	estion Paper with Final (Revised) wer Key for the Post of	Lecturer, Computer Engineering (Polytechnic)	held on 23-03- 2021
	Itemcode: LP1001 Q1: In comparison to binary search, linear search is highly inefficient when dealing with:		
Α	Small, sorted arrays.		
В	Small, unsorted arrays.		
С	Large, sorted arrays.		
D	Large, unsorted arrays.		
Coi	rrect Ans: <b>C</b>		
Itemcode: LP1002  Q2: How many minimum comparisons are required to search a sorted vector of 1023 elements using the binary search algorithm?			
A	10		
В	12		
С	62		
D	1023		
Coı	rect Ans: A		
Q3	node, and the pointer in the last node points b		ointer to the next
Α	Singly-linked list.		
В	Doubly-linked list.		
С	Circular, singly-linked list.		
D	Circular, doubly-linked list.		
Coi	rrect Ans: C		
Ite <b>Q4</b>	mcode: <b>LP1004</b> Given that k is an integer array starting at local bytes of memory, what location does kPtr + 3		teger is stored in 4
A	2503		
В	2506		
С	2512		
D	2524		
Coi	rect Ans: <b>C</b>		
Thomas day 1 D100F			
<u>Ite</u> <b>Q5</b>	mcode : <b>LP1005</b> : Which file open mode would be used to write c	lata only to the end of an existing file?	

ios::in

B ios::out

C ios::app

D ios::trunc

```
Correct Ans: C
Itemcode: LP1006
Q6: How many times is the comparison i <= n performed in the following program?
        int i = 10, n = 1000;
        main() {
        while (i \le n)
             i = i+1:
              n = n-1;
                     }
        }
   494
    495
В
    496
C
    990
D
```

## Itemcode: LP1007

Correct Ans: C

Q7: Suppose we want to sort an array in descending order and we implement quicksort so that we always choose the last element in the array as the pivot element. Assume that the input is a permutation of {1,2, ..., n}. Which of the following would be a worst case permutation of this input for this implementation of quicksort?

- $\{1, 2, ..., n\}$  with all even numbers in random order followed by all odd numbers in descending order.
- $\mathbf{B}$   $\{1, 2, \ldots, n\}$  in descending order.
- $\mathbf{c}$  {1,2,...,n} in some random order.
- [1, 2, ..., n] with all odd numbers in ascending order followed by all even numbers in random order.

Correct Ans: B

## Itemcode: LP1008

Q8: An undirected graph G has 100 nodes and there is a path from every vertex to every other vertex in G. Suppose v1 and v2 are two vertices in G. Then, what can we say about the shortest path from v1 to v2?

- The path has at most 1 edge.
- B The path has at most 2 edges.
- **C** The path has at most 50 edges.
- $\mathbf{p}$  The path has at most 99 edges.

Correct Ans: **D** 

Qg	):	Anjali has enrolled for a part-time Masters programme where she has to complete 8 courses, numbered $1, 2, \ldots$ , $8$ . Each course takes a full semester to complete. She can take as many or as few courses as she wants in each semester.
		Some courses are prerequisites for other courses. If course A is a prerequisite for course B, she can take course B the semester after she finishes course A, or any time after that, but not before. Given the following information about prerequisites, compute the minimum number of semesters she needs to complete these courses.
		Prerequisites for course 1: course 2,4,5,7
		Prerequisites for course 2: course 3
		Prerequisites for course 3: course 5,6
		Prerequisites for course 4: course 8
		Prerequisites for course 5: course 8
		Prerequisites for course 6: course 7,8
A	3	
В	4	
С	5	
D	6	
Со	rre	ct Ans: C
Ite	mce	ode : LP1010
		Consider the following fragment of code for a graph algorithm on an undirected graph. for each vertex i in V
		mark i as visited
		for each edge (j,i) pointing into i
		for each edge (j,i) pointing into i update weight(j,i) to weight(j,i) + k
A	0	update weight(j,i) to weight(j,i) + $k$ Which of the following is the most accurate description of the complexity of this fragment. (Recall that n is the
A B		update weight(j,i) to weight(j,i) + $k$ Which of the following is the most accurate description of the complexity of this fragment. (Recall that n is the number of vertices, m is the number of edges.)
	0	update weight(j,i) to weight(j,i) + k  Which of the following is the most accurate description of the complexity of this fragment. (Recall that n is the number of vertices, m is the number of edges.)  (n)

Itemcode: LP1011 Q11: Suppose we do merge sort with a three-way split: divide the array into 3 equal parts, sort each part and do a way merge. What would the worst-case complexity of this version be?		
	A	$O(n^2)$
	В	O(n <sup>2</sup> log3n)
İ	С	O(n log2n)

Correct Ans: **B** 

Correct Ans: D

Itemcode: LP1012
Q12: What is the complexity of in order traversal for a binary search tree with n nodes?

