



Q.1

The Effective Access Time of Demand Paging is given by the formula

- (A)  $EAT = (1/p) * m + 1/p * \text{page fault time}$
- (B)  $EAT = (1-p) * m + p * \text{page fault time}$
- (C)  $EAT = (1+p) * m + p * \text{page fault time}$
- (D)  $EAT = (1-p) * m - p * \text{page fault time}$

Marks 1

Question ID:  
3206

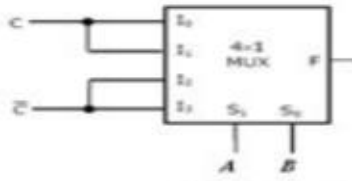
No	Options Details	Correct Option
1	A	
2	B	✓
3	C	

Q.1	<p>The Effective Access Time of Demand Paging is given by the formula</p> <p>(A) <math>EAT = (1/p) * m + 1/p * \text{page fault time}</math></p> <p>(B) <math>EAT = (1-p) * m + 1 + p * \text{page fault time}</math></p> <p>(C) <math>EAT = (1+p) * m + 1 + p * \text{page fault time}</math></p> <p>(D) <math>EAT = (1-p) * m + 1 - p * \text{page fault time}</math></p>	<div style="border: 1px solid black; padding: 5px; width: fit-content;">Question ID: 3206</div>
Marks	1	

No	Options Details	Correct Option
4	D	

Q.2	<p>Given that <math>AB + \bar{A}C + BC = AB + \bar{A}C</math>, then <math>(\bar{A} + C)(A + B)(B + C)</math> is equivalent to</p> <p>(A) <math>(\bar{A} + B)(A + C)</math></p> <p>(B) <math>(A + B)(\bar{A} + C)</math></p> <p>(C) <math>(A + \bar{B})(\bar{A} + C)</math></p> <p>(D) <math>(A + \bar{B})(\bar{A} + \bar{C})</math></p>	<div style="border: 1px solid black; padding: 5px; width: fit-content;">Question ID: 3207</div>
Marks	1	

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

Q.3	<p>The logic realized by the circuit shown in figure is</p> <div style="text-align: center;">  </div> <p>(A) <math>F = A.C</math></p> <p>(B) <math>F = A \oplus C</math></p> <p>(C) <math>F = B.C</math></p> <p>(D) <math>F = B + C</math></p>	<div style="border: 1px solid black; padding: 5px; width: fit-content;">Question ID: 3208</div>
Marks	1	

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

**Q.4** A mod 4 counter will count

**Marks** 1

**Question ID:**  
3209

No	Options Details	Correct Option
1	from 0 to 4	
2	from 0 to 3	✓
3	from any number n to n+4	
4	from 0 to 1	

**Q.5** Dividing a binary number by 8 can be accomplished by:

**Marks** 1

**Question ID:**  
3210

No	Options Details	Correct Option
1	Clearing the least significant three bits	
2	Shifting left three bits	✓
3	Shifting right three bits	
4	Setting the least significant three bits	

**Q.6**

The decimal value 0.5 in IEEE single precision floating point representation has

- (A) Fraction bits of 000...000 and exponent value of 0
- (B) Fraction bits of 000...000 and exponent value of -1
- (C) Fraction bits of 100...000 and exponent value of 0
- (D) No exact representation

**Marks** 1

**Question ID:**  
3211

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

**Q.7**

Which one of the following expressions does NOT represent exclusive NOR of x and y?

(A)  $xy+x'y'$

(B)  $x\oplus y'$

(C)  $x'\oplus y$

(D)  $x'\oplus y'$

**Marks** 1

**Question ID:**  
3212

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓

**Q.8**

The access time of cache is 100  $\mu$ s, the access time of main memory is 90  $\mu$ s, and hit ratio is 95%, then access efficiency related to cache is

**Marks** 1

**Question ID:**  
3213

No	Options Details	Correct Option
1	0.9569	✓
2	0.9869	
3	0.9469	
4	0.9969	

**Q.9**

The register which keeps track of the execution of a program and which contains the memory address of the instruction which is to be executed next is known as

**Marks** 1

**Question ID:**  
3214

No	Options Details	Correct Option
1	Index-register	
2	Memory address register	
3	Program counter	✓
4	Instruction register	

