Instruc	tion: If you think some information is missing then make an assumption and write it clearly.
Questio	on 1: [CLO:1] [5 marks]
1.	malware type does not modify the total size of infected file.
	A. prepending
	B. appending C. overwriting
	© cavity
2.	In Kerberos protocol, the Ticket-Granting Server (TGS) issuesto clients.
	A. ticket-granting tickets
	B. verification tickets
(C. service tickets D. correct-user tickets
3	Which one of the following characters is most important to restrict when performing input
٠,	validation to protect against XSS attacks?
	A. &
	B. !
	<u>(C)</u> <
j	D. \$
1	What is the best design for input validation?
٦.	A. Detecting attacks and rejecting them A. Detecting attacks and rejecting everything else
	C Setting a policy for bad input and logger
	n None of the above
	lation technique to protect from
5	Random Sample Query is a perturbation technique of
5.	A. Data, In-band
	B. Output, In-band
	C. Data, Inferential
	D. Output, Inferential
	D. Carp-

systems as well.

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(application)

If a client wants to access a specific service from application server then how the user will be authenticated? Partial information is provided in the following figures. Complete the missing information and explain each process in the right column.

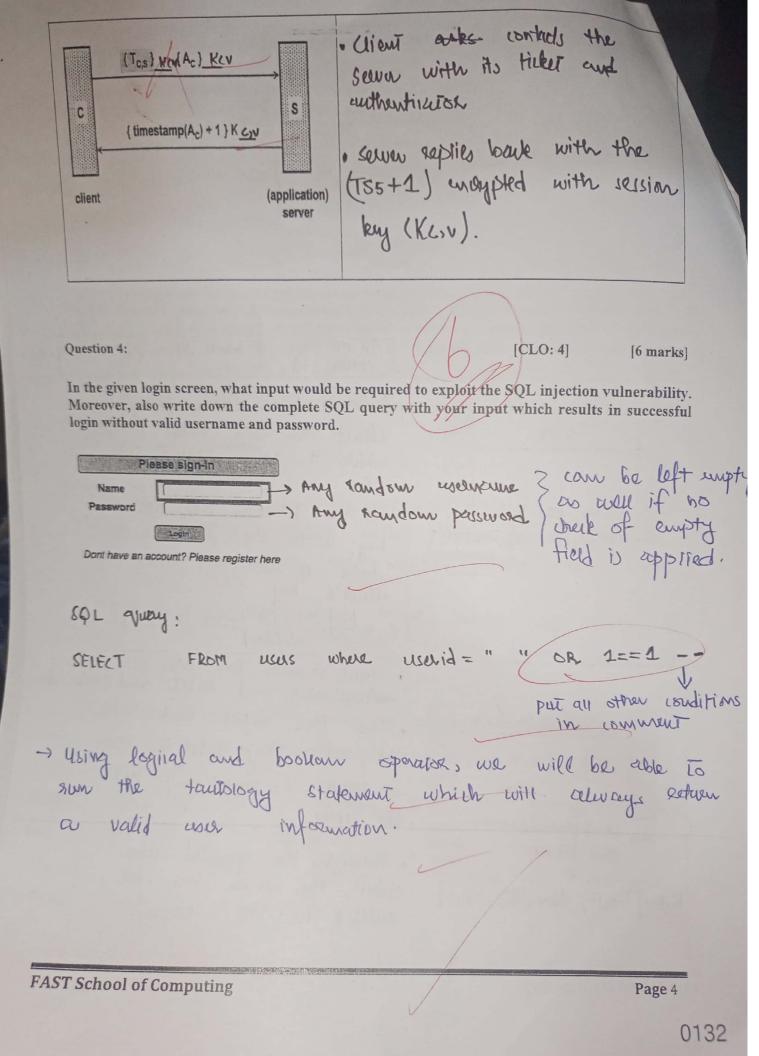
client

sever id as v. · Authentication selver gives the client the Tors ticker through which it cam contain the C, TGS TES · It also provides the session key with this. The whole (90 Tors, TS1) 1Kc lifetime, (Kc, Ters), Ticket Tas ? duta is emugated with the client's key. Authentication client Server C (KC | GDTAS, TSI, lifetime, Kc, Tars, AS · Went connerts Tors with its authenticator and ticket and sever id. . The Ters Replies back with s, {Tc. tos} Kros, {Ac} Kc, Tens the session key, tikel is alkes G C a sever V, timestamp in the seply. client Chest Authoritately · Theoreth the granted server ticket, the server can be accessed in the session. Granting Kesters Ticketv, 9Dv, TS3, Kesv

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er the given questions according to the following code. Note that be ig/integer input from user. It takes two parameters: input_format and dest_address. ata in memory is stored in ASCII encoding. int getMarks (int rollNumber); Boolean checkName (int rollNumber, char* firstname); int main (int argc, char **argv) Boolean valid = False; int rollNumber = 0; int marks = 0; char firstname[15] = ""; printf("Enter your roll number: "); scanf("%d", &rollNumber); // function to get marks from the database marks = getMarks(rollNumber); printf("Enter your first name: "); scanf("%s", firstname); // function 'checkName' validates the name of the user against // the rollNumber and returns a Boolean value. valid = checkName(rollNumber, firstname); if (valid == False) return 0; printf("%s ", firstname); printf("your marks are %d\n", marks); return 0; MI address. first name 1. Depict how stack will grow? rom number HI address. rd number nut address destruction input format adverse LET address string 2011 Number Main function Potal ragin function local variables variables Page 5 **FAST School of Computing** All point and sount will could in this way, 0132 2. Identify the problem in the above code?

- No input type and sange theres have been applied.

- No theres for buffer laugth are there.

- Uses can try exploiting the buffer, integer overflow techniques to disturb the results.

3. How can you exploit firstname input to display 98 as your marks?

Buffer length specified for fixstname is 15. We come
while It manachers as the first name input with
while It manachers as 48. This will cause overflow of
name brefer to the marks buffer.