

CT 2 QUESTION PAPER
15IT322E-PYTHON PROGRAMMING
SRM UNIVERSITY, KATTANKULATHUR
SCHOOL OF COMPUTING

SEM/YEAR: 5/3
MARKS: 100
RegNo:

DATE: 25-10-17
DURATION: 3 hrs

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PART A (answer all)

(20*1=20)

1) Which one is the library that supports threads in Python?

- A. `_threading` B. `thread` C. `threading` D. None

2) Which thread method is used to wait until it terminates?

- A. `join()` B. `waitforthread()` C. None D. `wait()`

3) Output of the following code

```
import os
print (os.path.expanduser('~'))
```

- A. Current directory B. Current subdirectory
C. Home directory D. media directory

4) The sqlite method used to execute the query against the cursor object.

- A. `ExceuteQuery` B. `ExecuteUpdate` C. `Exceute` D. `ExecuteAll`

5) Which of these will exit a Python program without printing a stack trace?

- A) `raise BaseException()`
B) `raise SystemExit()`
C) `Os.terminate()`
D) `OS.clear()`

6. Which information about a client is NOT usually available to a server via the http protocol?

- A) The IP address of a user.
B) The URL of the referring webpage.
C) For password protected pages: the username and password.
D) The URL of a user's homepage

7). Which of the following activities poses a potential security risk for a web server because it requires entering user input into a system command.

- A) Sending a "SELECT * FROM CUSTOMERS" command to a server-side database.
B) Setting cookies on a user's computer.
C) Asking a user to enter credit card information into a form.
D) Sending email from a CGI script back to a user.

8). Which of the following statements about web crawlers is NOT true?

- A) A web crawler navigates through the web by finding the links on one page, and the links of linked pages and so on.
B) CGI technology can be used to write web crawler software allowing a user to query the web crawler while it is navigating through the web.
C) A web crawler parses remote web pages in order to find linked pages.
D) Web crawlers are used to build the databases of search engines.

- 9). What would be _____ parameters socket would require?
 A) backlog B) port C) session D) subnet mask
- 10) Which of the following are types of socket?
 A) datagram packet B) sequenced packet socket
 C) random packet D) packet

- 11). What is the type of sys.argv?
 A) set B) list C) tuple D) string

- 12). Which of these will exit a Python program without printing a stack trace?
 A) raise BaseException() B) raise SystemExit()
 C) Os.terminate() D) OS.clear()

13. To create a label under parent window, use _____
 A) label = Label(text = "Welcome to Python")
 B) label = Label(window, text = "Welcome to Python")
 C) label = Label(text = "Welcome to Python", fg = " red")
 D) label = Label(text = "Welcome to Python", fg = " red", bg = "white")

Answer: canvas.create_text(30, 40, text = "Good morning", fill = "red")

- 14) Assume v1 = IntVar(), how do you set a new value 5 to v1 in tkinter
 A)v1=5 B)v1.setValuc(5)
 C)v1.set(5) D)v1.get(5)

15. Choose the best option to display message box in tkinter?
 A)tkMessageBox.function(title, message,OKCANCEL).
 B) tkMessageBox.function(message,OKCANCEL).
 C)tkMessageBox.function(message,title,OKCANCEL).
 D) tkMessageBox.function(title,OKCANCEL).

16. To add a menubar, use _____
 A>window.configure(menu = menubar) B) window.config(menubar)
 C) window.config(menu = menubar) D) window.configure(menubar)

- 17). The event _____ is fired when the mouse is moved while the middle mouse is being held down.
 A0 <B1-Motion> B) <B2-Motion> C) <B3-Motion> D) <Button-1>

- 18). Assume v1 = IntVar(), how do you create a radio button under parent frame1 with variable bound to v1 and value 1?

- A) Checkbutton(frame1, text = "Bold", command = processCheckbutton)
 B) Checkbutton(frame1, text = "Bold", variable = v1.get())
 C) Checkbutton(frame1, text = "Bold", variable = v1, command = processCheckbutton)
 D) Radiobutton(frame1, text = "Yellow", bg = "yellow", variable = v1, value = 1, command = processRadiobutton)

- 19) In SQLite, which command(s) is(are) used to change a table's storage characteristics?

- A)ALTER TABLE
 B)MODIFY TABLE
 C)CHANGE TABLE
 D) All of the above

- 20)which is not the SQLite storage classe?
 A)Null B)Integer C)Floatingpoint D)BLOB

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1. Which of the following functions is not defined under the sys module?

- a) sys.platform b) sys.path c) sys.readline d) sys.argv

2. What is the output of the code shown below, if the code is run on Windows operating system?

```
import sys
if sys.platform[:2] == 'wi':
    print("Hello")
```

- a) Error b) Hello c) No output d) Junk value

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

```
import sys
sys.argv[0]
```

- a) Junk value b) '' c) No output d) Error

4. To obtain a list of all the functions defined under sys module, which of the following functions can be used?

- a) print(sys) b) print(dir.sys) c) print(dir[sys]) d) print(dir(sys))

5. what does os.close(f) do?