**Q.10** Which of the following data transfer mode takes relatively more time?

**Marks** 1

**Question ID:**  
3215

No	Options Details	Correct Option
1	DMA	
2	Interrupt initiated I/O	
3	Programmed I/O	✓
4	Isolated I/O	

**Q.11** Which memory is difficult to interface with processor?

**Marks** 1

**Question ID:**  
3216

No	Options Details	Correct Option
1	Static memory	
2	Dynamic memory	✓
3	ROM	
4	RAM	

**Q.12** For a magnetic disk with concentric circular tracks, the seek latency is not linearly proportional to the seek distance due to

**Marks** 1

**Question ID:**  
3217

No	Options Details	Correct Option
1	Non-uniform distribution of requests	
2	Arm starting and stopping inertia	✓
3	Higher capacity of tracks on the periphery of the platter	
4	Use of unfair arm scheduling policies	

Q.13

System calls are usually invoked by using

1. An indirect jump
2. A software interrupt
3. Polling
4. A privileged instruction

(A) 2 and 3

(B) 1 and 3

(C) 1, 2, 3 and 4

(D) 3 and 4

Marks 1

Question ID:  
3218

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

Q.14

In four-address instruction format, the number of bytes required to encode an instruction is (assume each address requires 24 bits, and 1 byte is required for operation code)

Marks 1

Question ID:  
3219

No	Options Details	Correct Option
1	9	
2	13	✓
3	14	
4	12	

Q.15

Consider the following C program segment.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    char s1[7] = "1234", *p;
```

```
    p = s1 + 2;
```

```
    *p = '0';
```

```
    Printf("%s", s1);
```

```
}
```

What will be printed by the program?

(A) 12

(B) 120400

(C) 1204

(D) 1034

Marks 1

Question ID:  
3220

No	Options Details	Correct Option
1	A	
2	B	
3	C	✓
4	D	

**Q.16**

Consider the following recursive C function that takes two arguments

```
unsigned int foo(unsigned int n, unsigned int r) {  
    if (n > 0)  
        return (n%r+ foo (n/r, r ));  
    else  
        return 0;  
}
```

What is the return value of the function foo when it is called as foo(513, 2)?

- (A) 9
- (B) 8
- (C) 5
- (D) 2

**Marks** 1

**Question ID:**  
3221

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓

**Q.17**

Suppose implementation supports an instruction REVERSE, which reverses the order of elements on the stack, in addition to the PUSH and POP instructions. Which one of the following statements is TRUE with respect to this modified stack?

**Marks** 1

**Question ID:**  
3222

No	Options Details	Correct Option
1	A queue cannot be implemented using this stack.	
2	A queue can be implemented where ENQUEUE takes a single instruction and DEQUEUE takes a sequence of two instructions	
3	A queue can be implemented where ENQUEUE takes a sequence of three instructions and DEQUEUE takes a single instruction	✓
4	A queue can be implemented where both ENQUEUE and DEQUEUE take a single instruction each	



**Q.18**

The following function reverse() is supposed to reverse a singly linked list. There is one line missing at the end of the function. What should be added in place of `/*ADD A STATEMENT HERE*/`, so that the function correctly reverses a linked list.

