

NETWORK PROGRAMMING

Question Bank

Helping Others Have Special taste

Questions

1- are the endpoints of a bidirectional, point-to-point communication channel.

A-Sockets

B-Pc

C-Hub

D-Router

2-What provides two-way communication between two different programs in a network?

A-Socket

B-Port

C-HTTP

D-Protocol

3-To Create a Socket, we must use.....

a-Socket

b-socket_socket()

c-socket.socket()

d-socket.start()

4-Socket acts on two parts..... And

A. IP address and port number

B. Port number and server

C. Client and server

D. IP address and subnet mask

5- Create Socket include operators.

A. 3

B. 2

C. 4

D. 1

**6- General Syntax in function Socket is
socket.socket(____,____,____).**

A. (Socket_family , socket_type ,protocol=0)

B. (socket_type , socket_family,https)

- C. (socket_close() , socket_type,port number)
- D. (address , IP , Port number)

7-What's the most common type of socket application?

- A. Client-server applications
- B. Server-server applications
- C. Unix domain socket applications
- D. All

8-What does Python's socket module provide an interface to?

- A. The Berkeley sockets API
- B. The HTTP protocol
- C. The SMTP protocol
- D. No answer

9-Which methods are commonly used in the Server Socket class.

- A. Output Stream get Output Stream ()
- B. synchronized void close ()
- C. Socket accept()

10- Themethod associates the socket with a specific network interface and port number.

- A. Socket()
- B. bind()
- C. listen()
- D. sendto()

11- Themethod enables the server to accept connections, making it a listening socket.

- A. Socket()
- B. bind()
- C. listen()

D. sendto()

12- TCP, FTP, Telnet, SMTP, POP etc. are examples of.

- A. Socket
- B. IP Address
- C. Protocol**
- D. MAC Address

13- What does the java.net.InetAddress class represent.

- A. Socket
- B. IP Address**
- C. Protocol
- D. MAC Address

14- HTTP works on port.

- A. 23
- B. 22
- C. 100
- D. 80**

15- Which classes are used for connection-less socket programming?

- A. Datagram Socket
- B. Datagram Packet
- C. Both the Datagram Socket & Datagram Packet**
- D. Server Socket

16- The operators of sockets are.....

- A. socket_family
- B. socket_type
- C. Protocol
- D. All the above**

17-used at least 99% of the sockets in use as socket family.

- A. AF_UNIX

B. AF_INET

C. both a and b

18-..... This is either AF_UNIX or AF_INET.

A. socket_family

B. socket_type

C. Protocol

D. All the above

19-.... This is either SOCK_STREAM(for TCP) or SOCK_DGRAM(for UDP).

A. socket_family

B. socket_type

C. Protocol

D. All the above

20-This is usually left out, defaulting to 0.

A. socket_family

B. socket_type

C. Protocol

D. All the above

21-TCP and UDP in.....layer.

A. Application

B. Session

C. Transport

D. Network

22- UDP is called atransport protocol.

A. connectionless, reliable.

B. connection-oriented, unreliable.

C. connectionless, unreliable.

D. None of the choices are correct.

23- UDP is an acronym for

- A. User Delivery Protocol.
- B. User Datagram Procedure.
- C. User Datagram Protocol.
- D. None of the choices are correct.

24- TCP is an acronym for

- A. Transmission Control Protocol.
- B. Transactions Connect Protocol.
- C. Transport Connection Protocol.

25- TCP is called atransport protocol.

- A. connectionless, reliable.
- B. connection-oriented, reliable.
- C. connectionless, unreliable.
- D. None of the choices are correct.

26-SOCK_STREAM forProtocol

- A. TCP
- B. UDP
- C. TCP and UDP
- D. DTP

27- SOCK_DGRAM forProtocol

- A. TCP
- B. UDP
- C. TCP and UDP
- D. DTP

28- SOCK_STREAM(for) or SOCK_DGRAM(for)

- A. TCP , TCP
- B. UDP , UDP
- C. TCP , UDP**
- D. UDP , TCP

29- Telnet work on port .

