



# PCEP-30-02 Free Practice Exams | PCEP-30-02 Latest Test Experience


**St. XAVIER'S SENIOR SECONDARY SCHOOL**  
 PRE-BOARD EXAMINATION 2025  
 CLASS : X  
 MATHEMATICS  
 TIME : 03 HOURS  
 MAXIMUM MARKS : 80

**GENERAL INSTRUCTIONS:**  
 Read the following instructions carefully and follow them:

- This Question Paper contains 18 questions divided into 5 sections A, B, C, D & E.
- In Section A, Question NO 1-18 are Multiple Choice Questions (MCQ) and question no 19 and 20 are Assertion-Reason based questions of 1 mark each.
- In Section B, Question NO, 21-23 are Very Short Answer (VSA) type questions, carrying 2 marks each.
- In Section C, Question NO, 24-25 are Short Answer (SA) type questions, carrying 3 marks each.
- In Section D, Question NO, 26-27 are Long Answer (LA) type questions, carrying 5 marks each.
- In Section E, Question NO 28-30 are Case Study Based questions carrying 4 marks each with sub parts.
- All questions are compulsory. However, internal choice is 2 Questions of Section-B, 2 Questions of Section-C, 2 Questions of Section-D has been provided. An internal choice has been provided in all the 2 marks questions of Section E.
- Draw neat figures wherever required. Take  $\pi = \frac{22}{7}$  wherever required if not stated.
- Use of calculators is not allowed.

Q. No.	SECTION-A (MULTIPLE CHOICE QUESTIONS)	[1X20]	MARKS	
01.	The largest number which when divided 70 and 125 leaving remainders 5 and 8 respectively is a. 5      b. 8      c. 21      d. 13		1	
02.	Let a and b be two positive integers such that $a = p^3q^4$ and $b = p^2q^3$ , where p and q are prime numbers. If $HCF(a, b) = p^m q^n$ and $LCM(a, b) = p^r q^s$ , then $(m+n)(r+s)$ is equal to a. 15      b. 30      c. 35      d. 72		1	
03.	If $\alpha$ and $\beta$ are zeroes of the polynomial $ax^2 + bx + c$ then the polynomial having zeroes are $-\alpha$ and $-\beta$ is a. $ax^2 - bx + c$ b. $ax^2 + bx - c$ c. $cx^2 + bx + a$ d. $cx^2 + bx - a$		1	
04.	The pair of equations $y=0$ and $y=7$ has: a. unique solution      b. no solution      c. two solutions      d. infinitely many solutions.		1	
05.	Before 7 yrs father's age was 7 times age of his son. After 3 yrs father's age will be 3 times age of his son. Their present ages are a. 42, 14      b. 43, 13      c. 42, 12      d. 49, 13		1	
06.	The roots of the equation $ax^2 + x + b = 0$ are equal if a. $b^2 = -4a$ b. $b^2 < 4a$ c. $b^2 = 4a$ d. $ab = \frac{1}{4}$		1	
07.	For the quadratic equation $x^2 - 4x + 1 = 0$ , the value of $x + \frac{1}{x}$ is a. 2      b. -2      c. 4      d. -4		1	
08.	Which term of the AP: 113, 108, 103, ..... Is the first negative term? a. 22 <sup>nd</sup> term      b. 24 <sup>th</sup> term      c. 26 <sup>th</sup> term      d. 28 <sup>th</sup> term		1	
09.	If $p - 1, p + 3, p - 1$ forms an AP, then p is equal to a. 4      b. -4      c. 2      d. -2		1	
10.	In $\triangle ABC$ and $\triangle DEF$ , $\frac{AB}{DE} = \frac{BC}{EF}$ . Which of the following makes the two triangles similar? a. $\angle A = \angle D$ b. $\angle B = \angle D$ c. $\angle B = \angle E$ d. $\angle A = \angle F$		1	
11.	The co-ordinates of 4 <sup>th</sup> vertex D of a parallelogram ABCD whose three vertices are A(-2,3), B(6,7) and C(8,3) is a. (0,1)      b. (0,-1)      c. (-1,0)      d. (1,0)		1	
12.	If $x = 2\sin^2\theta$ , $y = 2\cos^2\theta + 1$ then $x + y$ is equal to a. 1      b. 2      c. 3      d. 4		1	
13.	A ladder is leaning against a vertical wall making an angle $60^\circ$ with the wall at a height of 6m from the ground. The length of the ladder is a. $6\sqrt{3}$ m      b. $8\sqrt{3}$ m      c. $4\sqrt{3}$ m      d. 12m		1	
14.	In the given fig AC and AB are tangents to a circle centred at O. If $\angle COD = 120^\circ$ , then $\angle BAO$ is equal to a. $30^\circ$ b. $60^\circ$ c. $45^\circ$ d. $90^\circ$			1

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## Python Institute PCEP - Certified Entry-Level Python Programmer Sample Questions (Q32-Q37):

### NEW QUESTION # 32

What happens when the user runs the following code?

□

- A. The program outputs five asterisks ( \*\*\*\*\* ) to the screen.
- B. The program enters an infinite loop.
- **C. The program outputs one asterisk ( \* ) to the screen.**
- D. The program outputs three asterisks( \*\*\* ) to the screen.

**Answer: C**

### NEW QUESTION # 33

Drag and drop the code boxes in order to build a program which prints Unavailable to the screen.

(Note: one code box will not be used.)

□

**Answer:**

Explanation:

□

### NEW QUESTION # 34

A set of rules which defines the ways in which words can be coupled in sentences is called:

- A. semantics
- B. lexis
- C. dictionary
- **D. syntax**

**Answer: D**

Explanation:

Syntax is the branch of linguistics that studies the structure and rules of sentences in natural languages. Lexis is the vocabulary of a language. Semantics is the study of meaning in language. A dictionary is a collection of words and their definitions, synonyms, pronunciations, etc.

