## लोक सेवा आयोग

## प्राविधिक शिक्षा तथा व्यावसायिक तालिम परिषद्, प्रशिक्षण इन्जिनियरिङ, कम्प्युटर, सहयाकस्तर प्रथम, कम्प्युटर सहायक प्रशिक्षक पदको खुला प्रतियोगिता लिखित परिक्षा

२०८१-०८-१७

सम	ायः ४५मिनेट		KEY[D)					
Mι	ultiple Choice		50*2=100 Marks					
1.	Which of the following is an attribute that can uniquely identify a row in a table?							
	A) Secondary key		B) Candidate key					
	C) Foreign key		D) Alternate key					
2.	Which of the follo	wing levels in ANSI	/SPARC architecture	is related	to how data are			
	actually stored in t	he databased?						
	A) Physical level		B) Logical level					
	C) View level		D) External level					
3.	What is a program	n in execution called	d?					
	A) Paging	B) Process	C) Virtual mem	nory [	D) Demand page			
4.	Which mode load	s a minimal set of d	lrivers when starting	windows?	?			
	A) Safe mode	B) Normal mode	C) VGA mode	D) Netwo	ork support mode			
5.	Which of the follo	wing algorithms ch	ooses the page that	has not be	en used for the			
	longest period of time whenever the page required to be replaced?							
A) First in first out algorithm  B) Additional reference bit algorithm								
	C) Least recently us	=	D) Counting based					
<b>6.</b>	Using CHMOD, if v	we want to give ALI	permissions to a us	er, which	mode is used?			
	A) 666	В) 667	C) 776	D) 77	77			
<mark>7.</mark>	An increase in a co	omputer RAM leads	s to a typical improv	ement in p	erformance			
	<mark>because</mark>							
	A) fewer page fault	ts occur	B) virtual memory increases					
	C) fewer segmenta	tion faults occur	D) a lager RAM is fater					
8.			ot provide the user's	program v	<mark>vith a linear and</mark>			
	contiguous addres	s space?						
	A) Paged memory	management	B) Single contiguous					
	C) Partitioned alloc	ation	D) Segmer	nted memo	ory management			
۵	CDI I scheduling is	the basis of which	of the following system	amc2				

C) Multiprocesso	or system	D) Multiuse	D) Multiuser system		
10. Which of the fol	llowing principles of obje	ect-oriented programming	g is demonstrated		
		d for different types of ac			
A) Encapsulation		B) Polymorphism			
C) Inheritance		D) Abstraction			
11. The keyword us	ed to define non-access	<mark>modifier in JAVA program</mark>	nming is		
A) static	B) final	C) const	D) public		
12. Have and about an		: ca			
	represented in memory primitive data type		of same class		
C) An array of ch		D) Linked list			
C/ All allay of cir	aracters	b) Linked list	or characters		
13. Automatic initia	llization of object is carri	ed out using a special me	mber function called		
A) Friend		B) Casting			
C) Reference Par	ameter	D) Constructor			
		are further subdivided in			
A) Clusters	B) Sectors	C) Vectors	D) Blocks		
15 The only comma	and-oriented OS is				
A) Ubuntu	B) Windows	C) MAC	D) DOS		
,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- <b>/</b>	<b>5,</b> 5	-,		
16. A batch file is a	script file that stores cor	nmands to be executed ir	<mark>ı Order.</mark>		
A) Serial	B) Parallel	C) LIFO	D) Alphabetical		
		l memory between main	memory and CPU?		
A) Register mem	•	B) Cache memory			
C) Virtual memoi	ry	D) Register			
10 In computer all	calculations are perform	od in			
A) Control unit	calculations are periorin	B) Memory unit			
C) Arithmetic and	d Lagic unit	D) Register			
oj Andimiciic and	בסטוכ מווונ	D) Negister			
19. Which is valid st	tatement?				
A) 1 KB 1024 Byt		B) 1 MB 1024 Bytes			
C) 1 KB 1000 Byte	es	D) 1 MB 1000 Bytes			