- A. 23**
- B. 80
- C. 53

30-..... returns a string containing the hostname of the machine where the python interpreter is currently executing.

- A. gethostname():**
- B. gethostbyname(hostname):
- C. getservbyname(name):
- D. getservbypor(portno):

31-.....returns the IP address of the host.

- A. gethostname():
- B. gethostbyname(hostname):**
- C. getservbyname(name):
- D. getservbypor(portno):

32-returns the port number on which the service is defined.

- A. gethostname():
- B. gethostbyname(hostname):
- C. getservbyname(name):**
- D. getservbypor(port):

33-returns the name of the service for a given port number.

- A. gethostname():
- B. gethostbyname(hostname):
- C. getservbyname(name):
- D. **getservbypor(port):**

34-..... To get private ip.

- A. **socket.gethostbyname(hostname)**
- B. import socket
- C. socket.gethostname(hostname)
- D. none

34- Choose the correct answer.

```
import socket  
  
ip=socket.gethostbyname('localhost')  
print(ip)
```

- A. **127.0.0.1**
- B. 172.0.0.1
- C. 128.0.0.7
- D. 127.0.0.0

35- Choose the correct answer.

```
import socket  
  
port=socket.getservbyname('https')  
print(port)
```

- A. 434
- B. **443**
- C. **80**
- D. 53

36-choose the correct answer.

```
import socket  
  
port=socket.getservbyname('domain')  
print(port)
```

- A. 434
- B. **443**
- C. 80
- D. **53**

37-choose the correct answer.


```
import socket  
  
service=socket.getservbyport(23)  
print(service)
```

A.SSH

B.Telnet

C.SMTP

D.DNS

38-choose the correct answer.

```
import socket  
  
service=socket.getservbyport(22)  
print(service)
```

A.FTP

B.SSH

C.Telnet

D.SMTP

39-choose the correct answer.

```
import socket  
  
host=socket.getservbyname('127.0.0.1')  
print(host)
```

A.Localhost

B.Domain

C.Error

D.Host

40-This method actively initiates a TCP server connection.

- A. bind()
- B. listen()
- C. accept()
- D. connect()

41-This method receives TCP message.

- A. recv()
- B. send()
- C. recvfrom()
- D. sendto()

42-This method transmits a TCP message.

- A. `recv()`
- B. `send()`
- C. `recvfrom()`
- D. `sendto()`

43- This method receives UDP message ,Packet size as argument

Return (data, add).

- A. `recv()`
- B. `send()`
- C. `recvfrom()`
- D. `sendto()`

44-This method transmits a UDP message.

- A. `recv()`
- B. `send()`
- C. `recvfrom()`
- D. `sendto()`

45- Socket acts on

- A. IP Address
- B. Port Number
- C. Both a and b
- D. None of above

46-This method closes socket.

- A. `recv()`
- B. `send()`
- C. `recvfrom()`
- D. `close()`

47-no data is sent until the server and client perform initial connection(handshake).

- A. UDP
- B. TCP
- C. Both a and b
- D. Otherwise

48-Used for real-time services like computer gaming, voice or video communication, live conferences.

- A. DTP
- B. UDP
- C. TCP
- D. NTP

49-The bind() method is used asocket.

- A. Server
- B. Client
- C. Url
- D. All

50-.....method Python's socket class, reads a number of bytes sent from an UDP socket.

- A. recv()
- B. send()
- C. recvfrom()
- D. close()

51-The number of bytes to be read from the UDP socket.

- A. bufsize
- B. flags
- C. block

D. all

52- This is an optional parameter. As supported by the operating system. Multiple values combined together using bitwise OR.

- A. bufsize
- B. flags
- C. block
- D. all

53-is the Central Computer powerful than other computers in the network.

- A. Server
- B. Hub
- C. Client
- D. Switch

54-TCP groups a number of bytes together.....in a packets.

- A. user datagram
- B. datagram
- C. segment
- D. packet

55-one of the following classes are used for connection-less socket programming?