A O(log n) whether the tree is balanced or unbalanced.

B O(log n) if the tree is balanced, O(n) otherwise.

c O(n) whether the tree is balanced or unbalanced.

 $\mathbf{D}$  O(n) if the tree is balanced, O(n log n) otherwise.

Correct Ans: C

Itemcode: LP1013

Q13: Which of the following is not a greedy algorithm?

A Dijkstra's algorithm for single source shortest paths

**B** Bellman-Ford algorithm for single source shortest paths

c Prim's algorithm for minimum cost spanning tree

Kruskal's algorithm for minimum cost spanning tree

Correct Ans: B

Itemcode: LP1014

Q14: Suppose a new generation CPU can process  $10^{10}$  operations per second. You have to sort an array with  $10^8$  elements. Which of the following is true?

A Insertion sort could take several hours while merge sort will always take less than 1 second.

B Insertion sort will always take several hours while quicksort will always take less than 1 second.

c Insertion sort will always take several hours while merge sort will always take less than 1 second.

Insertion sort could take several hours while quicksort will always take less than 1 second.

Correct Ans: A

Itemcode: LP1015

Q15: What is the value of the postfix expression?

a b c d + -\* (where a = 7, b = 4, c = 2 and d = 5)

A 243

**B** |-243

**c** 21

**D** |-21

Correct Ans: D

Itemcode: LP1016

**Q16:** If T(n) is  $O(n^2 \log n)$  then which of the following is false?

Α

	T(n) is O(n <sup>2</sup> )
В	$T(n)$ is $O(n^2 \sqrt{n})$
С	T(n) is O(n <sup>3</sup> )
D	$T(n)$ is $O(n^3 \sqrt{n})$
Correct Ans: A	

Q17: City authorities are concerned about traffic accidents on major roads. They would like to have ambulances stationed at road intersections to quickly reach the scene of any accident along these roads. To minimize response time, ambulances are to be located at intersections with traffic lights so that any segment of road can be reached by at least one ambulance that does not have to pass through a traffic light to reach the scene of the accident. If we model the road network as a graph, where intersections with traffic lights are vertices and edges represent road segments between traffic lights, the graph theoretic question to be answered is:

- A Find a spanning tree with minimum cost.
- **B** Find a minimal colouring.
- c Find a minimum size vertex cover.
- **p** Find a minimum size independent set.

Correct Ans: C

Itemcode: LP1018

Q18: Suppose SAT reduces to a problem A. To claim that A is NP-complete, we additionally need to show that:

- A There is a checking algorithm for A.
- **B** Every instance of A maps to an instance of SAT
- **c** Every instance of SAT maps to an instance of A.
- A does not have an efficient algorithm.

Correct Ans: A

Itemcode: LP1019

**Q19:** Suppose we run Prim's algorithm and Kruskal's algorithm on a graph G and the two algorithms produce minimum-cost spanning trees  $T_1$  and  $T_2$ . Which of the following is true?

- $\mathbf{A} \mid \mathsf{T}_1 \text{ must be identical to } \mathsf{T}_2$  .
- $\mathbf{B}$  If  $\mathsf{T}_1$  is different from  $\mathsf{T}_2$ , some pair of edges in G have the same weight.
- $\mathbf{c}$  If e is a minimum cost edge in G, e belongs to both  $T_1$  and  $T_2$ .
- $_{\mathbf{D}}$  | If e is a maximum cost edge in G, e belongs to neither  $\mathsf{T}_1$  nor  $\mathsf{T}_2$

Correct Ans: B

Itemcode: LP1020

**Q20:** Suppose we run the Bellman-Ford algorithm on a weighted graph with n vertices and observe that some distances decrease in iteration n+1. Which of the following is not a valid conclusion.