B) Larger memory sized system

A) Multiprogramming operating system

20		B) ERAM		D) EEDAM		
24	A) SRAM	•	C) DRAM	D) EERAM		
<b>Z</b> 1	A) Paragraphs	B) Cells	belong to word processing C) Words	D) Characters		
	7.7 1 41 48.4 49.13	<i>5</i> / ce <i>5</i>	<i>5</i> , <i>110.00</i>	D) characters		
<mark>22</mark>	. A PowerPoint des	ign template is stored	in any file with Extens	<mark>sions</mark>		
	A) pot	B) dtp	C) ptt	D) ppt		
<b>22</b>	Which of the follo	wing networks is acce	ssible to only authorized u	sers outside the		
23	organization?	wing networks is acce.	ssible to only authorized d	sers outside the		
	A) Internet	B) Intrane	t C) Extranet	D) LAN		
	7 y meeriee	b) merane	c cy Extranet	טן ט װע		
<mark>24</mark>	. Superscript, subsc	cript, outline, emboss,	engrave are known as par	t of		
	A) Text Effects	B) Font Style	C) Font Effects	D) Word Art		
		<u> </u>				
<b>25</b> .		cut for inserting a page				
	A) Ctrl + break	B) Ctrl + tab	C) Ctrl + space	D) Ctrl + enter		
26	In word processin	g, the task of changing	the appearance of a docu	ment is called		
	A) Editing	B) Proofing	C) Inserting	D) Formatting		
	A) Luiting	b) 1100mig	c) mserting	D) i ormatting		
<mark>27</mark>	. Computer virus is					
	A) a computer dise	ase	B) a set of instruction	ons/program code		
	C) a bacteria		D) a system softwar	е		
<mark>28</mark>			HTTP request message?			
	A) Request line	B) Header line	C) Status line	D) Entity line		
20	Which layer of OS	I model does DNS belo	ong to?			
23	A) Network layer p			laver protocols		
	C) Session layer pro		•	<ul><li>B) Transport layer protocols</li><li>D) Application layer protocols</li></ul>		
30		wing protocols is used		layer protocols		
	A) Tunneling proto	<u> </u>	<u> </u>	nlevel protocols		
	C) Network protoco		D) Mailing protocols			
<mark>31</mark>	. Which of the follo	wing is false with resp	ect to TCP?			
	A) Connection orie	nted	B) Process to process			
	C) Transport layer	protocols	D) Unreliable			
<mark>32</mark>			tion by redirecting the use	er to a fake website		
	is usually called					
	A) Spooting	B) Phishing	C) URL redirection	D) URL hijacking		

<mark>33</mark>	. Which of the follow	wing multiple access	techniques is used by	IEEE 802.11 standard for		
	wireless LAN?					
	A) CDMA	B) CSMA/CA	C) CSMA/C	D) ALOHA		
<mark>34</mark>	. Which laver does I	Port Addressing belo	ng to?			
	A) Application layer		B) Network layer	r		
	C) Transport layer		D) Data link laye			
	e, manspore layer		D) Data iiii iaye	•		
<mark>35</mark>	. Which of the follo	wing devices assigns	IP address to devices o	onnected to a network		
	that uses TCP/IP?					
	A) DHCP Server	B) NIC	C) Gateway	D) DNS Server		
<mark>36</mark>	. Which of the follow	wing layers is respor	nsible for process to pro	ocess delivery in TCP/IP		
	model?					
	A) Application layer	r	B) Internet layer			
	C) Transport layer		D) Network access la	ayer		
<mark>37</mark>	. Which of the follow	wing traversal techn	iques is equivalent to d	epth first search?		
	A) Pre-order	B) Post-order	C) Level-ord	er D) In-order		
<mark>38</mark>	. In which of the fol	lowing categories do	oes Dijkstra's algorithm	belong to?		
	A) Dynamic program	mming	B) Backtrack	ring		
	C) Branch and bour	nd	D) Greedy			
<b>39</b>	. Recursion is achiev	vable using				
	A) Array	B) Tree	C) Queue	D) Stack		
		•				
<mark>40</mark>	. The goal of hashin	g is to produce a sea	rch that takes time	· <mark>.</mark>		
	A) O (1)	B) O (n2)	C) O (log n)	D) O (n log n)		
41	. Infix to postfix con	version is possible u	ising			
	A) Stack	B) Queue	C) Array	D) Tree		
<mark>42</mark>	. Shortest path betw	ween source and des	tination can be calculat	ted effectively with		
	A) DFS		B) BFS			
	C) Dijkstra's algoritl	hm	D) Prim's algorithm			
<mark>43</mark>	. Which of the follow	wing binary search t	ree traversal technique	displays information in		
	ascending order?					
	A) In-order	B) Pre-order	C) Post-order	D) No-order		