```
struct node
{
int data;
struct node* next;
};
static void reverse(struct node** head_ref)
{
struct node* prev = NULL;
struct node* current = *head_ref;
struct node* next;
while (current != NULL)
{
next = current->next;
current->next = prev;
current = next;
}
/*ADD A STATEMENT HERE*/
}
(A) *head_ref = prev;          (B) *head_ref = current;
(C) *head_ref = next;        (D) *head_ref = NULL;
```

**Marks** 1

**Question ID:**  
3223

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

**Q.19**

If a node having two children is to be deleted from binary search tree, it is replaced by its

**Marks** 1

**Question ID:**  
3224

No	Options Details	Correct Option
1	In-order predecessor	
2	In-order successor	✓
3	Pre-order predecessor	
4	Post-order successor	

Q.20

What is the worst case time complexity of creating a binary min heap from the elements in a binary search tree containing  $N$  elements?

- (A)  $O(1)$  (B)  $O(N)$   
(C)  $O(\log N)$  (D)  $O(N \log N)$

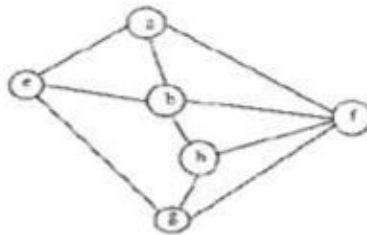
Marks 1

Question ID:  
3225

No	Options Details	Correct Option
1	A	
2	B	
3	C	✓
4	D	

Q.21

Consider the following graph,



Among the following sequences:

- (I) a, b, e, g, h, f  
(II) a, b, f, e, h, g  
(III) a, b, f, h, g, e  
(IV) a, f, g, h, b, e

Which are depth first traversals of the above graph?

- (A) I, II and IV only (B) I and IV only  
(C) II, III and IV only (D) I, III and IV only

Marks 1

Question ID:  
3226

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓



**Q.25** Let G be an undirected connected graph with distinct edge weight. Let  $e_{max}$  be the edge with maximum weight and  $e_{min}$  the edge with minimum weight. Which of the following statements is false?

**Marks** 1

**Question ID:**  
3230

No	Options Details	Correct Option
1	Every minimum spanning tree of G must contain $e_{min}$	
2	If $e_{max}$ is in a minimum spanning tree, then its removal must disconnect G	
3	No minimum spanning tree contains $e_{max}$	✓
4	G has a unique minimum spanning tree	

**Q.26** Which of the following algorithms is NOT a divide & conquer algorithm by nature?

**Marks** 1

**Question ID:**  
3231

No	Options Details	Correct Option
1	Euclidean algorithm to compute the greatest common divisor	
2	Heap Sort	✓
3	Cooley-Tukey fast Fourier transform	
4	Quick Sort	

**Q.27**

Floyd-Warshall algorithm utilizes \_\_\_\_\_ to solve the all-pairs shortest paths problem on a directed graph in \_\_\_\_\_ time.

- (A) Greedy algorithm,  $\theta(V^3)$
- (B) Greedy algorithm,  $\theta(V^2 \log n)$
- (C) Dynamic programming,  $\theta(V^3)$
- (D) Dynamic programming,  $\theta(V^2 \log n)$

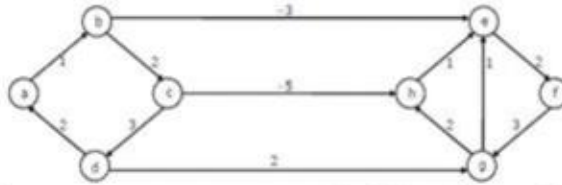
**Marks** 1

**Question ID:**  
3232

No	Options Details	Correct Option
1	A	
2	B	
3	C	✓
4	D	

Q.28

Dijkstra's single source shortest path algorithm when run from vertex 'a' in the below graph, computes the correct shortest path distance to



- (A) Only vertex a (B) Only vertices a, e, f, g, h  
 (C) Only vertices a, b, c, d (D) all the vertices

Marks 1

Question ID:  
3233

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓

Q.29

Given a NFA with N states, the maximum number of states in an equivalent minimized DFA is at least.

Marks 1

Question ID:  
3234

No	Options Details	Correct Option
1	$N^2$	
2	$2^N$	✓
3	$2N$	
4	$N!$	

Q.30

The regular expression for the language having input alphabets a and b, in which two a's do not come together:

- (A)  $(b + ab)^* + (b + ab)^*a$  (B)  $a(b - bb)^* + (b - aa)^*$   
 (C)  $(b + aa)^* - (b + ba)^*a$  (D)  $(b + bb)^* + (b + ab)^*a$

Marks 1

Question ID:  
3235

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

**Q.31**

Consider the languages  $L_1 = \phi$  and  $L_2 = \{a\}$ . Which one of the following represents  $L_1 L_2^* \cup L_1^*$

- (A)  $\{e\}$  (B)  $\phi$   
(C)  $a^*$  (D)  $\{e,a\}$

