





### Nitish Kumar Gupta

Course: GATE Computer Science Engineering(CS)

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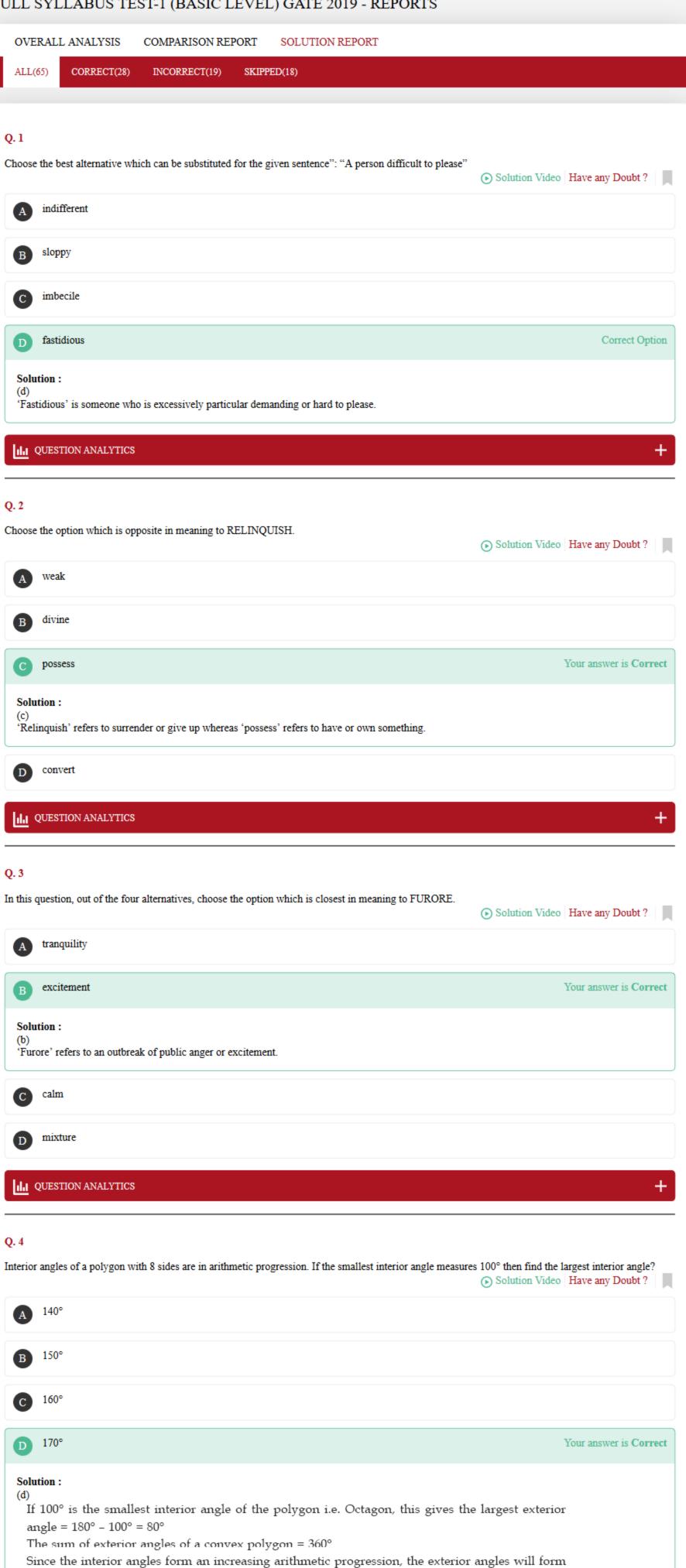
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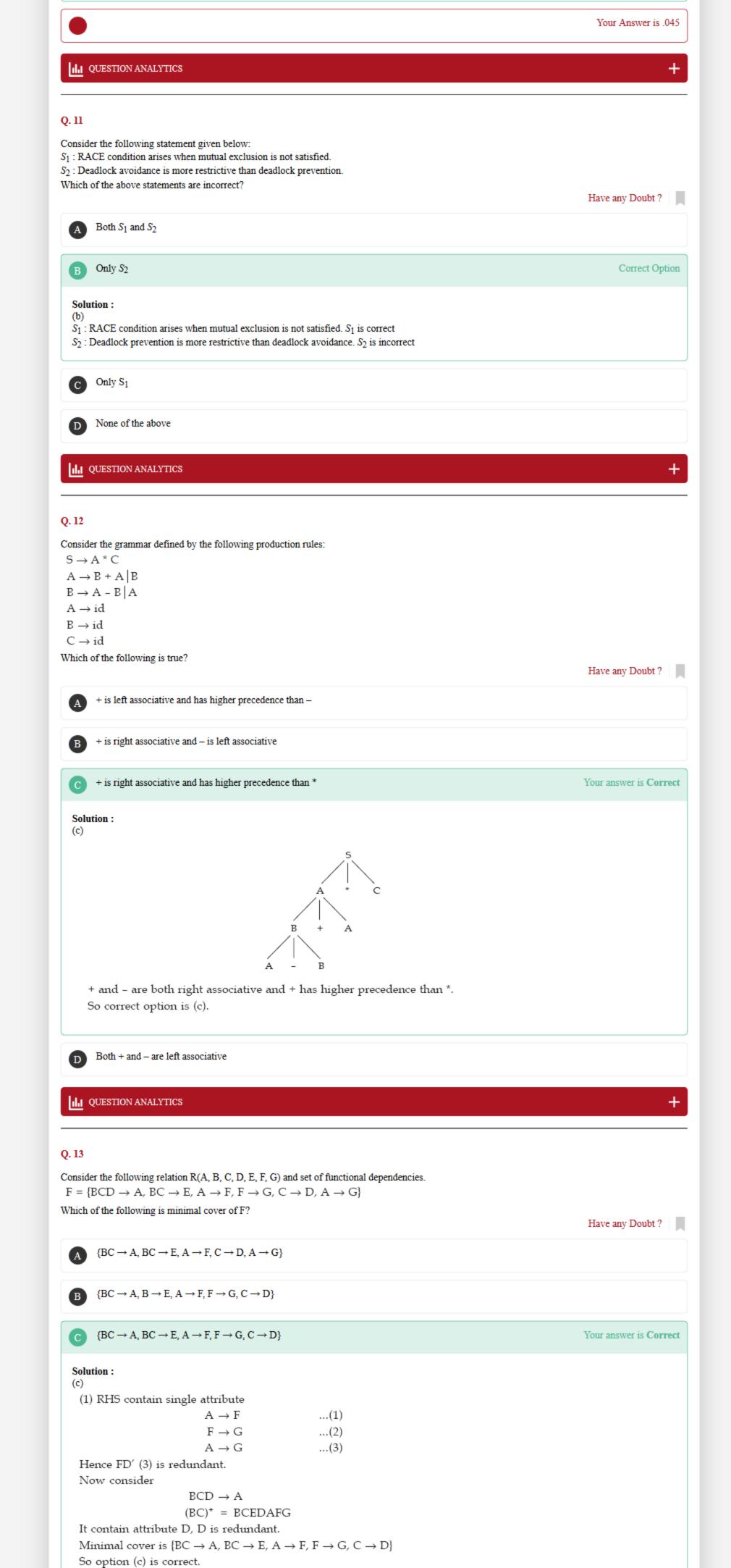
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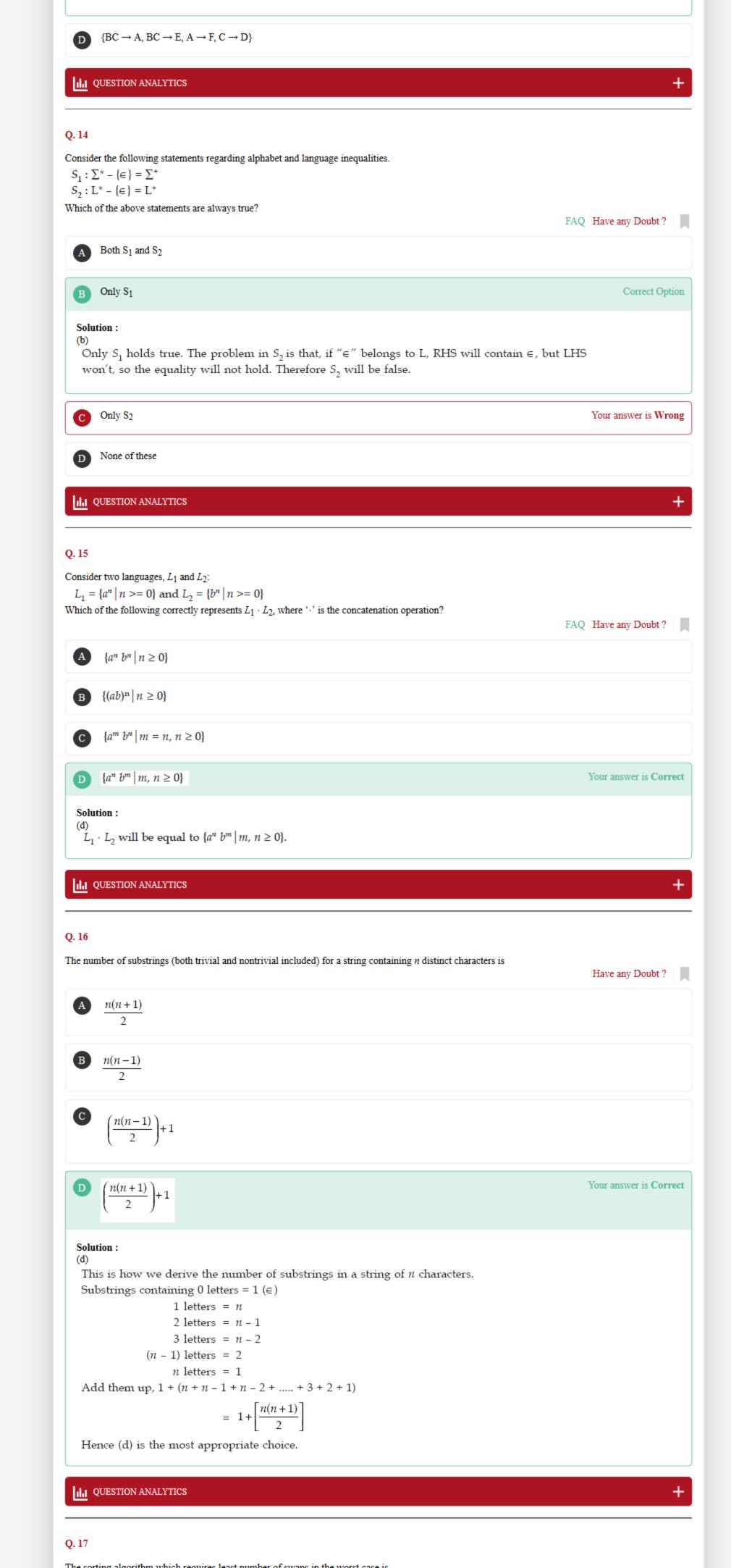
### FULL SYLLABUS TEST-1 (BASIC LEVEL) GATE 2019 - REPORTS