- A. Datagram Socket
- B. Datagram Packet
- C. Both Datagram Socket
- D. Datagram Packet

56-is the Machine that places the request to access the data.

- A. Client Machine
- B. Server Machine

- C. Request Machine
- D. None of these

57- _____ is the default port of SMTP.

- A. 25
- B. 70
- C. 80
- D. 85

58-HTTP client requests by establishing aconnection to a particular port on the server.

- A. User datagram protocol.
- B. Transmission control protocol.
- C. Border gateway protocol .
- D. Domain host control protocol.

59-FTP server listens for a connection on which port number?

- A. 20
- B. 21
- C. 22
- D. 23

60-In FTP protocol, a client contacts a server usingas the transport protocol.

- A. Transmission control protocol
- B. User datagram protocol
- C. Datagram congestion control protocol
- D. Stream control transmission protocol

61-Which constructor of Datagram Socket class is used to create a datagram socket and binds it with the given Port Number?

- A. Datagram Socket(int port)
- B. Datagram Socket(int port, Int Address address)

- C. Datagram Socket()
- D. Datagram Socket(int address)

62-The client in socket programming must know which information?

- A. IP address of Server
- B. Port number
- C. Both IP address of Server & Port number
- D. Only its own IP address

63-The URL Connection class can be used to read and write data to the specified resource that is referred by the URL.

- A. True
- B. False

64-Datagram is basically just a piece of information but there is no guarantee of its content, arrival or arrival time.

- A. True
- B. False

65-.....connection present the data to application as a continuous stream of bytes.

- A. TCP
- B. UDP
- C. DTP
- D. CTP

66-A port address in TCP/IP is bits long.

- A. 32
- B. 48
- C. 16
- D. 8

67-In which of the following terms the sending and receiving data is done in TCP?

- A. Stream of bytes
- B. Sequence of characters
- C. Lines of data
- D. Packets

68-Which method is used to close the WebSocket?

- A. socket.flush()
- B. socket.close()
- C. Socket.Close()
- D. Socket.dispose()

69-is what happens when bytes are on their way into your application and you need to figure out what they mean.

- A. Cipher
- B. Decoding
- C. Encoding
- D. All

70-is the process of taking character strings that you are ready to present to the outside world and turning them into bytes.

- A. Cipher
- B. Decoding
- C. Encoding
- D. All

71-How will you transmit data using the connection ?

- A. send(data)
- B. socket.send("data")
- C. socket.send(data)

D. Socket(data)

72-this method continues to send data from bytes until either all data has been sent or an error occurs.

- A. recv()
- B. send()
- C. **sendall()**
- D. sendto()

73- option to allow reuse the port and IP for server

- A. **setsockopt()**
- B. broadcast
- C. **SO_REUSEADDR**
- D. Otherwise

74- If how is.....further receives are disallowed

- A. **SHUT_RD**
- B. SHUT_WR
- C. SHUT_RDWR
- D. Otherwise

75- If how is.....further sends are disallowed

- A. SHUT_RD
- B. **SHUT_WR**
- C. SHUT_RDWR
- D. Otherwise

76-If how isfurther sends and receives will be disallowed.

- A. SHUT_RD
- B. SHUT_WR
- C. **SHUT_RDWR**

D. Otherwise

77-Returns the remote address to which this socket is connected.

- A. `getsockname()`
- B. `getpeername()`
- C. `socket.gethostbyname(hostname)`
- D. `socket.gethostname(hostname)`

78- Which of the following does UDP provide?

- A. flow control
- B. connection-oriented delivery
- C. error control
- D. None of the choices are correct

79- To use the services of UDP, we need _____ socket addresses.

- A. four
- B. two
- C. three
- D. None of the choices are correct

80-.....involves writing programs that communicate with other programs across a computer network.

- a- `Network programming`
 - b- Network
 - c- Network program
 - d- Network programmer
-

81-.....is a standard pattern of exchanging information.