- A The graph has negative edge weights
- The graph has a negative cycle.

D	Some shortest path entry in iteration n+1 must be negative.
Cor	rect Ans: <b>D</b>
T4	
	$\frac{\text{ncode}}{\text{1:}} \text{ Let f be the function from R to R with f } (x) = 1/(1+x^2). \text{ Then f is}$
A	one-to-one
В	invertible
С	not invertible
D	bijective
Cor	rect Ans: C
	ncode: LP1022 2: How many ways are there to assign 5 different jobs to 4 different employees if every employee is assigned at least 1 job?
A	20
В	240
С	625
D	1024
Cor	rect Ans: B
	$\frac{1}{G}$ If G is a simple graph with 36 edges and $\overline{G}$ has 30 edges, how many vertices does G have?
A	10
В	11
С	12
D	24
Cor	rect Ans: C
Thou	ncode : LP1024
	4: If the product of two integers is 2 <sup>7</sup> 3 <sup>8</sup> 5 <sup>2</sup> 7 <sup>11</sup> and their greatest common divisor is 2 <sup>3</sup> 3 <sup>4</sup> 5, what is the least common multiple?
A	2 <sup>4</sup> 3 <sup>4</sup> 5 <sup>1</sup> 7 <sup>11</sup>
В	2 <sup>7</sup> 3 <sup>8</sup> 5 <sup>2</sup> 7 <sup>11</sup>
С	2 <sup>11</sup> 3 <sup>12</sup> 5 <sup>3</sup> 7 <sup>11</sup>
D	2 <sup>21</sup> 3 <sup>32</sup> 5 <sup>2</sup> 7 <sup>11</sup>
Cor	rect Ans: <b>A</b>

**C** If we iterate further, distances will continue to decrease.

Itemcode : LP1025

Q25:

	In how many ways can we write 20 as a sum of 3 non-negative integer?	
١.	153	
3	231	
C	816	
D	1540	
Cor	rect Ans: <b>B</b>	
	<ul> <li>ncode : LP1026</li> <li>In a farewell party, 8 friends wanted to give gifts to each other. Each person brings one gift and receives one in return. No one receives the gift that he / she brought. In how many they can distribute these 8 gifts?</li> </ul>	
A	256	
В	265	
С	1854	
D	14,833	
Cor	rrect Ans: <b>D</b>	
<u>Itemcode</u> : LP1027 Q27: A Software development team has 13 members comprising of 6 women and 7 men. How many groups of 7 members can be chosen that contains 3 women and 4 men?		
Α	55	
В	110	
С	600	
D	700	
Cor	rrect Ans: <b>D</b>	
Itemcode: LP1028  Q28: If p is a statement, then which of the following is a Tautology?		

 Itemcode : LP1028

 Q28: If p is a statement, then which of the following is a Tautology ?

 A
 p ∧ F

 B
 p ∨ F

 C
 p ∨ ¬p

 D
 p ∧ T

 Correct Ans: C

Itemcode: LP1029

Q29: How many integers from 100 to 999 must be picked in order to be sure that atleast 2 of them have a digit in common?

A 2

B 3

C 10

D 11

Co	rrect Ans: <b>C</b>		
	<u>Itemcode</u> : <b>LP1030 Q30:</b> Every simple, connected graph has number of odd degree vertices.		
Α	Even		
В	Zero		
С	Odd		
D	Cannot say		
Co	rrect Ans: <b>A</b>		
	mcode: LP1031  1: Pick entities from the following:		
	(i) vendor		
	(ii) student		
	(iii) attends		
	(iv) km/hour		
A	(i), (ii) and (iii ) only		
В	(i), (ii) and (iv ) only		
С	(i) and (ii) only		
D	(iii) and (iv) only		
Со	rrect Ans: <b>C</b>		
1	mcode: <b>LP1032 2:</b> The attributes of relationship teaches in teacher <u>teaches</u> course should be		
Α	teacher code, teacher name, dept, phone no		
В	course no, course name, semester offered, credits		
С	teacher code, course no, semester no		
D	teacher code, course no, teacher name, dept, phone no		
Co	rrect Ans: C		
	<ul> <li>Itemcode: LP1033</li> <li>Q33: A student can take not more than 5 subjects in a semester. The number of students allowed in a subject in a semester is not more than 40. The student- subject relationship is:</li> </ul>		
A	5:40		
В	40:5		
С	N:5		
D	40:M		
Со	rrect Ans: <b>B</b>		