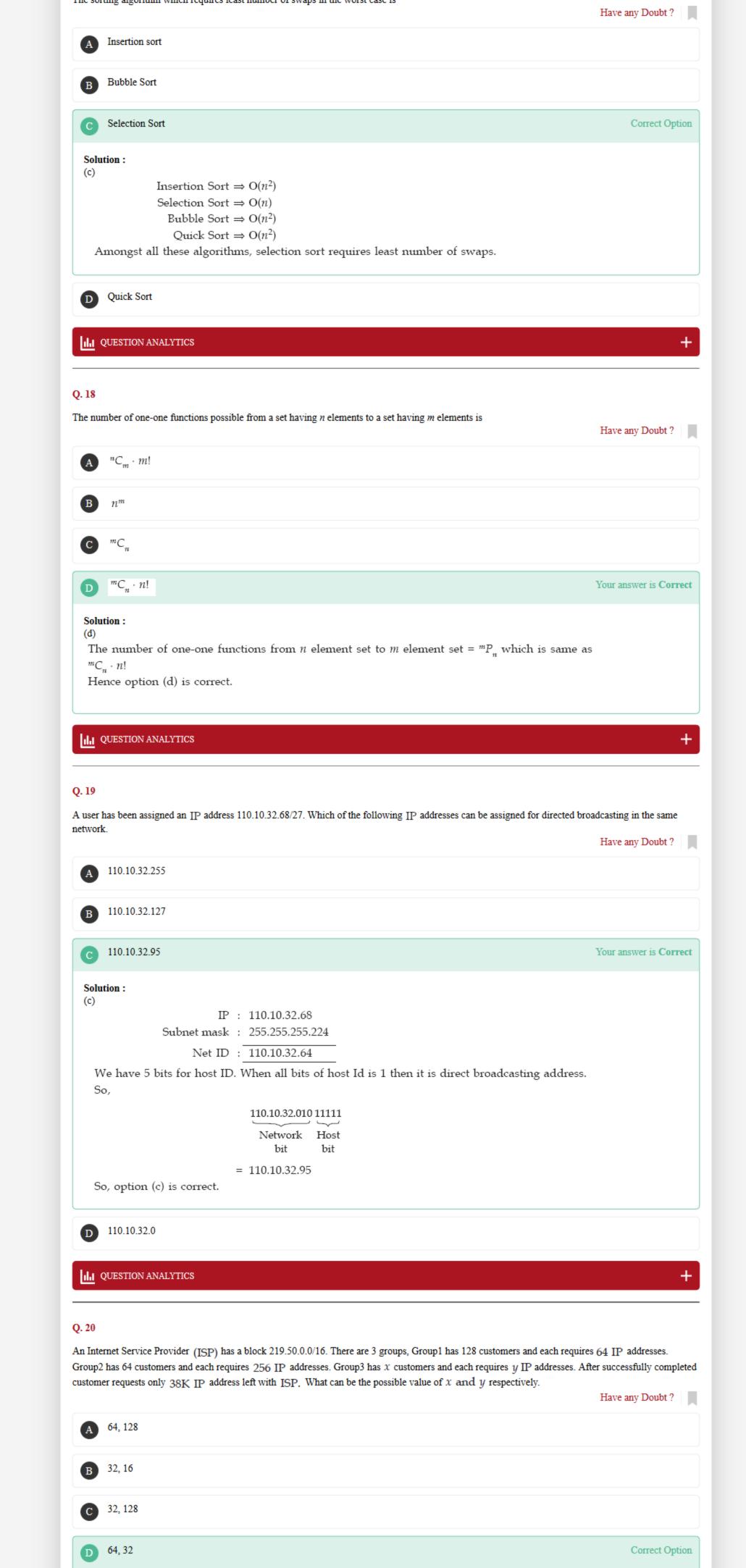


a decreasing arithmetic progression, let us say with common difference 'd 360 = 80 + (80 + d) + (80 + 2d) .....8 terms =  $\frac{8}{2} [2 \times 80 + (8 - 1)d] = 360$  which gives d = -10Using d = -10, we get the smallest exterior angle =  $80^{\circ} + (8 - 1) \times (-10^{\circ}) = 10^{\circ}$  leading to the largest interior angle =  $180^{\circ}$  –  $10^{\circ}$  =  $170^{\circ}$ Note: formula used for sum of terms of an AP is given by  $S_n = \frac{n}{2} [2a + (n-1)d]$  where 'a' is the first term and 'd' is the common difference. Alternatively, Sum of all the interior angles of a polygon =  $(n - 2)180^{\circ}$  $a + (a + d) + \dots 8 \text{ terms} = (8 - 2)180^{\circ}$  $\frac{8}{2}(100 \times 2 + 7d) = 1080$ d = 10 $\Rightarrow$ Largest angle = a + 7d $= 100 + 7(10) = 170^{\circ}$ **ILL** QUESTION ANALYTICS Q. 5 Triangles ABC and CDE have a common vertex C with side AB of triangle ABC being parallel to side DE of triangle CDE. If length of side AB = 4 cm and length of side DE = 10 cm and perpendicular distance between sides AB and DE is 9.8 cm, then the sum of areas of triangle ABC and triangle CDE is cm<sup>2</sup>. Solution Video Have any Doubt? 40.6 (40 - 41) Correct Option Solution: 40.6 (40 - 41) A 4 cm B  $AB \mid \mid DE$ Given  $\angle B = \angle D$ (Alternate angles)  $\angle A = \angle E$ (Alternate angles) and ΔABC ~ ΔEDC (AAA similarity) ÷.  $\frac{h_1}{h_2} = \frac{AB}{DE} = \frac{4}{10} = \frac{2}{5}$  $\Rightarrow$  $h_1 + h_2 = 9.8 \text{ cm}$  (given)  $h_1 = 2.8 \text{ cm}$  and  $h_2 = 7 \text{ cm}$ and *:*. Area of  $\triangle ABC = \frac{1}{2} \times 4 \times 2.8 = 5.6 \text{ cm}^2$ Area of  $\triangle EDC = \frac{1}{2} \times 10 \times 7 = 35 \text{ cm}^2$ ∴ Sum of areas of ΔABC and ΔEDC = 40.6 cm<sup>2</sup> ILI QUESTION ANALYTICS Q. 6 Find the pair of letters which will come in blank spaces marked as '?'. VWXYEDCBRST?? Solution Video Have any Doubt? GΙ Your answer is Correct B UI Solution: A careful look at the alphabets in the given series shows a pattern: VWXY - EDCB RST? etc  $V\leftrightarrow E;~W\leftrightarrow D;~X\leftrightarrow C;~Y\leftrightarrow B;~i.e.~5^{th}~from~end~corresponds~to~5^{th}~from~beginning~etc.~It~is~a$ cluster of 4 consecutive letters which is taken at a time. Therefore, the next 4 letters will be RSTU-IHGF etc. Hence the last 2 letters will be U and I i.e. option (b). C IU D IG III QUESTION ANALYTICS Q. 7 Two solutions of alcohol A and B were mixed to obtain 20 litres of new solution C. Before they were mixed, the first solution A contained 1.6 litres of alcohol while the second solution B contained 1.2 litres of alcohol. Before mixing if the percentage of alcohol in the first solution A was twice that in the second B, what was the volume of the first solution A before mixing? Solution Video Have any Doubt? 6 litres 6.4 litres 7.2 litres 8 litres Correct Option Solution:

Let the volume of the first solution A in the mixture be "x" litres, the volume of the second solution B in the mixture must be (20 - x). % of alcohol in A =  $\left(\frac{1.6}{x}\right) \times 100$ % of alcohol in B =  $\left(\frac{1.2}{20-x}\right) \times 100$  $\left(\frac{1.6}{x}\right) \times 100 = 2 \times \left(\frac{1.2}{(20-x)}\right) \times 100$ 16 - 0.8x = 1.2xx = 8 litres **ILL** QUESTION ANALYTICS Q. 8 Santosh's car gives 5 km more per litre of diesel when driven on the highway in comparison to city drive. On a recent trip, Santosh drove 30 km on the highway and 130 km in the city consuming a total of 15 litres of diesel in the process. How many km/litre does Santosh's car run in the city? Solution Video Have any Doubt? 10 km/litre Correct Option Solution: (a) Let the mileage of Santosh's car be n km/litre of diesel when driven in the city and (n + 5) km/litrewhen driven on the highway. Translating the given information in to an equation, we can write  $\frac{30}{n+5} + \frac{130}{n} = 15$  $3n^2 + 17n - 130 = 0$ which gives n = 10 or n = -13/3Hence we can say that Santosh's car runs 10 km/litre in the city. 12 km/litre 13 km/litre 14 km/litre III QUESTION ANALYTICS Q. 9 Based on the given statements, select the most appropriate option to solve the question. Sheetal wants to sell her bicycle at either a profit of K% or a loss of K%. What is the value of K? Statement 1: Difference between the amount Sheetal gets in the 2 cases is ₹2560. Statement 2: If Sheetal's profit is Rs K, her profit in percentage is 7.5%. Solution Video Have any Doubt? Statement 1 alone is sufficient, but statement 2 alone is NOT sufficient. Statement 2 alone is sufficient, but statement 1 alone is NOT sufficient. Both statements together are sufficient, but neither statement alone is sufficient. Correct Option Solution: Let us assume  $k = \frac{K}{100}$  and the cost price = C Based on S1, we can write  $C \times \left(1 + \frac{K}{100}\right) - C \times \left(1 - \frac{K}{100}\right) = 2560$ i.e.  $\frac{2CK}{100} = 2560$  or Ck = 1280 which does not give the value of k or K. Hence Statement 1 is NOT sufficient. Based on S2,  $C \times 0.075 = K$  which gives C = 40K/3 = 4000k/3 which will NOT give the value of kWhen we combine the information given in both the statements, we will be able to find C as well as k or K. Hence option (c) is the correct option. Statement 1 and 2 together are NOT sufficient. III QUESTION ANALYTICS Q. 10 We are given a square of side 22 cm. A circle of maximum possible diameter is inscribed in this square. If a point is chosen at random inside the square, then the probability that it will lie inside the circle is \_ Solution Video Have any Doubt? 0.785 (0.784 - 0.786) Correct Option Solution: 0.785 (0.784 - 0.786) Area of the circle Area of the square Required probability = Biggest possible circle that can be inscribed in the given square would be touching all the four sides of the square internally implying that the diameter of this circle = side of the square = 22 cm Required probability =  $\frac{\text{Area of the circle}}{\text{Area of the square}} = \frac{\pi(11 \times 11)}{(22 \times 22)} = \frac{\pi}{4} = 0.785$ 







```
Solution:
  (d)
                        38 \times 2^{10} = [2^{16} - [Group1 + Group2 + Group3]]
                        38 \times 2^{10} = [2^{16} - [2^7 \times 2^6 + 2^6 \times 2^8 + 2^m \times 2^n]]
                         2^x \times 2^y = 2^{16} - 2^{13} - 2^{14} - 38 \times 2^{10}
                                  = 2^{10} [2^6 - 2^3 - 2^4 - 38]
                                  = 2^{10} [64 - 8 - 16 - 38]
                                  = 2^{10} \times 2^{1}
                          2^x \times 2^y = 2^{11}
   Option (d), which 2^6 \times 2^5 = 2^{11}
 III QUESTION ANALYTICS
Q. 21
A 4-bit preset table UP counter has preset input 0111. The preset operation takes place as soon as the counter becomes maximum, i.e. 1111. The modulus
of this counter is
                                                                                                                     Have any Doubt?
  A 15
  B 5
 C 7
  D 8
                                                                                                                            Correct Option
  Solution:
                                                   CP
                                                             0111
                                                    1
                                                             1000
                                                    2
                                                             1001
                                                    3
                                                             1010
                                                    4
                                                             1011
                                                    5
                                                             1100
                                                    6
                                                             1101
                                                    7
                                                             1110
                                                             1111
                                                             0111
      Preset \rightarrow 8 clock pulses, it is repeating.
      So mod 8.
  ILI QUESTION ANALYTICS
Q. 22
Assume the base register contains 32856. The program counter is currently at 25687 memory location. What is the branch address if address field of jump
instruction contain -30 in address field and the instruction is designed with the base register addressing modes?
                                                                                                                     Have any Doubt?
       32826
                                                                                                                    Your answer is Correct
  Solution:
                                              PC: 32856
                                                        -30
                                                  Base Register AM
       Effective Address [EA] = [Base register] + Relative value
                                   = 32856 + (-30) = 32826
                               PC = 32826
    Branch address will be 32826.
 B 25657
       32886
       25717
  ILI QUESTION ANALYTICS
Q. 23
The incorrect match (when n > 1) is
                                                                                                                     Have any Doubt?
        SISD model of computer: 1 control unit and 1 ALU
       SIMD model of computer : 1 control unit and n ALUs
       MISD model of computer : n control units and n ALUs
                                                                                                                     Your answer is Wrong
  MIMD model of computer: n control units and 1 ALU
                                                                                                                            Correct Option
  Solution:
```

MIMD model has n-control units and since in multiprocessing, it requires n ALU units also

ILI QUESTION ANALYTICS Q. 24 The speed gained by an 'n' segment pipeline executing 'm' tasks is Have any Doubt? (n + m - 1)Your answer is Correct mn(n + m - 1)Solution: (b) Tasks  $\rightarrow m$ Stages in pipeline = nWithout pipelining number of cycles required to execute m tasks = n m. (∵ each task required n cycle) When we pipeline the tasks for  $I^{\rm st}$  task it requires n cycles and for next (m-1) 1 cycle for each (m-1) tasks. So total cycles required with pipelining  $= n + (m-1) \times 1$ = (n + m - 1)Number of cycles without pipelining .. Speed gained by pipeline = Number of cycles with pipeline  $= \ \frac{nm}{(n+m-1)}$ C n+m(mn-1)n + m(mn+1)**III** QUESTION ANALYTICS Q. 25 The output waveforms of a counter circuit shown below: The counter is Have any Doubt? Decade counter As asynchronous counter Your answer is Wrong Johnson counter Ring counter Correct Option Solution: The waveform is of the ring counter because in one clock period only one flip-flop output active and the same is repeating. III QUESTION ANALYTICS Q. 26 Consider a system which has 28 instances of a resource P such that 4 + n processes share them, 4 process request 5 instances of 'P'. If n processes request 5 instances of same resources what is the maximum value of n such that system is in safe state \_\_\_ Have any Doubt? Correct Option Solution:  $28 > 4 \times (5 - 1) + (5 - 1) \times n$ 28 > 20 - 4 + 5n - n28 > 16 + 4n12 > 4n3 > nMaximum value of n is 3 - 1 = 2Your Answer is 20

### Q. 27

Consider the following set of processes that need to be scheduled on a single CPU operating system uses preemptive shortest remaining time first

(Ties are broken on first come first serve basis)

Process	Arrival Time	Execution Time
$P_0$	5	6
$P_1$	2	3
$P_2$	1	4
$P_3$	6	2
$P_4$	8	5

(All time in milliseconds)

The average waiting time of these processes are \_\_\_\_\_ (in milliseconds). (Upto 1 decimal place)

Have any Doubt?

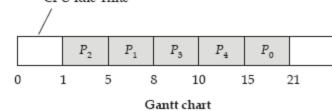
Correct Option



Solution: 3.4 (3.4 - 3.4)

3.4 (3.4 - 3.4)

CPU Idle Time



Waiting Time = Turn Around Time - Execution (burst) time

Average Waiting Time = 
$$\frac{\sum_{i=0}^{n} \text{Waiting Time of } P_i}{\text{Total number of process}}$$
$$= \frac{10 + 3 + 0 + 2 + 2}{5} = \frac{17}{5} = 3.4 \text{ ms}$$



Your Answer is 2.6

III QUESTION ANALYTICS

## Q. 28

Let A be matrix such that,  $A = \begin{bmatrix} 2 \\ -4 \\ 7 \end{bmatrix} \begin{bmatrix} 1 & 9 & 5 \end{bmatrix}$ .

Let x, y and z be the eigen value of A. Then the product xyz is equal to \_\_\_\_\_.

Have any Doubt?