- a-socket
- b-protocol
- c-Network
- d-Otherwise

82-What protocols is used in application layer?

- a-HTTP
- b-FTP
- c-Telnet
- d-All the above

83-Which is used to determine how the data is to be transported from one machine to another?

- a-TCP
- b-UDP
- c-TCP and UDP
- d-Otherwise

84-.....a protocol that sends independent packets of data, called datagrams, from one computer to another.

- a-TCP
- b-UDP
- c-TCP and UDP
- d-Otherwise

85-..... is not connection based but.....is connection-based.

- a-TCP,UDP
- b-UDP,TCP
- c-otherwise

86-..... Sending packets is like sending a letter through the postal service.

- a-TCP
- b-UDP
- c-TCP and UDP
- d-Otherwise

87-..... similar to a phone call.

- a-TCP
- b-UDP
- c-TCP and UDP
- d-Otherwise

88-..... provides a point-to-point channel for applications that require reliable communications.

- a-TCP
- b-UDP
- c-TCP and UDP
- d-Otherwise

89-..... is either AF_UNIX or AF_INET. We are only going to talk about INET sockets in this tutorial, as they account for at least 99% of the sockets in use.

- a-socket_type
- b-socket_family
- c-protocol
- d-otherwise

90-..... binds address (hostname, port number pair) to socket.

- a) s.connect()
- b) s.bind()

- c) s.accept()
 - d) s.listen()
- 91-..... sets up and start TCP listener.**
- a) s.connect()
 - b) s.bind()
 - c) s.accept()
 - d) s.**listen()**
- 92-..... accept TCP client connection, waiting until connection arrives (blocking).**
- a)s.connect()
 - b)s.bind()
 - c)s.**accept()**
 - d)s.listen()
- 93-..... receives UDP message, packet size as argument Return data, add.**
- a)s.send()
 - b)s.**recvfrom()**
 - c)s.recv()
 - d)s.close()
- 94-.....is not required to bind the socket explicitly to a port.**
- a-**client** programs
 - b-server programs
 - c-both a and b
 - d-otherwise
- 95-..... method to turn on broadcast.**
- a)setsock()
 - b)**setsockopt()**
 - c)setopt()

d) `setsockopt()`

96-..... Packets dropped in the network are detected and retransmitted by the sender.

- a-In TCP
- b-In UDP
- c-a and b
- d-Otherwise

97-..... Data is read by your application in the order it was written by the sender.

- a-In TCP
- b-In UDP
- c-a and b
- d-Otherwise

Answers

Question	Answer
1	A
2	A
3	C
4	A
5	A
6	A
7	A
8	A
9	C
10	B
11	C
12	C
13	B
14	D
15	C
16	D
17	B
18	A
19	B
20	C
21	C
22	C

23	C
24	A
25	B
26	A
27	B
28	C
29	A
30	A
31	B
32	C
33	D
34	A
34	A
35	B
36	D
37	B
38	B
39	C
40	D
41	A
42	B
43	C
44	D
45	C
46	D
47	B
48	B
49	A

50	C
51	A
52	B
53	A
54	C
55	A
56	A
57	A
58	B
59	B
60	A
61	B
62	C
63	A
64	A
65	A
66	C
67	A
68	B
69	B
70	C
71	C
72	C
73	C
74	A
75	B
76	C
77	B

78	D
79	B
80	A
81	B
82	D
83	C
84	B
85	B
86	B
87	A
88	A
89	B
90	B
91	D
92	C
93	B
94	A
95	D
96	A
97	A

Link quations

- 1- <https://examradar.com/computer-networking-transport-layer-mcqs/>
- 2- <https://www.studocu.com/row/document/united-international-university/computer-networks/250-top-mcqs-on-socket-programming-and-answers/37910325>
- 3- <https://engineeringinterviewquestions.com/mcqs-on-socket-programming-answers/>
- 4- <https://www.examveda.com/javascript/practice-mcq-question-on-sockets/>
- 5- <https://t4tutorials.com/networking-programming-solved-mcqs-with-answer/>

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