Marks 1

Question ID:  
3236

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

**Q.32**

Which of the following automata takes queue as an auxiliary storage?

Marks 1

Question ID:  
3237

No	Options Details	Correct Option
1	Finite automata	
2	Push down automata	
3	Turing machine	✓
4	2 way linearly bounded automata	

**Q.33**

CYK algorithm is named CYK because it was invented by

Marks 1

Question ID:  
3238

No	Options Details	Correct Option
1	John Cocke, TadaoKasami and Daniel H. Younger	✓
2	Jass Carry, Tom Kosami and Daniel Richy	
3	Cammy lenna, Yousaf, Kosami	
4	James Cooock, Tad Kasim and H D Young	

**Q.34** Fill in the blank in terms of  $p$ , where  $p$  is the maximum string length in  $L$ . Statement: Finite languages trivially satisfy the pumping lemma by having  $n = \text{_____}$

**Marks** 1

**Question ID:**  
3239

No	Options Details	Correct Option
1	$p^*1$	
2	$p+1$	✓
3	$p-1$	
4	$p(p+1)$	

**Q.35**

Consider the following statements:

1. The complement of every Turing decidable language is Turing decidable
2. There exists some language which is in NP but is not Turing decidable
3. If  $L$  is a language in NP,  $L$  is Turing decidable

Which of the above statements is/are True?

(A) Only 1 and 2                      (B) Only 1 and 3  
(C) Only 2                                (D) Only 2 and 3

**Marks** 1

**Question ID:**  
3240

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

**Q.36** A top down parser generates

**Marks** 1

**Question ID:**  
3241

No	Options Details	Correct Option
1	Rightmost Derivation	
2	Right most derivation in reverse	
3	Left most derivation	✓
4	Left most derivation in reverse	

**Q.37** Dividing a project into segments and smaller units in order to simplify design and programming efforts is called?

**Marks** 1

**Question ID:**  
3242

No	Options Details	Correct Option
1	Modular approach	✓
2	Top down approach	
3	Bottom up approach	
4	Left right approach	

**Q.38** .  
What is the grammar for the below equations?

$$S \rightarrow C C$$

$$C \rightarrow c C \mid d$$

(A) LL(1)

(B) SLR(1) but not LL(1)

(C) LALR(1) but not SLR(1)

(D) LR(1) but not LALR(1)

**Marks** 1

**Question ID:**  
3243

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

**Q.39** .  
Consider the following grammar :

$$S \rightarrow FR$$

$$R \rightarrow * S \mid \epsilon$$

$$F \rightarrow id$$

In the predictive parser table, M, of the grammar the entries M [S, id] and M [R, \$] respectively.

(A) {S→FR} and {R→ε}

(B) {S→FR} and {}

(C) {S→FR} and {R →\* S}

(D) {F →id} and {R→ε}

**Marks** 1

**Question ID:**  
3244

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	



**Q.40** Output file of the Lex is \_\_\_\_ is the input file is Sam.

**Marks** 1

**Question ID:**  
3245

No	Options Details	Correct Option
1	sam	
2	sam.yy.c	✓
3	sam.lex	
4	sam.obj	

**Q.41**

Consider the grammar

$S \rightarrow ABSc \mid Abc$

$BA \rightarrow AB$

$Bb \rightarrow bb$

$Ab \rightarrow ab$

$Aa \rightarrow aa$

Which of the following sentence can be derived by this grammar?

(A) abc

(B) aab

(C) abcc

(D) abbc

**Marks** 1

**Question ID:**  
3246

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

**Q.42** Which of the following is an important component of semantic analysis?

**Marks** 1

**Question ID:**  
3247

No	Options Details	Correct Option
1	Symbol table	
2	Type checking	✓
3	Lex	
4	Yacc	

**Q.43**

Consider the methods used by processes P1 and P2 for accessing their critical sections whenever needed, as given below. The initial values of shared boolean variables S1 and S2 are randomly assigned.

Method Used by P1

while (S1 == S2);

Critical Section

S1 = S2;

Method Used by P2

while (S1 != S2);

Critical Section

S2 = not (S1);

Which one of the following statements describes the properties achieved?

- (A) Mutual exclusion but not progress