It is not in 1 NF

It is not in 1 NF

It has a composite key

C non-key attribute vendor name is dependent

Correct Ans: C

Itemcode: LP1036
Q36: A relation is said to be in BCNF when

it has overlapping composite keys

it has no composite keys

c it has no multivalued dependencies

b it has no overlapping composite keys which have related attributes

Correct Ans: D

Itemcode: LP1037
Q37: Data integrity in a file-based system may be lost because

A the same variable may have different values in different files

B files are duplicated

C unnecessary data is stored in files

D redundant data is stored in files

Correct Ans: A

Itemcode: LP1038  Q38: Which of the following is not a super key in a relational schema with attributes V, W, X, Y, Z and primary key VY?		
Α	VWXY	
В	VXYZ	
С	VWXZ	
D	VWXYZ	
Coi	rrect Ans: <b>C</b>	

Q39: Let the set of functional dependencies:

$$F = \{ BC \rightarrow D, C \rightarrow A, D \rightarrow B \}$$

hold on a relation schema X=<ABCD>. X is not in BCNF Suppose X is decomposed into two schemas Y and Z, where Y=<AC> and Z=<BCD>.

Consider the two statements given below.

- I. Decomposition of X into Y and Z is dependency preserving and lossless
- II. Both Y and Z are in BCNF

Which of the above statements is/are correct?

Α	I only		
В	II only		
С	Neither I nor II		
D	Both I and II		
Correct Ans: A			

	Itemcode : LP1041 Q41: What is User Agents in SMTP		
A	It sends and receives the message		
В	It transfers the mail across the internet		
С	It prepares the message, encloses it in an envelope		
D	It acts as a Mail Box		
Со	Correct Ans: C		

Itemcode : LP1044

Q44: If a go-back-N ARQ uses 7 bit sequence number space, then the maximum sender window size will be

A
63

B
64

C
127

D
128

Correct Ans: C

Itemcode : LP1045

Q45: If maximum network layer payload size is 1480 bytes, what is the maximum TCP payload size?

A
1440

B
1456

C
1460

D
1500

Correct Ans: C

Itemcode: LP1046

Q46: How does a TCP receiver handle out of order data?

A It simply discards the out of order data.

It discards the out of order data but sends a duplicate ACK.

C It stores the out of order data if there is space in receiver window, and sends a duplicate ACK.

D It stores the data in the receiver buffer and but does not send any ACK.

Correct Ans: C

 Itemcode : LP1048

 Q48: Why do we need the open flow protocol?

 A
 To communicate between packet forwarding switches.

 B
 To communicate between a legacy switch and a packet forwarding switch.

 C
 To communicate between a legacy switch and a legacy router.

 D
 To communicate between a SDN controller and a packet forwarding switch.

 Correct Ans: D

Itemcode : LP1049

Q49: What is jitter?

A Latency of network.

B Variance of delay.

C Variance of available bandwidth.

D Length of the queue at different router.

Correct Ans: B

Itemcode : LP1050	Q50: TCP/IP based computer Network is a
A	Packet-switched network
B	Circuit-switched network
C	Ram-switched network
D	Both Packet-switched network and Circuit-switched network
C	Correct Ans: A

Itemcode: LP1051

Q5:	<b>Q51:</b> How many headers and trailers are added by transport layer in TCP/IP protocol suit?		
Α	1 header and 2-3 trailers		
В	1 header and no trailer		
С	2-3 headers and no trailers		
D	2-3 headers and one trailer		
Correct Ans: <b>B</b>			

