नेपाल विविध सेवा, कम्प्युटर अधिकृत राजपत्राङ्कित तृतीय श्रेणीका पदहरुको खुला र आन्तरिक प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

वस्तुगत बहुउत्तर नमूना प्रश्नहरु (Sample questions)

1)	SCANDISK analyze and rep A. Physical clusters	pairs damage to which B. FAT Correct Ans. (D)	of the following C. Lost Clusters	D. All of the above	
2)	DOS makes which of the special batch file named				
۷)	A. AUTOEXCE.BAT		UTOEXE.BAT		
	C. AUTOEXEC.BAT		UTOEXC.BAT		
	C. AUTOEAEC.BAT		U I OEAC.DA I		
2)	The true ments of the CDII or	Correct Ans. (C)			
3)	The two parts of the CPU ar		11 1 AT TT	_	
	A. Control unit and memory		ddresses and ALU		
	C. Addresses and Registers		ontrol Unit and ALU		
4)	Correct Ans. (D)				
4)	Operating is a	D 4	1' ' 0 0		
	A. System Software		pplication Software		
	C. Presentation Software		atabase Software		
	Correct Ans. (A)				
5)	Which key is used to work v				
	A. Shift key	B. Ctrl key	C. Alt key	D. Tab key	
	Correct Ans. (B)				
6)	The database element that re				
	A. Data	B. Information	C. Constraints	D. Schema	
	Correct Ans. (D)				
7)	Currently the most popular				
	A. Hierarchical	B. Object-Oriented	C. Relational	D. Deductive	
	Correct Ans. (B)				
8)	When we download anything from the internet which protocol works:				
	A. TCP/IP	B. FTP	C. HTTP	D. ARP	
		Correct Ans. (C)			
9)	What e-commerce category				
	A. Business to Business (B2B) B. Intra-Business (B2E)				
	C. Business to Consumer (B2C) D. Consumer to Consumer (C2C)				
		Correct Ans. (A)			
10) How is data transferred in serial communications?					
	A. 10 bits at a time.		B. 1 bit at a time.		
	C. 1 byte at a time.	D. 6	bits at a time		
		Correct Ans. (B)			
11) With respect to the interface network card, what does the term 10/100 refer to?					
	A. Protocol speed.	B. A	fiber network		
	C. Megabits per second.	D. M	Iinimum and maximu	m server speed	
		Correct Ans. (A)			
12) A workstation has just been installed on the Ethernet LAN but cannot communicate with the					
network. What should you do first?					
	A. Reinstall the network pr	otocols.			
B. Reinstall the network interface card driver.C. Verify the IP configuration on the workstation.D. Verify the link status on the computer's network card.					
Correct Ans. (C)					
13) To represent an entity in a model which of the following conventions are used					
A. Soft box with any dimension					
	B. Singular, unique entity name				
	C. Entity Name in uppercase				
	D. All of the Above.				

Correct Ans. (D)

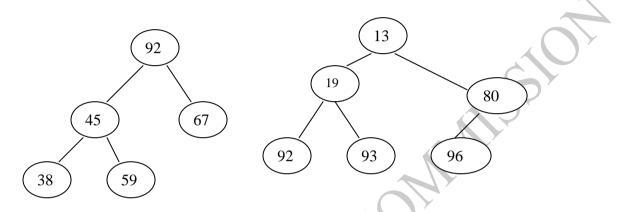
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- 14) SQL statement used to
 - A. Data Retrieve
 - B. Data manipulate
 - C. Data control
 - D. All of the above.

Correct Ans. (D)

विषयगत नम्ना प्रश्नहरु (Sample questions)

1) Merge operation between two heap trees



H1: A max Heap

H2: A min Heap

2) Preorder and postorder traversals of a binary tree given as below:

Preorder: u1 u2 u3 u4 u10 u8 u5 u9 u6 u11 u7

Postorder: u4 u10 u3 u8 u2 u9 u11 u7 u6 u5 u1 Obtained a binary tree, which resembles with traversals?

3) Use the do-while loops in nested form and produces the following output in Java.

Multiple Tables

1 2 3 2 4 6 3 6 9

4) Using C program Draw Result

5) Consider the following schema:

Suppliers (sid:interger, sname:srting, address: string)

Parts(<u>pid: integer</u>, pname: string, color: string)

Catalog (sid: integer, pid:integer, cost: real)

The key fields are underline, and the domain of each field is listed after the field name. Thus sid is the key for suppliers, pid is the key for parts, and sid and pid together form the key Catalog. The catalog relation list the prices charged for parts by suppliers. Write the following queries in relational algebra, SQL

• Find the Name of the suppliers who supply red part.

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Solution:

a. Relational algebra

 $\Pi_{sname}(\Pi_{sid}((\Pi_{pid} \sigma_{color='red'} Parts)) \propto Catalog) \propto Suppliers)$

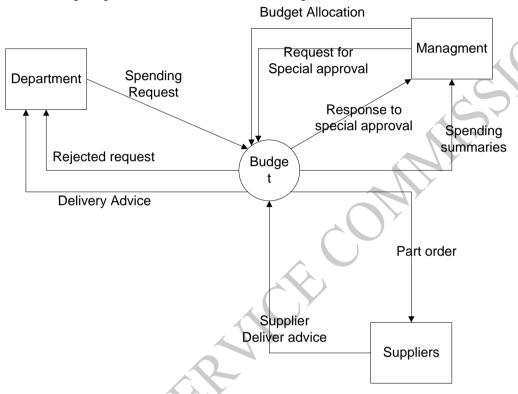
b. SQL

SELECT S.sname

FROM Suppliers S, Parts P, Catalog C

WHERE P.color='red' AND C.pid=P.pid AND C.sid=S.sid

6) Develop Top level DFD from Context Diagram



- विद्युतिय अभिलेख तथा डिजिटल हस्ताक्षर प्रभाणीकरण गर्ने निकायको इजाजत पत्र कुन कुन अवस्थामा
 नेपाल सरकारले रद्द गर्न सक्तछ । ब्दागत व्याख्या गर्नहोस ।
- द. राष्ट्रिय सूचना प्रविधि केन्द्र (National Information Technology Center वा NITC) को काम, कर्तव्य र अधिकार के के हन् ? छोटकरीमा वयान गर्नहोस् ।
- ९. e-Governance तथा e-Banking बारे परिचय तथा प्रयोगबारे छोटो व्याख्या गर्नुहोस् ।
- १०. सूचना प्रविधि नीति २०५७ ले किटान गरेको रणनीति अन्तरगतका कुनै १० वटा वुदाहरु लेख्नुहोस् ।
- 99. सूचना प्रविधि नीति २०५७ ले विद्युतीय व्यापार आदिको प्रवर्धन गर्न बनाएका ४ वटा बुदाहरु प्रस्तुत गरी व्याख्या समेत गर्नुहोस् ।
- नेपालमा कम्प्युटर प्रविधिको शुरुआत, विकास तथा प्रयोग बारे वयान गर्नुहोस् ।

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प्रयोगात्मक परीक्षाका नमूना प्रश्नहरु

1. Get IP address from given computers which are Network.

a. Give privileged share only database administration.

b. Determine if the following address are on local or remote network.

Node 1: 192.255.16.8 Node2: 192.225.14.8 Mask: 255.255.255.0

2. Create tables Student, Teacher, Course is SQL.

Student (Sid, Sname, subject, level)
Teacher (Tid, Tname, subject,)

Course (Cid, Cnumber, Tname, level)

a. Insert 10 values

b. Delete first two values.

3. Given a string

String S("123456789")

Write a program in C++ that displays the following: