct Answer : OPTION C

140. A table is in the if only candidate keys are the determinants.

- A. functional dependency

- B. transitive dependency
- C. 4 NF
- D. BCNF

Correct Answer : OPTION D

141. In 2NF

- A. No functional dependencies exist.
- B. No multivalued dependencies exist.
- C. No partial functional dependencies exist
- D. No partial multivalued dependencies exist.

Correct Answer : OPTION C

142. The normal form that is not necessarily dependency preserving is

- A. 2NF
- B. 3NF
- C. BCNF
- D. 4NF

Correct Answer : OPTION A

143. The is related to the concept of multi-valued dependency.

- A. fourth normal form
- B. fifth normal form
- C. boyce codd normal form
- D. third normal form

Correct Answer : OPTION A

144. Which normal form is considered adequate for normal relational database design?

- A. 2NF
- B. 5NF
- C. 4NF
- D. 3NF

Correct Answer : OPTION D

145. Dependency preservation is not guaranteed in

- A. BCNF

- B. 3NF
- C. 4NF
- D. DKNF

Correct Answer : OPTION A

146. A relation is if every field contains only atomic values that are, no lists or sets.

- A) 1 NF
- B) 2 NF
- C) 3 NF
- D) BCNF

Correct Answer : OPTION A

147. Reflexivity property says that $X - Y$ is true if Y is

- A. Subset of X
- B. Null set of X
- C. Super set of Y
- D. Subset of Y

Correct Answer : OPTION A

148. Anything that affects the database schema is a part of

- A. DML
- B. DCL
- C. DDL
- D. All of the mentioned

Correct Answer : OPTION C

149. An instance of a relation is a time varying set of

- A. Tuples
- B. Rows
- C. Both of them
- D. None of them

Correct Answer : OPTION C

150. In the mode any record in the file can be accessed at random

- A. Sequential access
- B. Random access
- C. Standard access
- D. Source access

Correct Answer : OPTION B

151. Which can be used to delete all the rows if a table?

- A. Delete * from table_name
- B. Delete from table_name
- C. Delete table_name
- D. all rows cannot be deleted at a time.

Correct Answer : OPTION A

152. Which if the following is not the type of data integrity.

- A. Key integrity
- B. Domain integrity
- C. Entity integrity
- D. Referential integrity

Correct Answer : OPTION A

153. 4NF stands for ..

- A. Fourth Normal File
- B. Fourth Normal Form
- C. Fourth Normal Fraction
- D. Fourth Negative File

Correct Answer : OPTION B

154. A allows to make copies of the database periodically to help in the cases of crashes & disasters.

- A. Recovery utility
- B. Backup Utility
- C. Monitoring utility
- D. Data loading utility

Correct Answer : OPTION B

155. Allows definitions and query language statements to be entered; query results are formatted and displayed.

- A. Schema Processor
- B. Query Processor
- C. Terminal Interface
- D. None of the above

Correct Answer : OPTION C

156. The main task carried out in the is to remove repeating attributes to separate tables.

- A. First Normal Form
- B. Second Normal Form
- C. Third Normal Form
- D. Fourth Normal Form

Correct Answer : OPTION D

157. The relational model is based on the concept that data is organized and stored in two-dimensional tables called

- A. Fields
- B. Records
- C. Relations
- D. Keys

Correct Answer : OPTION C

158. contains information that defines valid values that are stored in a column or data type.

- A. View
- B. Rule
- C. Index
- D. Default

Correct Answer : OPTION C

159. Which of the syntax is correct for insert statement?

- i. insert into <table_name> values <list of values>
- ii. insert into <table_name> (column list) values <list of values>

- A. i-only
- B. ii-only
- C. Both of them
- D. None of them

Correct Answer : OPTION C

160. first proposed the process of normalization in DBMS.

- A. Edgar. W
- B. Edgar F. Codd
- C. Edward Stephen
- D. Edward Codd

Correct Answer : OPTION B

161. For using a specific database command is used.

- A. use database
- B. database name use
- C. Both A & B
- D. None of them

Correct Answer : OPTION A

162. Which of the following is not comparison operator?

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

Correct Answer : OPTION C

163. An outstanding functionality of SQL is its support for automatic to the target data.

- A. programming
- B. functioning
- C. navigation
- D. notification

Correct Answer : OPTION C

164. is a special type of integrity constraint that relates two relations & maintains consistency across the relations.

- A. Entity Integrity Constraints
- B. Referential Integrity Constraints
- C. Domain Integrity Constraints
- D. Domain Constraints
- E. Key Constraints

Correct Answer : OPTION B

165.specifies a search condition for a group or an aggregate.

- A. GROUP BY Clause
- B. HAVING Clause
- C. FROM Clause
- D. WHERE Clause

Correct Answer : OPTION B

166. Drop Table cannot be used to drop a table referenced by a constraint.

- A. Local Key
- B. Primary Key
- C. Composite Key
- D. Foreign Key

Correct Answer : OPTION D