Itemcode: LP1052

Q52: Internet packet data structure consists of

(i) source address

(ii) destination address

(iii) serial number of packets

(iv) message bytes

(v) Control bits for error checking

A (i), (ii), and (iii) only

B (i), (ii), and (iv) only

C (i), (ii), (iii) and (iv) only

COTHECT Ans: D

 Itemcode : LP1053

 Q53: SGML stands for

 A
 Standard Generalized Markup Language

 B
 Structured General Markup Language

 C
 Standard Graphics Mapping Language

 D
 Standard General Markup Link

 Correct Ans: A

Itemcode: LP1055

**Q55:** For what types of operations is Direct Memory Access useful?

Α	For large and fast data transfers between memory and I/O devices.	
В	For large and slow data transfers between memory and I/O devices.	
С	For slow and small data transfers between memory and I/O devices.	
D	For small data transfers between memory and cache.	
Cor	rect Ans: A	
	ncode: LP1056 5: Which of the following is/are the disadvantage(s) of Pipes used for Inter process communication (IPC)?  I. they operate in one dimension only  II. they are useful when processes are schedulable and resident on same machine  III. this is insecure mode of communication  IV. pipes cannot support broadcast	
Α	I, II and III only	
В	I, II and IV only	
С	II, III and IV only	
D	I, II, III and IV	
Cor	rect Ans: <b>D</b>	
Itemcode : LP1057  Q57: What replacement policy is used by Windows NT?		
A	LRU	
В	NFU	
С	FIFO	
D	Clock Replacement	
Cor	rect Ans: C	
	ncode: LP1058  3: If the hit ratio to a TLB is 80%, and it takes 15 nanoseconds to search the TLB, and 150 nanoseconds to access the main memory, then what must be the effective memory access time in nanoseconds?	
Α	175	
B	185	

**Q59:** In a 64-bit machine, with 256 MB RAM, and a 4KB page size, how many entries will there be in the page table if its inverted?

A 2^12

195

205

Correct Ans: C

С

D

В	2^14
С	2^16
D	2^64
Correct Ans: C	

Itemcode	:	LP1060	١

**Q60:** Consider a paging system with the page table stored in memory. If a memory reference takes 200 nanoseconds, how long does a paged memory reference take?

	nanoseconds, now long does a paged memory reference take?		
A	100 nanoseconds		
В	200 nanoseconds		
С	400 nanoseconds		
D	600 nanoseconds		

Correct Ans: C

Itemcode: LP1061
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**Q61:** If the waiting time for a process is p and there are n processes in the memory then the CPU utilization is given by

	5,
A	p/n
В	p <sup>n</sup>
С	1- p <sup>n</sup>
D	n- p <sup>n</sup>

Correct Ans: C

## Itemcode: LP1062

**Q62:** Assume you have the following jobs to execute with one processor, with the jobs arriving in the order listed here:

I	T(pi) sec
0	80
1	20
2	10
3	20
4	50

Suppose a system uses FCFS scheduling What is the average wait time for the processes?

A	36 sec
В	84 sec
С	120 sec
D	130 sec
Correct Ans: B	

<u>Itemcode</u>: LP1063

**Q63:** A CPU scheduling algorithm determines an order for the execution of its scheduled processes. Given n processes to be scheduled on one processor, how many possible different schedules are there? Give a formula in terms of

A	n/2	
В	n	
С	n(n-1)	
D	n!	
Correct Ans: <b>D</b>		

**Q64:** When a process is rolled out of memory, it loses its ability to use the CPU (at least for a while). Choose another situation where a process loses its ability to use the CPU, but where the process does not get rolled out from the following options.

- A When an interrupt occurs.
- **B** When thrashing occurs.
- c When deadlock occurs.
- **D** While swapping.

Correct Ans: A

Itemcode: LP1065

**Q65:** Any string of terminals that can be generated by the following context free grammar (where S is start nonterminal symbol)

 $\mathsf{S} \to \mathsf{X}\mathsf{Y}$ 

 $X \rightarrow aX \mid bX \mid a$ 

 $Y \rightarrow Ya \mid Yb \mid a$ 

- A has at least one b
- **B** should end with a
- has no consecutive a's or b's
- has at least two a's

Correct Ans: D

<u>Itemcode</u>: LP1066

**Q66:** Consider the following statements:

- S1: The family of context free languages is closed under homomorphism
- S2: The family of context free languages is closed under reversal

Choose the correct option.