44.	W	nich data structure	e is one ended?						
	A)	Queue	B) Stack	C) Tree	D) Graph				
<mark>45.</mark>	W	hich of the followi	ng SQL commands	is used for removing (o	or deleting) a relation				
	fro	om the database?							
	A)	Drop	B) Delete	C) Rollback	D) Remove				
<mark>46.</mark>	W	hich of the followi	ng query is correct	for using comparison o	perators in SQL?				
	B) C)	Select from stude Select from stude	nt where age> 50 aint where age > 50 aint where age > 50 aint where age > 50 aint where age 50 <a< th=""><th>nd age &lt; 80 nd where age &lt; 80</th><th></th></a<>	nd age < 80 nd where age < 80					
<mark>47.</mark>	Re	lation R1 has 10 tu	ples and 5 attribute	es. Relation R2 has 0 tu	ıples attributes. When a				
cro	ss J	OIN is achieved be	tween R1 and R2 h	ow many tuples would	I the resultant set have?				
	A) (	0	B) 10	C) 35	D) 50				
<mark>48.</mark>	W	hich of the followi	ng dependencies is	used by 5NF?					
		Functional depend	• .	B) Join depend	ency				
		Multivalued depen	•	D) Partial dependency					
<mark>49</mark>	. А	file manipulation	command that extr	acts some of the recor	ds from a file is called.				
	A)	Select B) P	roject	C) Join	D) Product				
<mark>50</mark>	. W	hat is the differen	<mark>ce between restori</mark>	ng and recovering a da	<mark>tabase?</mark>				
	A)	Both are same							
	B)	Restoring is the pr	rocess of copying ba	ckup files from backup	media to disk. Recovery				
		is the process of a	pplying redo logs to	the database to roll it	forward				
	C)	is the process of applying redo logs to the database to roll it forward  Restoring is the process of rolling back the database to a previous time. Recovery is the process of copying backup files from backup media to disk							

D) Restoring is the process of rolling back the database to a previous time. Recovery is

the process of recovering the database from a critical system failure

1. (B)	2. (A)	3. (B)	4. (A)	5. (C)	6. (D)	7. (A)	8. (D)	9. (A)	10. (B)
11. (B)	12. (C)	13. (D)	14. (B)	15. (D)	16. (A)	17. (B)	18. (C)	19. (A)	20. (C)
21. (C)	22 (۸)	22 (C)	24 (C)	25 (D)	26. (D)	27 (P)	20 (4)	20 (D)	20 (4)
<b>21.</b> (C)	22. (A)	23. (C)	24. (C)	25. (D)	20. (D)	27. (B)	28. (A)	29. (D)	30. (A)
31. (D)	32. (B)	33. (B)	34. (C)	35. (A)	36. (A)	37. (A)	38. (D)	39. (D)	40. (A)
41. (A)	42. (C)	43. (A)	44. (B)	45. (A)	46. (B)	47. (A)	48. (B)	49. (A)	50. (B)