

## **Faculty of Computers**

a.

And Artificial Intelligence

## **Network Programming**

Third level

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Date: 23/6/2022

NC221

	NC321		1 1111	e. 2 nours
Q1. Computer Networks Multiple	Choice Questions	(MCQs) (60 DE	GREE)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1- One of the following classes are us	sed for connection	based socket prog	gramming?	
a. Datagram Socket b. Datagram Pa	acket c.	Both a, b	d. Otherwise	
2- The recyfrom method used in				
a. Server socket b. Client soc	cket c.	Both a, b	d. Otherwise	
3is the port number for				
a. 80 b. 53		c. 21	d. 25	
4 sockets, negotiates a new	stream with anot			ndshake
a. UDP b. TCP			d. Otherwise	
5 Flag is used to set bro				
a. SO_BROADCAST b. SOL_B	ROADCAST	c. BROADCAST		
d. SOCKET BROADCAST				
6- Which method of the socket modu	le allows you to so	end data to a given	address in clie	nt STREAM
socket using sok socket object	1?	<b>6</b>	1	
a. sok.sendto(address, data)	b. sok.send (addre	ess, data) c. sol	k.send (data)	d. Otherwis
7- The result of the following python	program is	,,		
dcf thrd1(i):				
print(i)				-
i = i + 1				
i=10				
t1 = threading.Thread(tar	get= thrd1, args=	(i))		- '   .
print(i)	, g.,			
tl.start()				
	c. Exception	d. Otherwise		
8 method used only in Serv				
a. accept() b. conn		oind()	d. Otherwise	
9- What method that return the address			it?	
<ol> <li>a. mysocket.gethostname()</li> </ol>		nysocket.gethostby		
		et.getsockname()		
10- to disallowed receiving data in so				•
a. sok.SHUT RD()		sok.shutdown(soci	cet.SHUT RD)	
c. sok.shutdown(socket.SHUT WR)		shutdown(sok.SHI		
11- What method used to return the re		•		ed?
a. sok.gethostbyaddr() b. sok.g				d.
sok.gethostname()	<i>y</i>		V	
12 DNS record type that sp	ecifies a mail serv	er responsible for	accepting emai	l messages
	c. MX	d. NS	1, 0	
13- What function used to get port nu				

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

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)
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
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

```
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 ---
                                        b. socket.getprotobynumber('TCP')
  a. socket.getprotobyname('TCP')
                                                d. Otherwise
      c. socket.getprotoname('TCP')
30-The address family for IPv4 is -----
                                               c. AF INET
   a. AF INET4
                           b. AF INET6
                                                            d. Otherwise
```

import socket

"with best wishes"

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