KAMANI SCIENCE & PRATAPRAI ARTS COLLEGE, AMRELI
(BCA DEPARTMENT)
Programming in Python : CS-30 BCA SEM – 5
(One Line Questions)

UNIT - 1

(1) Who is the developer of Python?

ANS: Guido Van Rossum

(2) Which special character used for new line?

ANS: \n

(3) Python commands are executed in _____.

ANS: IDLE / Python Shell

(4) The ____ symbol is to set single line comment in python.

ANS: #

(5) What is the output of 30//20 and 30/20?

ANS: 1 and 1.5

(6) What is the output of type(3)?

ANS:<class 'int'>

(7) How to write x raised to power y in python?

ANS:print(x**y) or pow(x,y)

(8) The ____ symbol is a shell prompt in Python.

ANS: >>>

(9) The ____ symbol is to set multiline comments (docstring) in Python.

ANS: """ """ or ''' '''

(10) IDLE stands for _____.

ANS: Integrated Development and Learning Environment

(11) ____ is a special character, which is used to represent whitespace characters.

ANS: "\"

(12) ____ method writes any string to an open file in Python.

ANS: write() or writelines()

(13) ____ method reads string from an open file in Python.

ANS: read() or readline()

(14) How many keywords are there in Python 3.7 ?

ANS: 33 keywords

(15) What is List?

ANS:A list is a data structure in Python that is a mutable, or changeable, ordered sequence of elements.

(16) What is tuple?

ANS: A tuple is a collection which is ordered and unchangeable.

(17) What is set?

ANS: It is a collection that is written with curly brackets and is both unindexed and unordered.

(18) What is Dictionary?
ANS: A Python dictionary is a data structure that allows us to easily write very efficient code. A Python dictionary is a collection of key:value pairs.

UNIT - 2

(1) The python ____ statement forces a specified exception to occur.
ANS: raise statement

(2) ELSE keyword is used in exception Handling in python (True/False).
ANS: True

(3) _____ exception catch all exception.
ANS: BaseException

(4) Partition and exchange sort is _____.
ANS: Quicksort

(5) _____ keyword tell the python that function is generator.
ANS: The **yield keyword** in Python controls the flow of a generator function. This is similar to a return statement used for returning values in Python.

(6) What is time complexity of the merge sort & binary search?
ANS: time complexity of Merge Sort is θ(nlogn)
        time complexity of the binary search algorithm is O(log n)

(7) ADT stands for _____.
ANS: Abstract Data type.

(8) _____ error is raised when division or module by zero.
ANS: ZeroDivisionError

(9) In python, exception can be handled using a _____ statement.
ANS: try clause

(10) _____ error is raised when calculation exceeds maximum limit for a numeric type.
ANS: OverflowError

(11) _____error is raised when an import statement fails.
ANS: ImportError

(12) When a child class inherits from only One parent class it is called?
ANS: single inheritance

(13) partition and exchange sort is _____.
ANS: **Quicksort**

(14) _____ is time complexity of merge sort.
ANS: θ(nlogn)

UNIT - 3

(1) Knapsack problem is also known as _____.
ANS: optimization problem or fractional knapsack problem.
(2) ____ method display the graphical window on the
computer screen.
ANS: pylab.show()
(3) When stores PyLab Figure, Default extension_____.
ANS: .png
(4) Which function is used to save plot graph to file?
ANS: savefig()
(5) png stands for _____.
ANS: Portable Network Graphics
(6) Dynamic programming was invented by _____ in _____ year.
ANS: Richard Bellman in the 1950
(7) Plotting programming we should install _____ package.
ANS: Matplotlib
(8) pylab provides many of the facilities of _____
ANS: Matlab
(9) _____ method displays the graphical window on the computer
screen.
ANS: **pylab.show()**
(10) _____ is a python module that provides tools for scientific
computing.
ANS: NumPy
(11) PyLab is embedded with ____ module of python.
ANS: Matplotlib Module
(12) ____ function is used to display chart/figure.
ANS: show()
(13) Dynamic Programming is mainly an optimization over plain
_____.
ANS: plain recursion
(14) MATLAB stands for.
ANS: MATrix LABoratory
(15) Which function is used to show legends?
ANS: legend()
(16) Which function is used to create a histogram?
ANS: hist()
(17) Which function is used to create subplot?