- (B) Progress but not mutual exclusion
- (C) Neither mutual exclusion nor progress
- (D) Both mutual exclusion and progress

**Marks** 1

**Question ID:**  
3248

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

**Q.44**

Which of the following statements are true?

I. Shortest remaining time first scheduling may cause starvation

II. Preemptive scheduling may cause starvation

III. Round robin is better than FCFS in terms of response time

- (A) I only
- (B) I and III only
- (C) II and III only
- (D) I, II and III

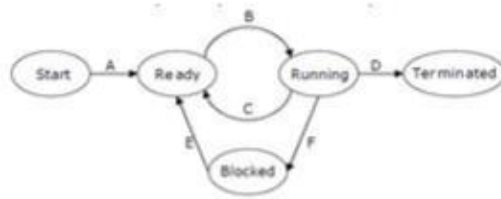
**Marks** 1

**Question ID:**  
3249

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓

**Q.45**

In the following process state transition diagram for a uniprocessor system, assume that there are always some processes in the ready state: Now consider the following statements :



- I. If a process makes a transition D, it would result in another process making transition A immediately.
- II. A process P2 in blocked state can make transition E while another process P1 is in running state
- III. The OS uses preemptive scheduling.
- IV. The OS uses non-preemptive scheduling.

Which of the above statements are TRUE?

- (A) I and II
- (B) I and III
- (C) II and III
- (D) II and IV

**Marks** 1

**Question ID:**  
3250

No	Options Details	Correct Option
1	A	
2	B	
3	C	✓
4	D	

**Q.46** Which of the following is NOT true of deadlock prevention and deadlock avoidance schemes?

**Marks** 1

**Question ID:**  
3251

No	Options Details	Correct Option
1	In deadlock prevention, the request for resources is always granted if the resulting state is safe	✓
2	In deadlock avoidance, the request for resources is always granted if the result state is safe	
3	Deadlock avoidance is less restrictive than deadlock prevention	
4	Deadlock avoidance requires knowledge of resource requirements a priori	

**Q.47** A computer system supports 32-bit virtual addresses as well as 32-bit physical addresses. Since the virtual address space is of the same size as the physical address space, the operating system designers decide to get rid of the virtual memory entirely. Which one of the following is true?

**Marks** 1

**Question ID:**  
3252

No	Options Details	Correct Option
1	Efficient implementation of multi-user support is no longer possible	
2	The processor cache organization can be made more efficient now	
3	Hardware support for memory management is no longer needed	✓
4	CPU scheduling can be made more efficient now	

**Q.48** What is the swap space in the disk used for?

**Marks** 1

**Question ID:**  
3253

No	Options Details	Correct Option
1	Saving temporary html pages	
2	Saving process data	✓
3	Storing the super-block	
4	Storing device drivers	

**Q.49** Which one of the following is an advantage of multiprocessor systems?

**Marks** 1

**Question ID:**  
3254

No	Options Details	Correct Option
1	Increased modularity	
2	Increased reliability	✓
3	Increased security	
4	Decreased modularity	

**Q.50** Which of the following indicates the maximum number of entities that can be involved in a relationship?

**Marks** 1

**Question ID:**  
3255

No	Options Details	Correct Option
1	Minimum cardinality	
2	Maximum cardinality	✓
3	ERD	
4	Greater Entity Count (GEC)	

**Q.51** The JOIN operation which uses any of the comparison operator is classified as

**Marks** 1

**Question ID:**  
3256

No	Options Details	Correct Option
1	Theta Join	✓
2	PI-Join	
3	Sigma Join	
4	Chi-Join	

**Q.52** Which of the following foreign key constraint specifies that the deletion fails with an error?

**Marks** 1

**Question ID:**  
3257

No	Options Details	Correct Option
1	NO ACTION	✓
2	CASCADE	
3	SET NULL	
4	NOT NULL	

**Q.53** Why use Full Join in sql?

**Marks** 1

**Question ID:**  
3258

No	Options Details	Correct Option
1	Return rows when there is atleast one match in both tables	