Your answer is Correct0



Solution: 0

Product of eigen values of a matrix A = Determinant of A

Upon evaluating, we see that |A| = 0

$$\Rightarrow x \cdot y \cdot z = |A| = 0$$

Hence 0 is the answer.

III QUESTION ANALYTICS

1536

Q. 29

Assume that the time complexity of the most efficient algorithm to find the median in a list of n characters is  $\theta(n \log n)$ . It is experimentally found that, when this algorithm is made to run on a list of 16 elements, it takes 256 units of time respectively. Then the time taken by this algorithm when the input list contains 64 elements is \_\_\_\_\_\_.

Have any Doubt?

Your answer is Correct



1536

Solution: 1536

 $T(n) = \theta(n \log n) = c.n\log n$ Given, Now, T(16) = 256 unitsTherefore,  $c.16.\log(16) = 256$ • c = 4Now we have to find T(64).

 $T(64) = 64.c.\log(64)$ 

Substitute the value of c and solve the equation to get

T(64) = 1536 units

### **ILI** QUESTION ANALYTICS

Q. 30

Consider the following statements regarding degree of the vertex in graph G.

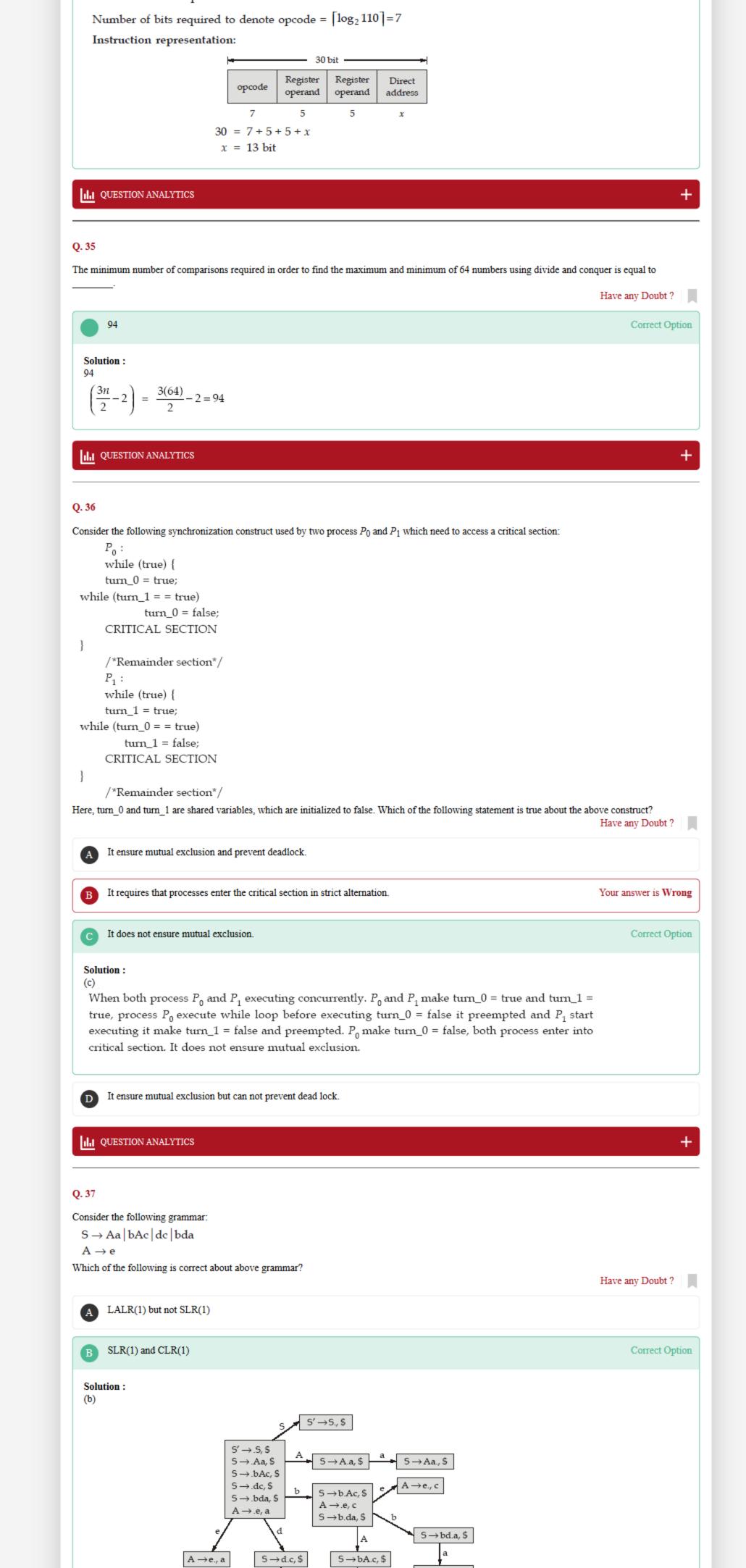
- S<sub>1</sub>: The number of odd degree vertices is always even in every graph G.
- $S_2$ : If there are exactly 2 vertices x and y of odd degree in a graph G, then there must be a path between x and y.
- $S_3$ : Every planar graph can be coloured with at most 4 colours.

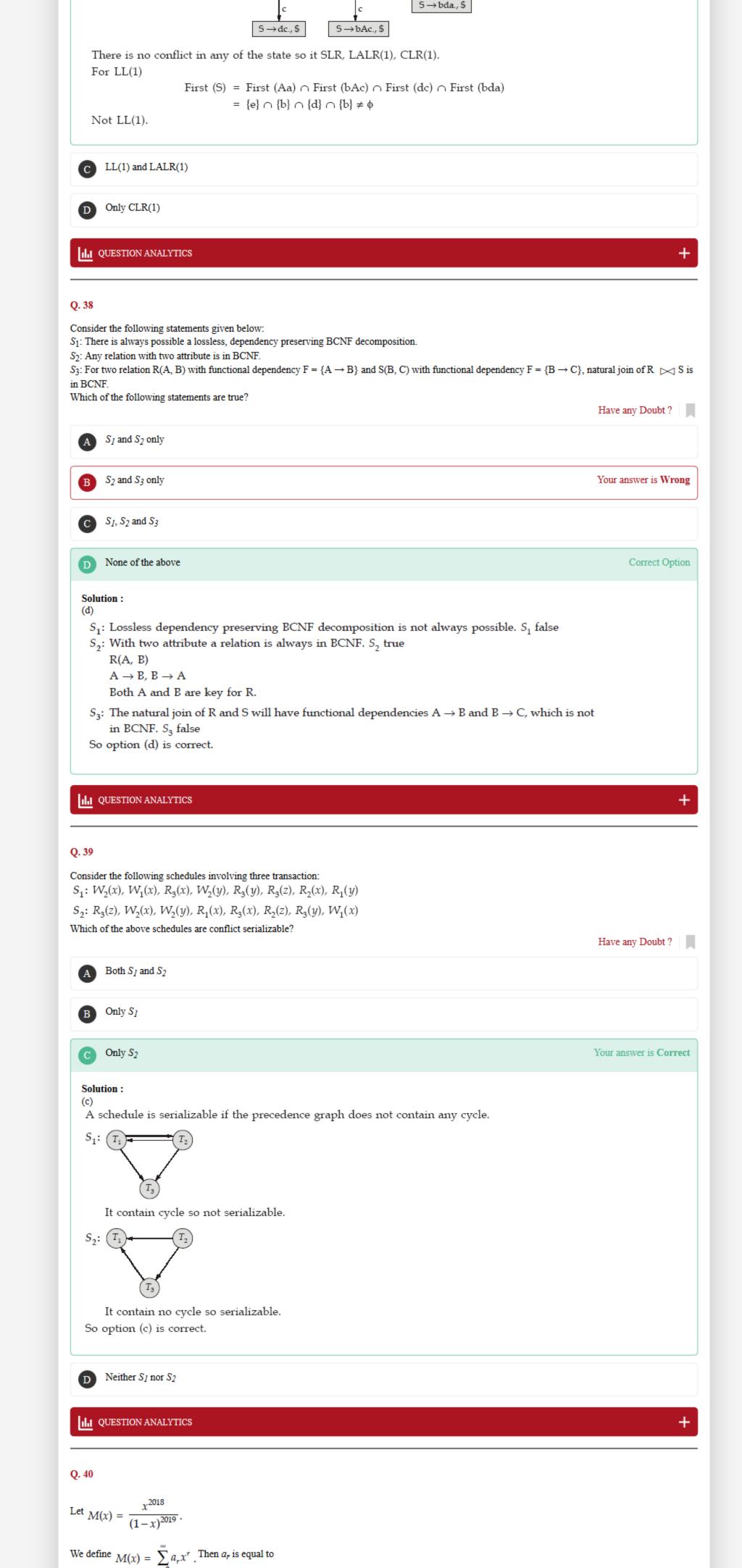
The number of true statements are \_\_\_\_\_.