- A Only S1 is correct
- B Only S2 is correct
- **C** Both S1 and S2 are correct
- Neither S1 nor S2 are correct

Correct Ans: C

**Q67:** Which of the following languages on  $\sum =\{a, b, c\}$  are not context free?

I.  $L = \{ w \mid n_a(w) \le n_b(w) \le n_c(w) \}$ 

II.  $L = \{ a^n b^m \mid n \le m^2 \}$ 

III.  $L = \{ a^n b^k \mid n = m^2 \}$ 

A Only I

B Only III

c II and III only

D I, II and III

Correct Ans: D

Itemcode: LP1068

**Q68:** Let L be the set of all binary strings whose last two symbols are the same. The number of states in the minimum state deterministic finite automaton accepting the language L is

A 8

в 5

**c** |3

**D** 2

Correct Ans: B

Itemcode: LP1069

Q69: Every context-free grammar can be converted into an equivalent

A Chomosky Normal form

**B** Greibach Normal form

**C** Both Chomosky Normal form and Greibach Normal form

Neither Chomosky Normal form or Greibach Normal form

Correct Ans: C

Itemcode: LP1070

**Q70:** The language represented by the grammar:

 $S \rightarrow 00A, A \rightarrow 11S$  11

is described by

A (00+11)\*

**B** (0011)\*

c  $(00(11)^*)^*$ 

**D** (0011)+

Correct Ans: **D** 

Itemcode: LP1071

<b>Q71:</b> The result of addition of $(76)_8$ and $(26)_8$ is:		
Α	(124) <sub>8</sub>	
В	(102) <sub>8</sub>	
С	(104) <sub>8</sub>	
D	(122) <sub>8</sub>	
Correct Ans: A		

| Itemcode : LP1072 | Q72: Determine the number of clock cycles it takes to process 200 tasks in a 5-segment pipeline. 
A	200	
B	205	
C	204	
D	206	
Correct Ans: C		

Itemcode: LP1073

Q73: A digital computer has a memory unit of 64K x 16 and a cache memory of 1K. The cache uses a direct mapping with a block size of 4 words. How many bits are there in tag, index, and word fields of the address format?

A 6, 6, 4

B 6, 4, 6

C 8, 6, 2

D 6, 8, 2

Correct Ans: D

Itemode : LP1074

Q74: A instruction is stored at location 500 with its address field at location 501. The address field has the value 320. What is the effective address if the addressing mode is relative addressing mode?

A
821

B
822

C
820

D
1002

Correct Ans: B

Itemcode: LP1075

Q75: Which of the following statements are true?

- I. Control memory is used in microprogrammed control unit.
- II. Array processors are based on MIMD organization.
- III. Shift right operation divides the number by 2.
- IV. Most of the available computers follow MISD organization.

Α	I and III are true
В	I and IV are true
С	II and III are true
D	II and IV are true
Correct Ans: A	

**Q76:** Given below are two statements:

S1: In RISC machines memory access is limited to load and store instructions.

S2: CISC computers are capable of performing operation on memory operands directly.

On the basis of above statements, choose the correct answer from the options given below.

- ▲ Both SI and S2 are true
- Both S1 and S2 are false
- C S1 is true but S2 is false
- D S1 is false but S2 is true

Correct Ans: A

<u>Itemcode</u>: LP1077

Q77: Given that  $a_0 = 1$ ,  $a_n = n + (-1)^n a_{n-1}$  for  $n \ge 2$  What is the value of  $a_4$ ?