2	Return all rows from the left table, even if there are no matches in the right table	
3	Return all rows from the right table, even if there are no matches in the left table	
4	Return rows when there is a match in one of the tables	✓

**Q.54**

Relation R has eight attributes ABCDEFGH. Fields of R contain only atomic values.  $F = \{CH \rightarrow G, A \rightarrow BC, B \rightarrow CFH, E \rightarrow A, F \rightarrow EG\}$  is a set of functional dependencies (FDs) so that  $F^+$  is exactly the set of FDs that hold for R. How many candidate keys does the relation R have?

- (A) 3 (B) 4  
(C) 5 (D) 6

**Marks** 1

**Question ID:**  
3259

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

**Q.55** Non-leaf nodes are also called as

**Marks** 1

**Question ID:**  
3260

No	Options Details	Correct Option
1	Internal nodes	✓
2	External nodes	
3	Middle nodes	
4	Primary nodes	

**Q.56**

Consider the following log sequence of two transactions on a bank account, with initial balance 12000, that transfer 2000 to a mortgage payment and then apply a 5% interest.

1. T1 start
2. T1 B old=1200 new=10000
3. T1 M old=0 new=2000
4. T1 commit
5. T2 start
6. T2 B old=10000 new=10500
7. T2 commit

Suppose the database system crashes just before log record 7 is written. When the system is restarted, which one statement is true of the recovery procedure?

- (A) We must redo log record 6 to set B to 10500
- (B) We must undo log record 6 to set B to 10000 and then redo log records 2 and 3
- (C) We need not redo log records 2 and 3 because transaction T1 has committed
- (D) We can apply redo and undo operations in arbitrary order because they are idempotent

**Marks** 1

**Question ID:**  
3261

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

**Q.57**

Which of the following networks extends a private network across public networks?

**Marks** 1

**Question ID:**  
3262

No	Options Details	Correct Option
1	Local area network	
2	Virtual private network	✓
3	Enterprise private network	
4	Storage area network	

**Q.58**

The message 11001001 is to be transmitted using the CRC polynomial  $x^3 + 1$  to protect it from errors. The message that should be transmitted is

- (A) 11001001000                      (B) 11001001011  
(C) 11001010                            (D) 110010010011

**Marks**        1

**Question ID:**  
3263

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

**Q.59**

Consider the following statements about the routing protocols, Routing Information Protocol (RIP) and Open Shortest Path First (OSPF) in an IPv4 network

- P. RIP uses distance vector routing  
Q. RIP packets are sent using UDP  
R. OSPF packets are sent using TCP  
S. OSPF operation is based on link-state routing

Which of the statement above are correct?

- (A) P and S only                      (B) P, Q and R only  
(C) P, Q and S only                    (D) Q, R and S only

**Marks**        1

**Question ID:**  
3264

No	Options Details	Correct Option
1	A	
2	B	
3	C	✓
4	D	



**Q.60** Which of the following assertions is FALSE about the Internet Protocol (IP)

**Marks** 1

**Question ID:**  
3265

No	Options Details	Correct Option
1	It is possible for a computer to have multiple IP addresses	
2	IP packets from the same source to the same destination can take different routes in the network	
3	IP ensures that a packet is forwarded if it is unable to reach its destination within a given number of hops	
4	The packet source cannot set the route of an outgoing packets; the route is determined only by the routing tables in the routers on the way	✓

**Q.61**  $5978+6134+7014 = ?$

**Marks** 1

**Question ID:**  
3266

No	Options Details	Correct Option
1	16226	
2	19126	✓
3	19216	
4	19226	

**Q.62**  $9358 - 6014 + 3127 = ?$

**Marks** 1

**Question ID:**  
3267

No	Options Details	Correct Option
1	6381	
2	6471	✓
3	6561	
4	6741	