- a) terminate the process f b) terminate the process f if f is not responding
c) close the file descriptor f
d) return an integer telling how close the file pointer is to the end of the file

6. which of the following can be used to create a directory

- a) os.mkdir() b) os.creat_dir() c) os.create_dir() d) os.mkdir()

7. self.queue.put(item) refers to _____

- a) put an item in the queue to be processed b) delete an item from the queue
c) viewing the queue d) none of the above

8) The bind function is used to bind the socket to address in the

- a) Client side b) Server side c) Client and Server side d) website

9) Which of the following denotes that UDP protocol is to be used
a) SOCK_DGRAM b) SOCKSTREAM c) DNS d) SOCK_DGRAM

10) Which function is used to send and receive data in TCP.
a) Sendto() & recvfrom() b) sendall & recv() c) send & recvfrom() d) get() & put()

11) Which will return the URL of the resource retrieved
a) geturl() b) retrieve c) get() d) retrieveurl()

12) Which python module is used in url access
a) url b) urllib c) urlretrieve d) urlaccess

13) Which environmental variable stores the path of CGI Script
a) Content_length b) content_type c) PATH_INFO d) PATH

15) The number of clients that could be queued before rejection is denoted by
a) socket() b) accept() c) listen() d) bind()

16) How do you create a GUI component for displaying multiple-lines of text?
a) Use Label b) Use Button
c) Use Text d) Use Message

17) How do you create a text area?
a) Use Label b) Use Button
c) Use Text d) Use Message

18) Using a grid manager, you can use the option _____ to place a component in multiple rows and columns.
a) row b) column c) rowspan & colspan d) Rowvalue & column value

19) SQLite does not support stored procedures
a) True b) False

20) SQLite isdatabase.
a) file based
b) Server Based
c) Dataquery based
d) query based

SET C

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PART B

(5*4=20)

21. Get a directory from the user, walk through the directory. Display all the files and folders in the directory and subdirectories.
22. Differentiate 'exit()' in both os and sys module with an example
23. What is the use of 'cgitb' module, give an example
24. Create a python program to retrieve a page from server using 'urlretrieve'
25. When a 'tkinter' window is minimized which widget shrinks first. Explain with an example.
26. Write a python code snippet to bind your keyboard 'enter' press with an event handler.
27. Let the cursor object be 'cur' and table name is 'emp'. Write a python code to calculate sum of all values in 'salary' column

PART B

(5*12=60)

28.a. Explain the following and give its result:

- i) sys. maxsize
- ii) sys. exc_info()
- iii) getpid in os module
- iv) sep in os module
- v) pardir in os module
- vi) glob

Use python code snippet wherever necessary

28b. Create a class 'fileoperation' which has two operations 'fil_read()' and 'file_write()'. Get the file name from user and make the file object as global. Using threads and locks synchronize file read and write operation.

29a. Using python, Create a TCP server which handles 5 clients. Your server should reverse the string sent by the client and sends it back. Demonstrate both client and server side.

OR

29b. Using python write an UDP server which sends back the square of the number that is sent by the client. Write both client and server side code.

30a. Write a python CGI script which gets a name from user and displays the corresponding grade for the given name. Your CGI maintains a dictionary of names and grades. Write appropriate html page to get the input from the user.

OR

30b. Write a python CGI script which gets 6 names(separated by comma) from user and displays all the names in a 2X3 table after changing it to upper case.

Input: abc, john, maria, joe, divya, shanthi

Output:

ABC	JOHN	MARIA
JOE	DIVYA	SHANTHI

31a. Using tkinter, display the available products (use listbox) in your grocery shop (at least 10). Whenever the user selects an item it should be added to the cart. When the user presses submit button display the total cost in a label. Note: link scrollbar to the list box for easy access.

OR

31b. Using tkinter, create a calculator application for addition, subtraction, division, multiplication. Use two text boxes to get the input from the user and different buttons for operations. Display the result in a label.

32a. Using sqlite3, Create a course database with the following fields
Student (reg_no, stud_name, course_id foreign key)

Course (Course_id primary key, course_name, instructor_name)

- 1) Display the students name who opted 'PYTHON' subject
- 2) Retrieve the Instructors name who is teaching 'DBMS' subject
- 3) Display the course details with course name and instructor name

OR

32b. Using sqlite3, Create a database with the following fields academic_detail (Reg_no primary key, attendance_percentage, grade, CI_Name). Insert sample record and do the following

1. Display all the Register numbers whose attendance percentage is less than 75.
2. Display the register number whose attendance percentage is the highest among all.
3. Update the CI_name from 'George' to 'John'