ANS: subplots()
(18) Which Python package is used for 2D graphics?
ANS: matplotlib.pyplot

UNIT - 4

(1) URL stand for _____.
ANS: Uniform Resource Locator
(2) UDP stand for _____.
ANS: User Datagram Protocol
(3) TCL stand for _____.
ANS: Transaction Control Language
(4) TCP/IP stand for _____.
ANS: Transmission Control Protocol/Internet Protocol
(5) What is GUI?
ANS: Graphical user interface
(6) Define mainloop().
ANS: mainloop() is simply a method in the main window that executes what we wish to execute in an application. As the name implies it will loop forever until the user exits the window or waits for any events from the user.
(7) What is TCL?
ANS: TCL is a dynamic interpreted programming language, just like Python. Though it can be used on its own as a general-purpose programming language, it is most commonly embedded into C applications as a scripting engine or an interface to the Tk toolkit.
(8) What is IP Address?
ANS: An Internet Protocol (IP) address is the unique identifying number assigned to every device connected to the internet
(9) What is an entry field?
ANS: The Entry widget is used to provide the single line text-box to the user to accept a value from the user. We can use the Entry widget to accept the text strings from the user. It can only be used for one line of text from the user.
(10) What is a dialog?
ANS: Dialog windows are very similar to standard windows, and are used to provide or retrieve information from the user.
(11) IPV4 IP Address range of Class A _____
ANS: 0.0.0.0 to 127.255.255.255
(12) Define URL.
ANS: URL stands for Uniform Resource Locator. A URL is nothing more than the address of a given unique resource on the Web.
(13) Define socket.gethostbyname()

ANS: Python socket module gethostbyname() function accepts hostname argument and returns the IP address in the string format.

(14) GAI Stand for _____

ANS: GAI stands for get address information

(15) Define urlparse()

ANS: The urlparse module contains functions to process URLs, and to convert between URLs and platform-specific filenames.

(16) Define urlopen()

ANS: This function allows you to open and read the contents of a URL.

(17) Define urlretrive()

ANS: urlretrieve() function is used to retrieve the image from the given url and store it to the required file directory.

UNIT- 5

(1) SQL stand for _____.

ANS: Structured query language.

(2) Which package used to connect Mysql database in python code ?

ANS: **MySQLdb module or mysql.connector**

(3) List out connect() function parameters.

ANS: user, password, database, host, port etc

(4) Which method of cursor class is used to fetch only one row from the table?

ANS: fetchone() Method

(5) _____ method executes a database query from within Python.

ANS: execute() Method

(6) By Default the order by clause sorts the result set in the _____

ANS: ascending order

(7) Which package import before writing database connectivity python code?

ANS: **MySQLdb module or mysql.connector**

(8) Write a syntax of insert record in table.

ANS: INSERT INTO TableName (Column1, Column2, Column3, ...) VALUES (ColumnValue1, ColumnValue2, ColumnValue3, ...);

(9) Write a syntax of delete record in table.

ANS: DELETE FROM table_name WHERE condition;

(10) Write a syntax of update record in table.

ANS: UPDATE table_name SET column1 = value1, column2,value2,...

(11) What is Table?

ANS: A table is a collection of related data held in a table format within a database. It consists of columns and rows. In relational databases, and flat file.

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(12) List out basic library required for data analytics in python.

ANS: Plotly, NumPy, SciPy, Visby, Pandas, Matplotlib, Seaborn, Scikit-learn, Statsmodels, and Apache Superset (Write any 3)

(13) Define fetchone() and fetchall() method.

ANS: fetchone() This method retrieves the next row of a query result set and returns a single sequence.

fetchall() The method fetches all (or all remaining) rows of a query result set and returns a list of tuples.

(14) Define execute() method.

ANS: This method executes the given database operation (query or command).

(15) Define commit() method.

ANS: This method sends a COMMIT statement to the MySQL server, committing the current transaction.

(16) Define rollback() method.

ANS: This method sends a ROLLBACK statement to the MySQL server, undoing all data changes from the current transaction.