**Q.63**       $3578 + 5729 - ? 486 = 5821$

**Marks**      1

**Question ID:**  
3268

No	Options Details	Correct Option
1	1	
2	2	
3	3	✓
4	5	

**Q.64**       $360 \times 17 = ?$

**Marks**      1

**Question ID:**  
3269

No	Options Details	Correct Option
1	5120	
2	5320	
3	6120	✓
4	6130	

**Q.65**

The Value of  $112 \times 5^4$  is:

a) 6700      b) 70000      c) 76500      d) 77200

**Marks**      1

**Question ID:**  
3270

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

**Q.66**

The average of the first five multiples of 3 is

**Marks** 1**Question ID:**  
3271

No	Options Details	Correct Option
1	3	
2	9	✓
3	12	
4	15	

**Q.67**

Find the average of all the numbers between 6 and 34 which are divisible by 5

**Marks** 1**Question ID:**  
3272

No	Options Details	Correct Option
1	18	
2	20	
3	24	✓
4	30	

**Q.68**

A train 360m long is running with a speed of 45km/h. In what time will it pass a bridge 140m long;

**Marks** 1**Question ID:**  
3273

No	Options Details	Correct Option
1	50 Seconds	
2	40 seconds	✓
3	30 seconds	
4	35 seconds	

**Q.69** A man borrowed Rs.300 with a simple interest rate of 6% Per annum. At the end of 6 years he paid back an amount of

**Marks** 1

**Question ID:**  
3274

No	Options Details	Correct Option
1	Rs. 444	
2	Rs440	
3	Rs 408	✓
4	Rs445	

**Q.70** A sum of Rs. 200 is deposited in a post office at the rate of 5.5% simple interest, per annum. What will be the total amount of the 2 years?

**Marks** 1

**Question ID:**  
3275

No	Options Details	Correct Option
1	220	
2	225	
3	222	✓
4	229	

**Q.71**  $6 \times 66 \times 666 = ?$

**Marks** 1

**Question ID:**  
3276

No	Options Details	Correct Option
1	263376	
2	263763	
3	263736	✓
4	267336	

**Q.72**       $60840 \div 234 = ?$

**Marks**      1

**Question ID:**  
3277

No	Options Details	Correct Option
1	225	
2	255	
3	260	✓
4	310	

**Q.73**       $1256 \times 3892 = ?$

**Marks**      1

**Question ID:**  
3278

No	Options Details	Correct Option
1	4883852	
2	4888532	
3	4888352	✓
4	4883582	

**Q.74**       $2056 \times 987 = ?$

**Marks**      1

**Question ID:**  
3279

No	Options Details	Correct Option
1	1936372	
2	2029272	✓
3	1896172	
4	1923472	

**Q.75**       $217 \times 217 + 183 \times 183 = ?$

**Marks**      1

**Question ID:**  
3280

No	Options Details	Correct Option
1	79698	
2	80578	✓
3	80698	
4	81268	

**Q.76** Which one of the following numbers is divisible by 3?

**Marks** 1

**Question ID:**  
3281

No	Options Details	Correct Option
1	4006020	✓
2	2345678	
3	2876423	
4	9566003	

**Q.77** Which one of the following numbers is divisible by 15?

**Marks** 1

**Question ID:**  
3282

No	Options Details	Correct Option
1	17325	✓
2	23755	
3	29515	
4	30560	

**Q.78** The Present age of Mr. Sanyal is three times the age of his son. Six years of hence the ratio of their ages will be 5: 2, respectively. What is the present age of Mr. Sanyal?

**Marks** 1

**Question ID:**  
3283

No	Options Details	Correct Option
1	48 Years	
2	50 years	
3	54 Years	✓
4	60 Years	

**Q.79** Sonal is 40 Years old and Nity is 60 Years old. How many years ago the ratio of their age was 3 : 5 ?

**Marks** 1

**Question ID:**  
3284

No	Options Details	Correct Option
1	5 Years	
2	10 Years	✓
3	20 Years	
4	37 Years	

**Q.80** 64% of a number is 2592. what is 88% of that number?

**Marks** 1

**Question ID:**  
3285

No	Options Details	Correct Option
1	3202	
2	3458	
3	3564	✓
4	3826	

**Q.81** First Woman to act as match referee for men international cricket is

**Marks** 1

**Question ID:**  
3286

No	Options Details	Correct Option
1	G. Sarva Lakshmi	✓
2	Mithali Raj	
3	K. Rajeswari	
4	Avanthika Pandey	

**Q.82** The Director General of ICRISAT is

**Marks** 1

**Question ID:**  
3287

No	Options Details	Correct Option
1	Sanjay Kothari	
2	Aravind Goswamy	✓
3	Jacqueline Hughes	
4	Thomas Hencock	