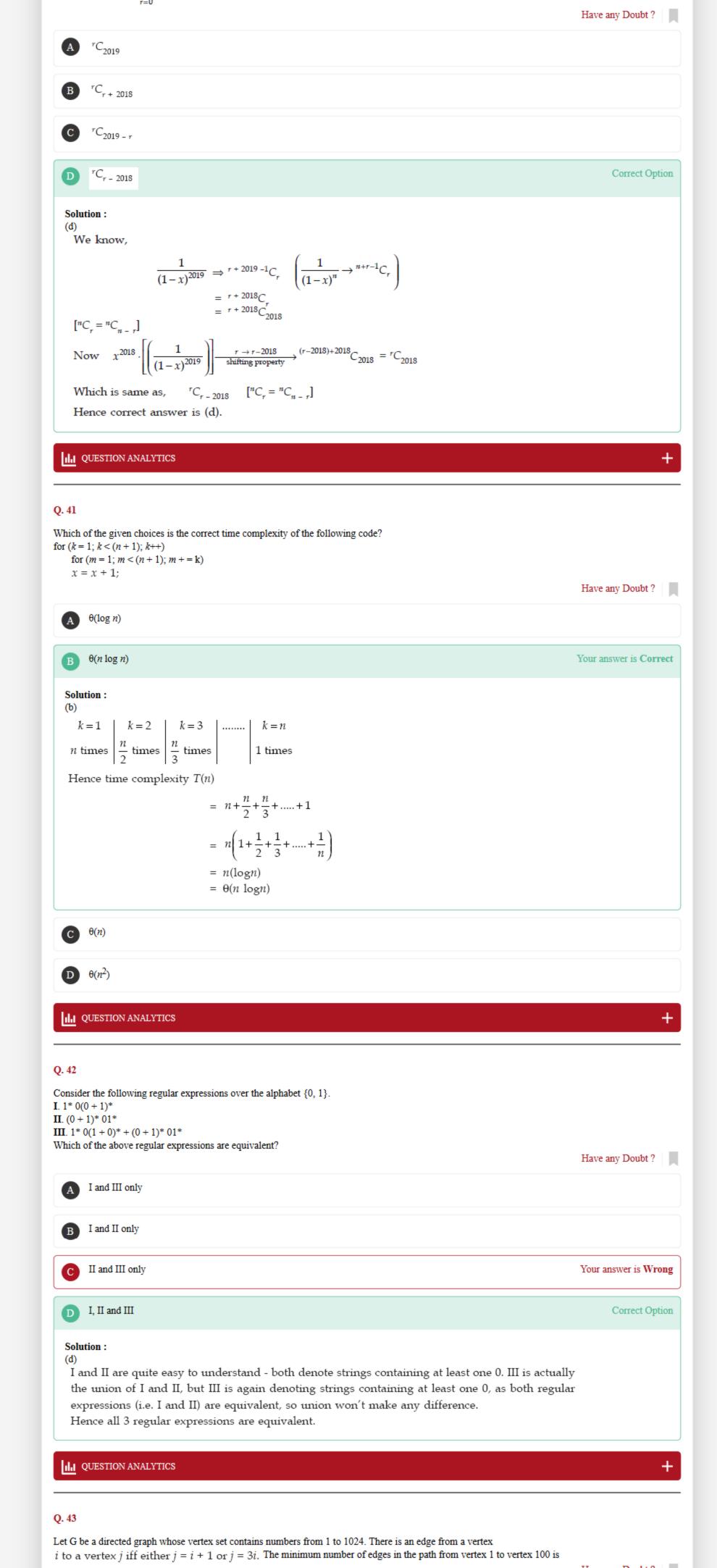
Have any Doubt?

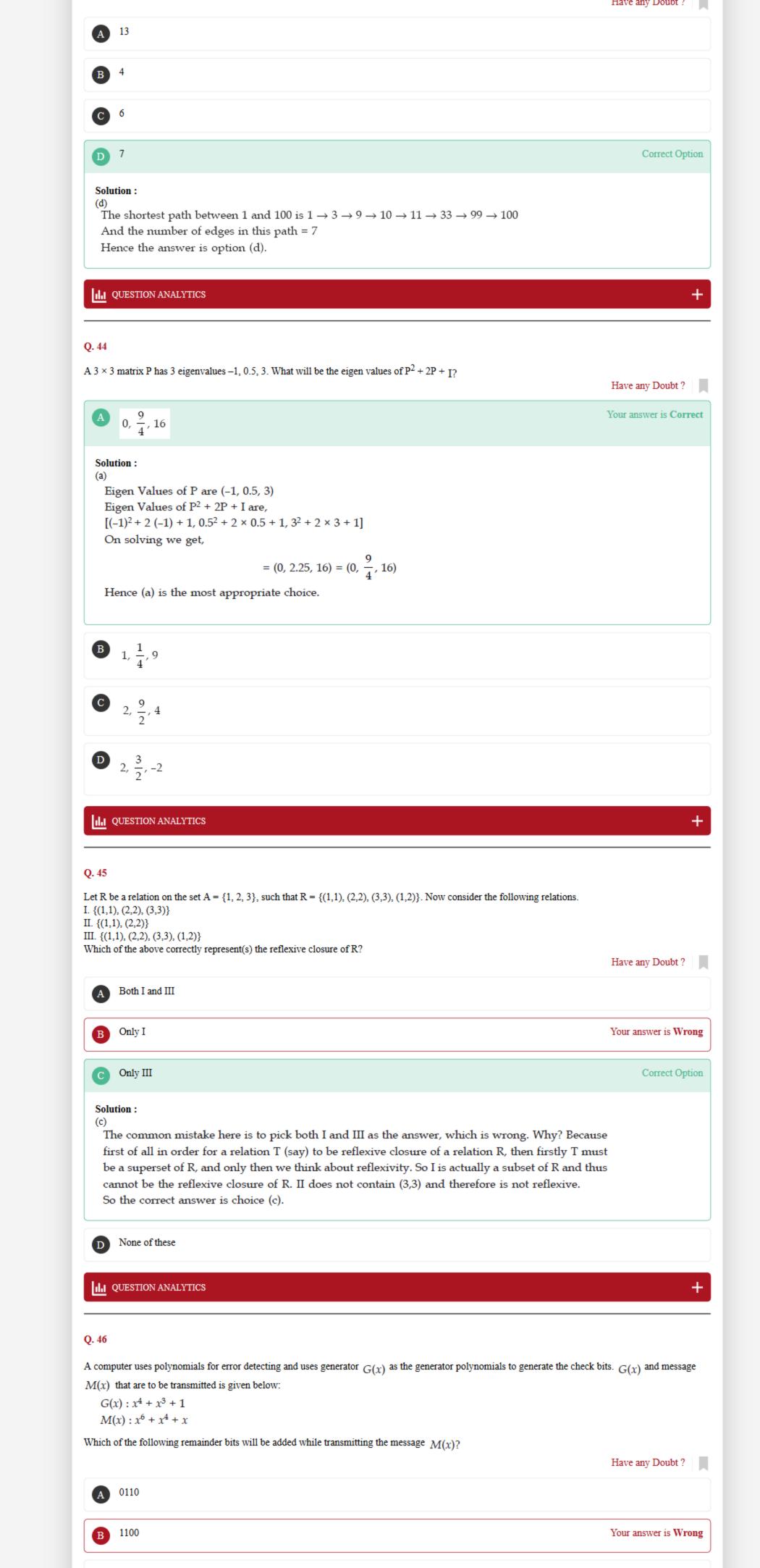
# Solution: 3 $S_1$ is quite popular and easy to understand. $S_2$ "If there are 2 vertices x and y of odd degree in a graph G, then there must be a path between Statement $S_2$ is also true. We can also say that if there are exactly 2 vertices x and y of odd degree in a graph G, then they have to be in the same connected component. $S_3$ is also true and is popularly known as the Four Colour Theorem. III QUESTION ANALYTICS Q. 31 Following is a table of an incomplete binary operation '\*' Y q p Zs p r ps q r W s Consider the following ways of filling the entries in place of X, Y, Z, W: **I.** $X \rightarrow s, Y \rightarrow r, Z \rightarrow p, W \rightarrow p$ **II.** $X \rightarrow s$ , $Y \rightarrow r$ , $Z \rightarrow p$ , $W \rightarrow q$ III. $X \rightarrow s$ , $Y \rightarrow r$ , $Z \rightarrow q$ , $W \rightarrow p$ IV. $X \rightarrow s$ , $Y \rightarrow r$ , $Z \rightarrow r$ , $W \rightarrow p$ The correct way of filling the entries so that in the table obtained, '\*' is found to be commutative will be (for example if II is correct then answer should be filled as 2) \_\_\_\_\_\_ Have any Doubt? Your answer is Correct4 Solution: For commutativity, the upper $\Delta$ should be same as lower $\Delta$ . So if the assignment is done as in choice IV, '\*' will retain its commutativity. III QUESTION ANALYTICS Q. 32 Consider a very large network of 10000 routers. Two host A and B are connected with this network. Host A sends data to host B and after some unit of time host A receives ICMP time exceeded message for the same data packet. The maximum number of routers that can be travelled by packets when ICMP message reaches back to host A is \_\_\_\_\_ Have any Doubt? 509 **Correct Option** Solution: ICMP message sends time exceeded message when TTL value becomes zero. TTL uses 8-bit in IP header which can travel maximum of 255 routers. Total routers travelled = 255 (packet going forward) + 254 (ICMP time exceeded message coming back) = 509Your Answer is 9999 III QUESTION ANALYTICS Q. 33 A traffic signal cycles from RED to YELLOW, YELLOW to GREEN, GREEN to RED. In each cycle RED is turned on for 100 seconds, YELLOW is turned on for 40 seconds and GREEN is turned on for 80 seconds. The traffic signal has to be implemented using Finite State Machine (FSM). The only input to this FSM is a clock of 10 second period. The minimum number flip-flops required to implement this FSM is \_ Have any Doubt? **Correct Option** 5 Solution: YELLOW $\rightarrow$ 40 seconds $\rightarrow$ 4 clock cycle GREEN $\rightarrow$ 80 seconds $\rightarrow$ 8 clock cycle RED $\rightarrow$ 100 seconds $\rightarrow$ 10 clock cycle Total number of unique = 4 + 8 + 10States required = 22 Minimum number of flip-flops required is $\lceil \log_2(22) \rceil = 5$ III QUESTION ANALYTICS Q. 34 A hypothetical processor contains 25 registers and 110 opcodes. Each instruction of the processor has four field namely opcode, 2 register operands and 1 for direct addressing. The number of bits is used to represent direct addressing field when 30 bit of word size used is Have any Doubt? 13 Your answer is Correct13 Solution: 13 Number of register = 25Number of bits required = $\lceil \log_2 25 \rceil = 5$