- A 5
- **B** 6
- **c** 8
- D 11

Correct Ans: A

Itemcode: LP1078

**Q78:** The \_\_\_\_\_ method provides a one-time session key for two parties.

- ▲ Diffie-Hellman
- **B** RSA
- c DES
- **D** AES

Correct Ans: A

Itemcode: LP1079

Q79: Ridge difficulty in hill climbing search is a special kind of

- Local minimum
- **B** Global minimum
- c Local maximum

D	Global maximum		
Со	rrect Ans: <b>C</b>		
	Itemcode: LP1080  Q80: A 2-input single output NN has weight values [1.2 -2.6] and a bias of 1.4. It is given input [3.4 2.2] <sup>T</sup> . What is output if identity function is used as transfer function?		
Α	11.2		
В	8.4		
С	0.24		
D	-0.24		
Со	rrect Ans: <b>D</b>		
	mcode: LP1081  1: According to 2011 census what is the density of population in Kinnaur District of H.P.?		
Α	09		
В	13		
С	18		
D	21		
Co	rrect Ans: <b>B</b>		
	mcode: LP1082 2: In which district of H.P. the production of apple was highest during 2014-15?		
A	Chamba		
В	Kullu		
С	Shimla		
D	Kinnaur		
Correct Ans: C			
1	Itemcode: LP1083  Q83: Which district of H.P. had the highest literacy rate (2011 census)?		
A	Una		
В	Shimla		
С	Hamirpur		
D	Bilaspur		
Со	rrect Ans: C		
The	There and a 1 D4004		
1	mcode: LP1084  4: Which district of H.P. had the lowest Scheduled Tribe population (2011 census)?		
A	Una		
В			

	Shimla	
С	Hamirpur	
D	Bilaspur	
Cor	rect Ans: C	
Itemcode : LP1085  Q85: When was the first cabinet sworn-in in H.P.?		
A	December 1951	
В	January 1952	
С	February 1952	
D	March 1952	
Cor	rect Ans: <b>D</b>	
Itemcode : LP1086  Q86: Near which town of H.P. is Khokhan sanctuary?		
A	Bhunter	
В	Arki	
С	Bathree	
D	Bhota	
Cor	rect Ans: A	
Itemcode : LP1087 Q87: In which district of H.P. is Chamera lake?		
A	Kangra	
В	Sirmour	
С	Bilaspur	
D	Chamba	
Cor	rect Ans: <b>D</b>	
Itemcode: LP1088  Q88: Who was the first voter who voted in India in 1951?		
A	Shyam Singh	
В	Shyam Bihari Negi	
С	Shyam Chand Negi	
D	Shyam Sharan Negi	
Correct Ans: <b>D</b>		
	ncode: LP1089 9: On the confluence of which rivers is Tandi situated?	

Α	Seer and Shukar		
В	Gambhar and Gambhrola		
С	Beas and Suketi		
D	Chandra and Bhaga		
Со	rrect Ans: <b>D</b>		
Itemcode: LP1090 Q90: Who was the first recipient of Param Vir Chakra in India?			
A	Lt. Gen. S.N. Sharma		
В	General V.N. Sharma		
С	Major Som Nath Sharma		
D	None of these		
Со	rrect Ans: C		
Itemcode: LP1091 Q91: Army War College is located in			
Α	Dehradun		
В	Mhow		
С	Delhi		
D	Khadakwasla		
Correct Ans: B			
Itemcode : LP1092  Q92: When was Botanical survey of India established?			
A	1890		
В	1905		
С	1916		
D	1921		
Correct Ans: A			
Itemcode: LP1093  Q93: Which one of the following does not have Zonal Branch of National Green Tribunal?			
A	Bhopal		
В	Pune		
С	Chennai		
D	Mumbai		
Correct Ans: <b>D</b>			
<u>Ite</u>	Itemcode: LP1094		

Q94: Goods and Services Tax (GST) Council was constituted in India?			
A	2014		
В	2015		
С	2016		
D	2017		
Со	rrect Ans: <b>C</b>		
Itemcode : LP1095       Q95: Border Security Force (BSF) was raised in India in			
A	1962		
В	1965		
С	1971		
D	1984		
Со	rrect Ans: <b>B</b>		
Itemcode : LP1096  Q96: What is the Capital of Mauritius?			
Α	Port Louis		
В	Manaco		
С	Jakarta		
D	Rabat		
Со	rrect Ans: <b>A</b>		
Itemcode : LP1097  Q97: Which is the coldest planet?			
A	Mercury		
В	Neptune		
С	Venus		
D	Jupiter		
Со	Correct Ans: <b>B</b>		
	Itemcode: LP1098  Q98: Which day is observed as World Literacy Day (UNESCO)?		
Α	April 10		
В	May 25		
С	September 08		
D	October 05		
Со	rrect Ans: <b>C</b>		

Itemcode : LP1099  Q99: From where is newspaper People's Daily published?			
Α	Beijing		
В	Moscow		
С	London		
D	Havana		
Correct Ans: A			
Itemcode: LP1100			
Q100: Malacca Strait is between			
Α	Java and India		
В	Andaman Sea and South China Sea		
С	Mannar and Bay of Bengal		
D	North Sea and English Channel		
Со	Correct Ans: <b>B</b>		