**Q.83** e-Gram Swaraj Portal was launched by Prime Minister on

**Marks** 1

**Question ID:**  
3288

No	Options Details	Correct Option
1	March 16, 2020	
2	April 24, 2020	✓
3	May 20, 2020	
4	June 12, 2020	

**Q.84** Which of the following state handed over power supply network to private sector?

**Marks** 1

**Question ID:**  
3289

No	Options Details	Correct Option
1	Gujarat	
2	West Bengal	
3	Orissa	✓
4	Kerala	



**Q.85** Where is India's 'Silicon Valley' located?

**Marks** 1

**Question ID:**  
3290

No	Options Details	Correct Option
1	Bengaluru	✓
2	Pune	
3	Hyderabad	
4	Baroda	

**Q.86** What is the maximum time schedule extended for abortions?

**Marks** 1

**Question ID:**  
3291

No	Options Details	Correct Option
1	10 weeks	
2	16 weeks	
3	20 weeks	
4	24 weeks	✓

**Q.87** Who is the Chairman of NABARD?

**Marks** 1

**Question ID:**  
3292

No	Options Details	Correct Option
1	C. Govindarajulu	✓
2	Dr. G.R. Chintala	
3	C. Rangarajan	
4	Hari Vamsh Narayanan	

**Q.88** World Asthma Day is celebrated on

**Marks** 1

**Question ID:**  
3293

No	Options Details	Correct Option
1	April 08	
2	First Tuesday in May	✓
3	Last Tuesday in April	
4	July 02	

**Q.89** Bharat Ratna (2019) is awarded posthumously to

**Marks** 1

**Question ID:**  
3294

No	Options Details	Correct Option
1	Morarji Desai	
2	P.V. Narasimha Rao	
3	Bhupen Hazarika	✓
4	N.T. Rama Rao	

**Q.90** "New Dimensions of India's Foreign Policy" was written by

**Marks** 1

**Question ID:**  
3295

No	Options Details	Correct Option
1	A.B. Vajpayee	✓
2	V.V. Giri	
3	K.R. Narayanan	
4	Rajiv Gandhi	

**Q.91** In spite of our best efforts, we failed to ——— any new facts from him. Pick out the most appropriate word from the below given words to fill in the blank to make the above sentence meaningfully complete.

**Marks** 1

**Question ID:**  
3296

No	Options Details	Correct Option
1	elicit	✓
2	eject	
3	evoke	
4	enlist	

**Q.92** Idleness and luxury ——— poverty and want. Choose the appropriate phrase.

**Marks** 1

**Question ID:**  
3297

No	Options Details	Correct Option
1	bring out	
2	bring in	
3	bring on	
4	bring forth	✓

**Q.93**

Find out which part of the sentence has an error.

He knows very well / what is expected from him / but he is not able to fulfill/

**A**

**B**

**C**

all the expectations

**D**

**Marks** 1

**Question ID:**  
3298

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

**Q.94** The synonym of the word, avarice, is

**Marks** 1

**Question ID:**  
3299

No	Options Details	Correct Option
1	laziness	
2	business	
3	greediness	✓
4	encourage	

**Q.95** The antonym of the word, active, is

**Marks** 1

**Question ID:**  
3300

No	Options Details	Correct Option
1	zeal	
2	tender	
3	lean	
4	inert	✓

**Q.96** The meaning of the idiom, Hobson's choice, means

**Marks** 1

**Question ID:**  
3301

No	Options Details	Correct Option
1	feeling insecurity	
2	Accept or leave the offer	✓
3	feeling strong	
4	best choice	

Q.97

Fill in the blanks with the appropriate word

The film turned \_\_\_\_\_ to be a flop.

- (A) of (B) out  
(C) through (D) over

Marks 1

Question ID:  
3302

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

Q.98

Improve the sentence with the appropriate word

It was bitterly most cold when we were in Simla.

- (A) bitterly cold (B) bitterly more cold  
(C) bitter cold (D) bitterest cold

Marks 1

Question ID:  
3303

No	Options Details	Correct Option
1	A	
2	B	
3	C	✓
4	D	

Q.99

Fill in the blanks with the appropriate word

\_\_\_\_\_ Ganga is \_\_\_\_\_ great river.

(A) A, a

(B) The, a

(C) A, the

(D) The, the

Marks 1

Question ID:  
3304

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

Q.100

Fill in the blanks with the appropriate word

The ship \_\_\_\_\_ last week.

(A) reach

(B) reaches

(C) has reached

(D) reached

Marks 1

Question ID:  
3305

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