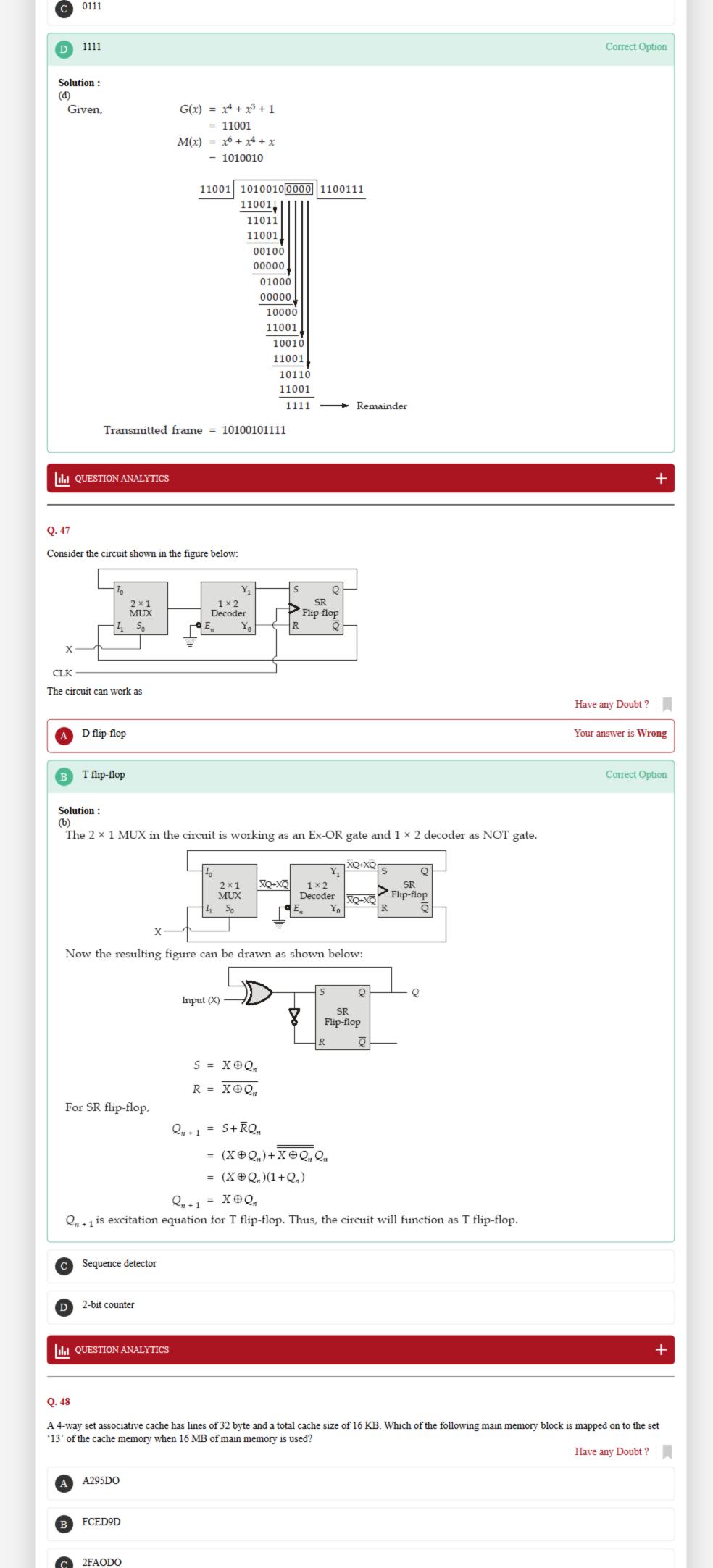
Number of opcodes = 110

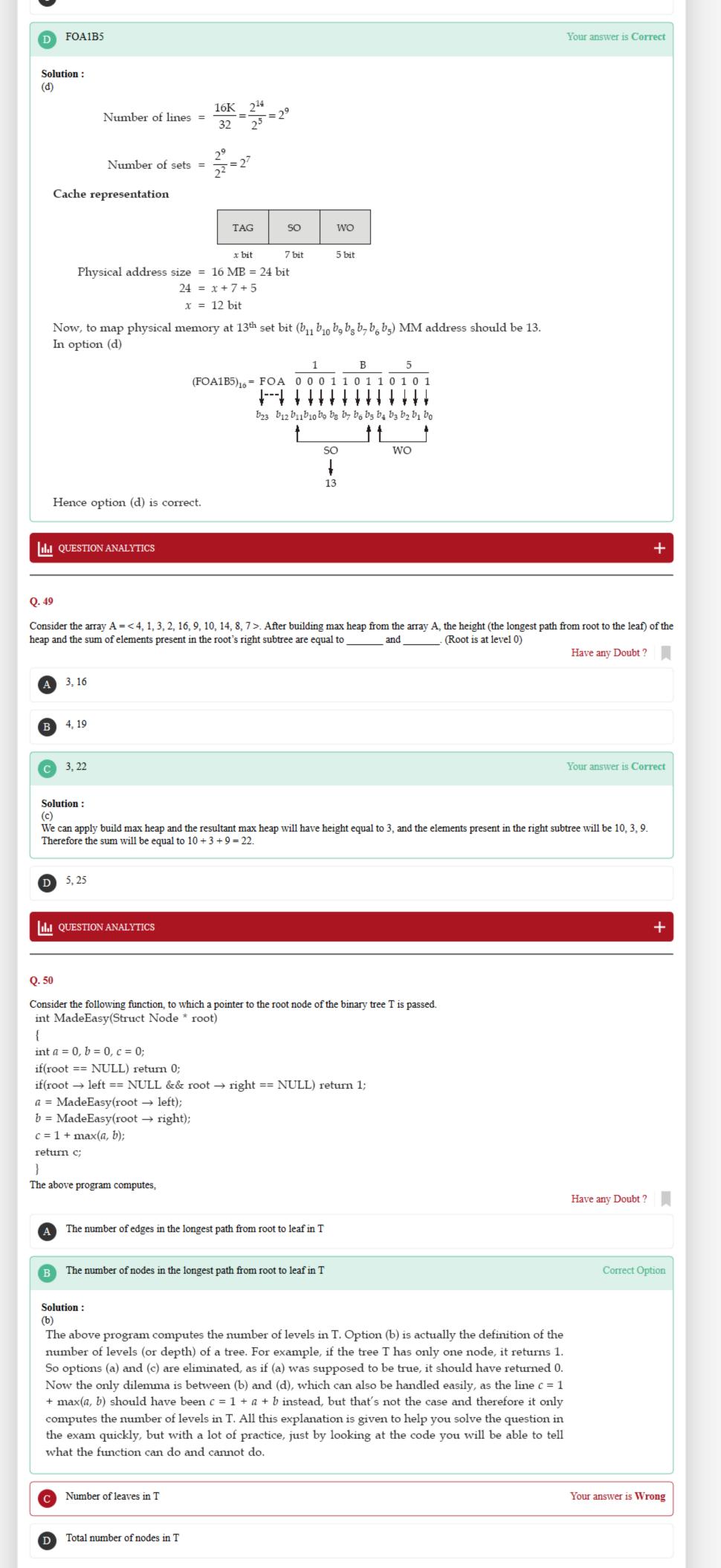




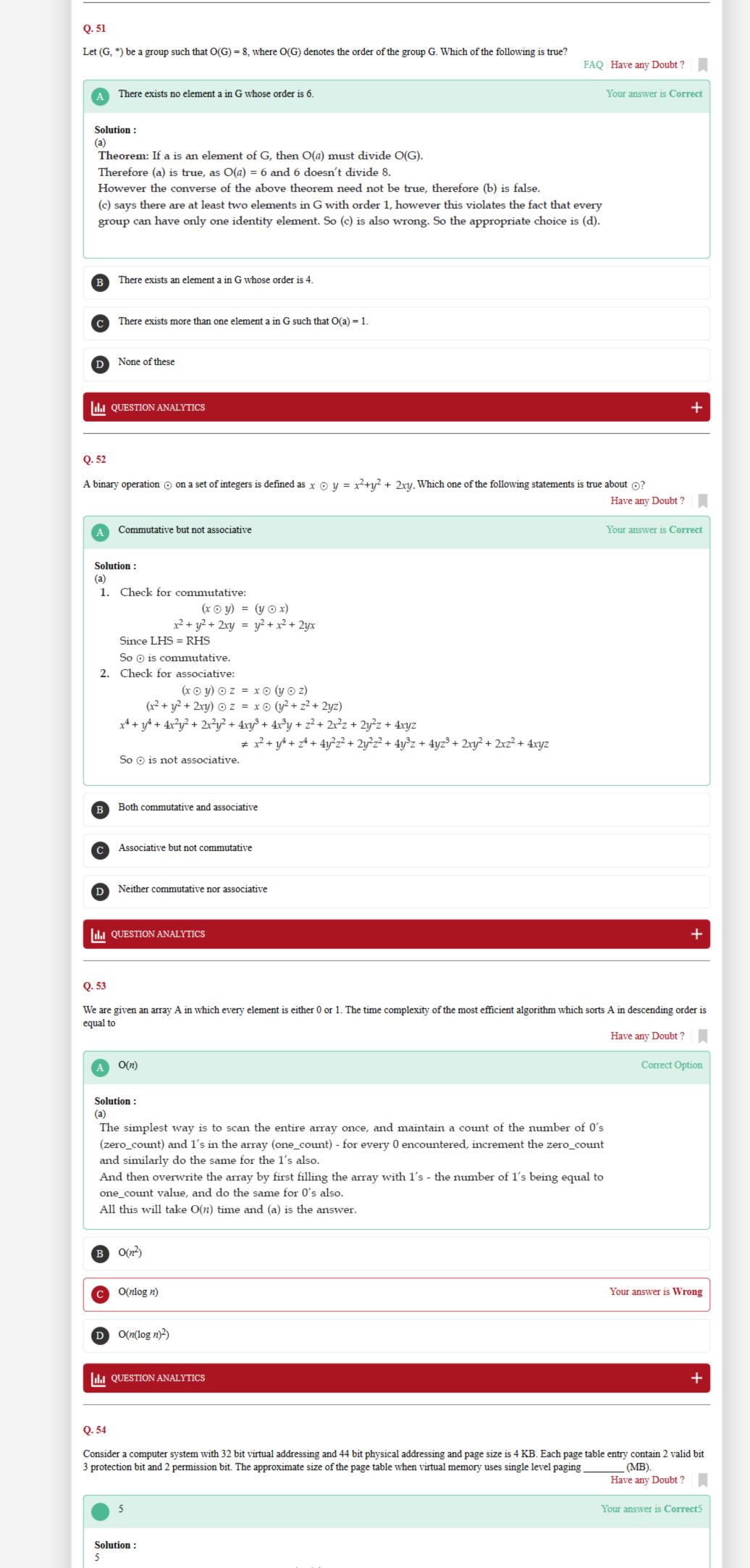








QUESTION ANALYTICS



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Number of pages = \frac{\text{Virtual address space}}{\text{Page size}}
                                   = \frac{2^{32}}{2^{12}} = 2^{20}
             Number of frame = \frac{2^{44}}{2^{12}} = 2^{32}
    Number of bits in page table entry = 32 + 2 valid bit + 3 protection bit + 2 permission bit
                                   = 39 \text{ bit} = 5 \text{ B}
                 Page table size = 2^{20} \times 5 B
                                   = 5 MB
 III QUESTION ANALYTICS
Q. 55
Consider the following relations, SQL query and given instances of relations: (where keys are underlined)
Student (snum, sname)
Enroll (snum, cname)
SELECT S.name FROM Student S WHERE
    S.snum NOT IN (SELECT E.snum FROM Enroll E)
     snum
               sname
                                             cname
                 Х
                                     1
                                              DS
       2
                 Y
                                     2
                                             Algo
       5
                 Z
                                     8
                                               C
       8
                 Α
                                     5
                                              DS
       10
                 Χ
                                     2
                                              DS
       15
                 Y
                                    15
                                              TOC
                                    19
                                              TOC
       18
                 Х
       19
                 Ε
                                    15
                                              DS
       22
                 F
                                    22
                                               C
         Student
                                        Enroll
Number of tuples returned by the SQL query is _
                                                                                                                    Have any Doubt?
       2
                                                                                                                           Correct Option
  Solution:
    SELECT S.name FROM Student S WHERE
        S.snum NOT IN (SELECT E.snum FROM Enroll E)
                             It return snum of all student who is enrolled in any course.
    Query return the sname of student who is not enrolled in any course.
    SQL does not eliminates duplicate so relation given by SQL query is
                                                     sname
                                                       Х
                                                       Х
    Total 2 tuple returns.
                                                                                                                         Your Answer is 1
 QUESTION ANALYTICS
Q. 56
What is the minimum level of B tree index required for storing 7500 key and order of B tree is 6. (Order is maximum child pointer a node can have)
                                                                                                                    Have any Doubt?
       5
                                                                                                                   Your answer is Correct5
  Solution:
                Order of B tree = 6
    Maximum key in one node = 5
                        1st level - 5 key
                        2^{nd} level -6 \times 5 key
                        3^{rd} level -6 \times 6 \times 5 key