Reference: [Python Institute - Entry-Level Python Programmer Certification]

### NEW QUESTION # 35

What is the expected result of the following code?

□

- A. 0
- B. 1
- C. 2
- **D. The code will cause an unhandled**

**Answer: D**

Explanation:

The code snippet that you have sent is trying to use a list comprehension to create a new list from an existing list. The code is as follows:

```
my_list = [1, 2, 3, 4, 5] new_list = [x for x in my_list if x > 5]
```

The code starts with creating a list called "my\_list" that contains the numbers 1, 2, 3, 4, and 5. Then, it tries to create a new list called "new\_list" by using a list comprehension. A list comprehension is a concise way of creating a new list from an existing list by applying some expression or condition to each element. The syntax of a list comprehension is:

```
new_list = [expression for element in old_list if condition]
```

The expression is the value that will be added to the new list, which can be the same as the element or a modified version of it. The

element is the variable that takes each value from the old list. The condition is an optional filter that determines which elements will be included in the new list. For example, the following list comprehension creates a new list that contains the squares of the even numbers from the old list:

`old_list = [1, 2, 3, 4, 5, 6] new_list = [x ** 2 for x in old_list if x % 2 == 0] new_list = [4, 16, 36]` The code that you have sent is trying to create a new list that contains the elements from the old list that are greater than 5. However, there is a problem with this code. The problem is that none of the elements in the old list are greater than 5, so the condition is always false. This means that the new list will be empty, and the expression will never be evaluated. However, the expression is not valid, because it uses the variable `x` without defining it. This will cause a `NameError` exception, which is an error that occurs when a variable name is not found in the current scope. The code does not handle the exception, and therefore it will terminate with an error message.

The expected result of the code is an unhandled exception, because the code tries to use an undefined variable in an expression that is never executed. Therefore, the correct answer is D. The code will cause an unhandled exception.

Reference: Python - List Comprehension - W3Schools Python - List Comprehension - GeeksforGeeks Python Exceptions: An Introduction - Real Python

### NEW QUESTION # 36

What is true about exceptions and debugging? (Select two answers.)

- A. The default (anonymous) except branch cannot be the last branch in the try-except block.
- **B. One try-except block may contain more than one except branch.**
- C. If some Python code is executed without errors, this proves that there are no errors in it.
- **D. A tool that allows you to precisely trace program execution is called a debugger.**

**Answer: B,D**

Explanation:

Exceptions and debugging are two important concepts in Python programming that are related to handling and preventing errors. Exceptions are errors that occur when the code cannot be executed properly, such as syntax errors, type errors, index errors, etc. Debugging is the process of finding and fixing errors in the code, using various tools and techniques. Some of the facts about exceptions and debugging are:

\* A tool that allows you to precisely trace program execution is called a debugger. A debugger is a program that can run another program step by step, inspect the values of variables, set breakpoints, evaluate expressions, etc. A debugger can help you find the source and cause of an error, and test possible solutions. Python has a built-in debugger module called `pdb`, which can be used from the command line or within the code. There are also other third-party debuggers available for Python, such as PyCharm, Visual Studio Code, etc<sup>12</sup>

\* If some Python code is executed without errors, this does not prove that there are no errors in it. It only means that the code did not encounter any exceptions that would stop the execution. However, the code may still have logical errors, which are errors that cause the code to produce incorrect or unexpected results. For example, if you write a function that is supposed to calculate the area of a circle, but you use the wrong formula, the code may run without errors, but it will give you the wrong answer. Logical errors are harder to detect and debug than syntax or runtime errors, because they do not generate any error messages. You have to test the code with different inputs and outputs, and compare them with the expected results<sup>34</sup>

\* One try-except block may contain more than one except branch. A try-except block is a way of handling exceptions in Python, by using the keywords `try` and `except`. The `try` block contains the code that may raise an exception, and the `except` block contains the code that will execute if an exception occurs. You can have multiple `except` blocks for different types of exceptions, or for different actions to take. For example, you can write a try-except block like this:

```
try: # some code that may raise an exception
except ValueError: # handle the ValueError exception
except ZeroDivisionError: # handle the ZeroDivisionError exception
except: # handle any other exception
This way, you can customize the error handling for different situations, and provide more informative messages or alternative solutions5
```

\* The default (anonymous) `except` branch can be the last branch in the try-except block. The default `except` branch is the one that does not specify any exception type, and it will catch any exception that is not handled by the previous `except` branches. The default `except` branch can be the last branch in the try- `except` block, but it cannot be the first or the only branch. For example, you can write a try-except block like this:

```
try: # some code that may raise an exception
except ValueError: # handle the ValueError exception
except: # handle any other exception
This is a valid try-except block, and the default except branch will be the last branch. However, you cannot write a try-  
except block like this:
```

```
try: # some code that may raise an exception
except: # handle any exception
This is an invalid try-except block, because the default except branch is the only branch, and it will catch all exceptions, even those that are not errors, such as KeyboardInterrupt or SystemExit. This is considered a bad practice, because it may hide or ignore important exceptions that should be handled differently or propagated further. Therefore, you should always specify the exception types that you want to handle, and use the default except branch only as a last resort5 Therefore, the correct answers are A. A tool that allows you to precisely trace program execution is called a debugger. and C. One try-except block may contain more than one except branch.
```

Reference: Python Debugger - Python pdb - GeeksforGeeks  
How can I see the details of an exception in Python's debugger? Python Debugging (fixing problems)  
Python - start interactive debugger when exception would be otherwise thrown  
Python Try Except [Error Handling and Debugging - Programming with Python for Engineers]

## NEW QUESTION # 37

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