

Faculty of Computers

a. AAAA

a.

b. A

13- What function used to get port number for http service?

c. MX

getservbyport('http') b. getservbyname('http') c. getprotobyname('http') d. Otherwise

And Artificial Intelligence

Network Programming

Third level

Date: 23/6/2022

Time: 2 hours

NC321 Q1. Computer Networks Multiple Choice Questions (MCQs) (60 DEGREE) 1- One of the following classes are used for connection based socket programming? a. Datagram Socket b. Datagram Packet c. Both a, b d Otherwise 2- The recyfrom method used in a. Server socket b. Client socket c. Both a, b d. Otherwise 3- ----is the port number for domain service b. 53 c. 21 d. 25 4- ---- sockets, negotiates a new stream with another machine using a three-way handshake a. UDP b. TCP c. both a, b d. Otherwise 5------Flag is used to set broad cast option in UDP. a. SO BROADCAST b. SOL BROADCAST c. BROADCAST d. SOCKET BROADCAST 6- Which method of the socket module allows you to send data to a given address in client STREAM socket using sok socket object? a. sok.sendto(address, data) b. sok.send (address, data) c. sok.send (data) d. Otherwise 7- The result of the following python program is def thrd1(i): print(i) i = i + 1i = 10t1 = threading. Thread(target= thrd1, args=(i)) print(i) tl.start() d Otherwise c. Exception b. 10 a. 10 8- ---- method used only in Server Socket d. Otherwise a. accept() b. connect() c. bind() 9- What method that return the address of this socket's own local endpoint? a. mysocket.gethostname() b. mysocket.gethostbyname() d. mysocket.getsockname() c. mysocket.getpeername() 10- to disallowed receiving data in sok socket object we use ----a. sok.SHUT RD() b. sok.shutdown(socket.SHUT RD) c. sok.shutdown(socket.SHUT WR) d. shutdown(sok.SHUT WR) 11- What method used to return the remote address to which sok socket object is connected? a. sok.gethostbyaddr() b. sok.gethostbyname() c. sok.getpeername() d. sok.gethostname() 12- ----- DNS record type that specifies a mail server responsible for accepting email messages

14- To convert hostname to IP address we use
a. socket.gethostbyaddr(address) b. socket.gethostbyname(host) c. sok.getpeername()
d. socket.gethostname()
15- In pack method what is the size of return value if the format =' <i'< td=""></i'<>
2 bytes b. 8 bytes c. 4 bytes d. Otherwise
16 DNS record type that used to map a domain name as an alias for another domain
a. AAAA b. MX c. TXT d. CNAME
17- Consider the following program
def resolve_mail(domain):
answer=dns.resolver.query(domain,'MX')
if answer.rrset is not None:
records = sorted(answer)
for record in records:
(1)(1)
resolve_host(name)
resolve_mail('google.com')
To print the priority of the mail server we write in (1)
a. print(record.priority) b. print(record.preference) c. print(record.exchange) d. Otherwise
18-To delimit your messages so that the receiver can tell where one message ends we use
a. Use fixed length message b. Delimit your messages with special characters c. prefix each
message with its length d. All of the above
19- In dns.resolver.query(name, qtype, raise_on_no_answer=False), raise_on_no_answer option used to
a. Prevent exception happen when the record type not exists b. Prevent showing answer
c. Prevent display record type d. Otherwise
20- To bind s socket to host and port we use
a. bind (host, port) b. s.bind((host, port)) c. socket.bind(host, port) d. s.bind(host,port)
21 method used to set time out for s socket object
a. s.settimeout(10) b. s.settimeout() c. both a, b d. socket.settimeout()
22- Which protocol use for real-time services?
a. TCP b. UDP c. both a and b d. Otherwise
23- In encode method what is default value for encoding parameter?
a. utf-16 b. ascii c. cp500 d. UTF-8
24- If we send several blocks of data that are each prefixed with their length, we encode the length with
a. struct.pack b. struct.upack c. encode d. bytes
25- if we pass a hostname instead of an IP address to bind () method and the hostname lookup fails
exception will appear a. OSError b. socket.timeout c. socket.gaierror d. Otherwise
26- In TCP socket method used to receive data in server assume we create sok socket object a. sok.recv(bufsize) b. sok.recvfrom(bufsize) c. both a, b d. Otherwise
a. sok.recv(bufsize) b. sok.recvfrom(bufsize) c. both a, b d. Otherwise 27 option allow you to reuse the port and IP for server in TCP socket
a. SOCKET REUSEADDR b. REUSEADDR c. SO REUSEADDR d. Otherwise
a. SOCKET REOSEADOR U. REOSEADOR C. SO REOSEADOR d. Odierwise

```
infoL =socket.getaddrinfo(None, 'smtp', socket.AF_INET, socket.SOCK_STREAM)
    inf = infoL[0]
    -----(1) ------
    sok.bind(inf[4])
    sok.listen()
To create socket object we write in (1)
   a. sok = socket.socket(inf[0:3])
                                        b. sok = socket.socket(*inf[0:3])
      c. sok = socket.socket(inf)
                                        d. sok = socket.socket(*inf)
29- To get protocol number for TCP we use -----
   a. socket.getprotobyname('TCP')
                                        b. socket.getprotobynumber('TCP')
                                                d. Otherwise
      c. socket.getprotoname('TCP')
30-The address family for IPv4 is -----
                                               c. AF INET d. Otherwise
   a. AF INET4
                          b. AF INET6
```

import socket

"with best wishes"

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