                        4^{th} level -6 \times 6 \times 6 \times 5 key
                        5^{th} \; level \; - \; 6 \times 6 \times 6 \times 6 \times 5 \; key
       Total keys in five level = 5 + 30 + 180 + 1080 + 6480
                                   = 7775
    Total 5 level required.
 III QUESTION ANALYTICS
Q. 57
Consider the following sentence:
"There is exactly one God"
Let God(x) : x is a God
Now consider the following predicate logic statements.
I. \exists x \ God(x)
II. \exists x \; (God(x) \land \forall y \; (God(y) \Rightarrow x = y))
III. \exists x \forall y \; (God(x) \land (\sim God(y) \lor x = y)))
The number of statements which are equivalent to the above sentence is _____
                                                                                                                    Have any Doubt?
                                                                                                                           Correct Option
  Solution:
  2
   • I is not correct because it says "at least one God" instead of "exactly one God".
```

II is clearly the correct statement. III is same as II and can be obtained using,

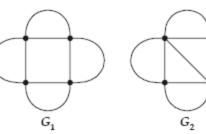
$$p \Rightarrow q \equiv \sim p \lor q$$

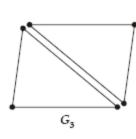
$$(God(y) \Rightarrow (x = y)) \equiv (\sim God(y) \lor (x = y))$$

ILI QUESTION ANALYTICS

Q. 58

Consider the following graphs:





The number of graphs which are Euler

Have any Doubt?



Correct Option

### Solution:

For a graph to be Euler, it must obeys the following conditions:

- 1. Every vertex of G must have even degree.
- G should be connected.
- $G_1$  is Euler, as it is connected and all vertices in  $G_1$  have even degree.
- $G_2$  has 2 vertices with odd degree  $\Rightarrow G_2$  is not Euler.
- $G_3$  is not connected  $\Rightarrow G_3$  is not Euler.



Your Answer is 2

QUESTION ANALYTICS

Q. 59

Out of all possible three digit numbers, a number is picked at random. The probability that the number does not contain the digit 6 is

Have any Doubt?

0.72 (0.70 - 0.74)

Correct Option

### Solution:

0.72 (0.70 - 0.74)

Total number of 3 digit numbers = 900 (Digits from 100 to 999)

At first place, 0 and 6 aren't allowed so 8 choices for filling first place; for second and third place, all digits are allowed except the digit 6, hence 9 choices for filling second and third place.  $n(\text{Not containing the digit 6}) = (8 \times 9 \times 9)$ 

n(not containing the digit 6) P(Not containing the digit 6) =  $(8 \times 9 \times 9)$ 

Solve this to get, 0.72 as the answer.

Your Answer is 0.8

# **ILL** QUESTION ANALYTICS

Q. 60

Consider the following C function: void foo(int n) while (n! = 0)if (!(n & 1)) printf("\*"); n = n >> 1;

The number of times printf("\*") statement is executed, when the value 2<sup>24</sup> is passed to the function foo() is \_\_\_\_\_.

Have any Doubt?

Correct Option



24

Solution:

The above function prints \* as many times as the number of zeroes in the binary representation of n. In  $2^{24}$ , the bit pattern is  $10^{24}$  (1 followed by 24 zeroes), and thus 24 stars are printed by the above function.

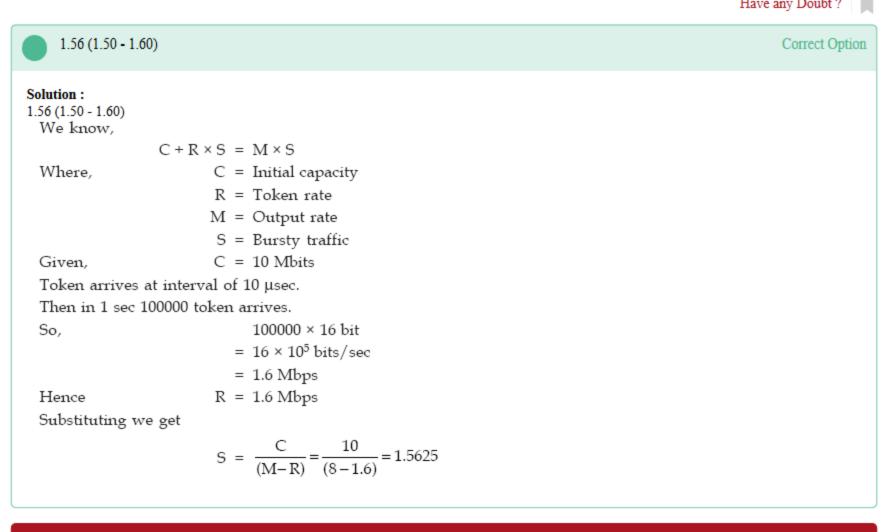


Your Answer is 25

III QUESTION ANALYTICS

Q. 61

A token bucket scheme is used for traffic shaping. A new token is put into the bucket at every 10 µsec. Assume each token picks one packet which contains 2 byte of data. It is observed that initial capacity of bucket is 10 Mbits. The computer can transmit at the full speed of 8 Mbps for \_\_\_ seconds upto 2 decimal places)

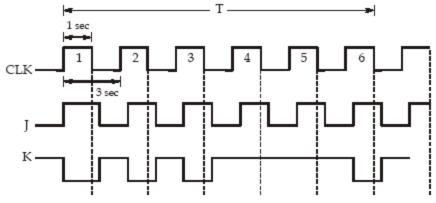


### ILI QUESTION ANALYTICS

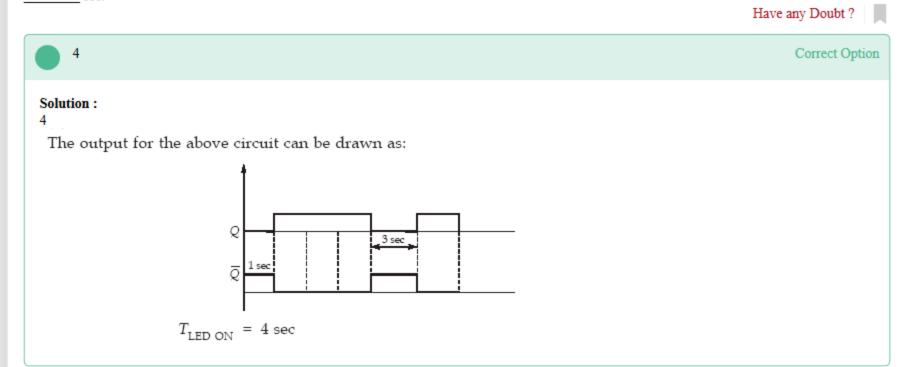
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### Q. 62

Consider a pulse triggered master slave JK flip-flop with inputs J and K as shown below:



The input to the LED is connected to the output  $\overline{Q}$  of the master slave flip-flop. The duration for which the LED will be ON in the time duration of T is \_\_\_\_\_ sec.



# III QUESTION ANALYTICS

+

### Q. 63

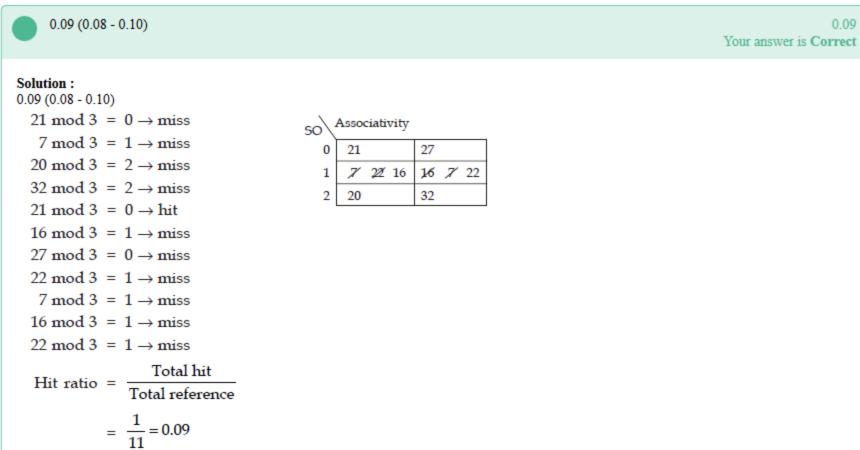
Consider a 2-way set associative cache with total 6 cache blocks and the following sequence of memory block requests arrived:

21, 7, 20, 32, 21, 16, 27, 22, 7, 16, 22

If I PII conforment policy is used then

If LRU replacement policy is used then the hit ratio will be \_\_\_\_\_\_. (Upto 2 decimal places.)

Have any Doubt?



# ILI QUESTION ANALYTICS

+

### Q. 64

Consider the following relations and instances of relations: (where primary keys are underlined)
Supply (<u>sid</u>, sname)
Parts (<u>pid</u>, pname, color)
Catalog (<u>sid</u>, <u>pid</u>)

	pid	pname	color		sid	pid	
	5	х	Red		100	5	
	10	Y	White		102	5	
	12	Z	Blue		108	10	
	15	Y	Ređ		115	12	
	18	A	Green		125	25	
	25	X	Black		115	28	
	28	В	Ređ		135	18	
	35	Х	Green				
		Parts			Cat	alog	
$_{ m sid}$ ( $\pi_{ m sid}$ (catalog)	$\times \pi_{\rm pid}$ (c	Scalar = 'ario	let (parts	s)) - π <sub>cid pid</sub>	(catalog))		
mber of tuples return	-						ns
-	_						Have any Doubt ?
0							Correct Option
Solution :							
() There is no violet col	lor in ralat	ion narta N	Jumbar of	tunla catuen hu	the erose n	raduat is 0 s	nd the number of tuples return by the query is 0.
		P		pro return oj	cross p		
LI QUESTION ANAL							+
III QUESTION ANAL	LYTICS						
III QUESTION ANAL	LYTICS	ar graph wi	ith 14 verti	ces and 20 edg	es. Then, th	ne number o	f closed regions in the planar embedding of the graph is
III QUESTION ANAL	LYTICS	ar graph wi	ith 14 verti	ces and 20 edg	es. Then, th	ne number o	
LI QUESTION ANAL	LYTICS	ar graph wi	ith 14 verti	ces and 20 edg	es. Then, th	ne number o	f closed regions in the planar embedding of the graph is
65 G be a simple conne	LYTICS	ar graph wi	ith 14 verti	ces and 20 edg	es. Then, th	ne number o	f closed regions in the planar embedding of the graph is  FAQ   Have any Doubt ?
65 G be a simple conne	LYTICS	ar graph wi	ith 14 verti	ces and 20 edg	es. Then, th	ne number o	f closed regions in the planar embedding of the graph is  FAQ   Have any Doubt ?
OUESTION ANAL	ected plana	ward pro	oblem.	ces and 20 edg	es. Then, th	ne number o	f closed regions in the planar embedding of the graph is  FAQ   Have any Doubt ?
65  G be a simple connection.	ected plana		oblem.	ces and 20 edg	es. Then, th	ne number o	f closed regions in the planar embedding of the graph is  FAQ   Have any Doubt ?
65  G be a simple connection.  7  Solution: 7  It's a fairly stra	ected plans	ward pro n = 14	oblem. 1, e = 20				FAQ   Have any Doubt?
65  G be a simple connection:  7  Solution: 7  It's a fairly strated Given,	ected plans	ward pro n = 14 umber of	oblem. 1, e = 20	regions in th			FAQ   Have any Doubt?
65  G be a simple connection:  7  Solution: 7  It's a fairly strated Given, We have to fine	ected plans	ward pro $n = 14$ umber of $r = (e$	oblem. 1, e = 20 closed r - n + 2)	regions in th	ne planar		FAQ   Have any Doubt?
65  G be a simple connection:  7  Solution: 7  It's a fairly strated Given, We have to fine	ected plans	ward pro $n = 14$ umber of $r = (e$ $r = (2)$	oblem. 1, e = 20 closed r - n + 2) 0 - 14 +	regions in th 2) = 6 + 2 =	ne planar		FAQ   Have any Doubt?
65 G be a simple connection: 7 Solution: 7 It's a fairly strated Given, We have to fine Use,	ected plans	ward pro $n = 14$ umber of $r = (e$ $r = (2$ $r = r_{e}$	oblem. 4, e = 20 closed r - n + 2) 0 - 14 + pen + r <sub>clos</sub>	regions in th 2) = 6 + 2 =	ne planar 8		FAQ   Have any Doubt?
OUESTION ANAL	ected plans	ward pro $n = 14$ umber of $r = (e$ $r = (2$ $r = r_{o}$ $r = 1$	oblem. 4, e = 20 closed r - n + 2) 0 - 14 + pen + r <sub>clos</sub>	regions in th 2) = 6 + 2 =	ne planar 8		FAQ   Have any Doubt?

ula QUESTION ANALYTICS