Examination: M.C.A. Computer Applications  Section 1 - Section 1
Question No.1
What is the maximum number of arguments that can be passed in a single function in C?  ○ 8  ○ 253
C 361 C 127
Question No.2  4.00  Bookmark
Identify the adverb in the following sentence:  We looked upwards and saw a bright shooting star  © upwards  © shooting  © looked  © bright
Question No.3
Which of the following is characteristic of Processed Data?  C Data is ready for analysis  All steps should be noted  Hard to use for data analysis  None of the mentioned
Question No.4
Bookmark ☐  Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are 30° and 45° respectively. If the lighthouse is 100 m high, the distance between the two ships is:  © 273 m  © 300 m  © 200 m  © 173 m
Which of the following logical formulas is logically equivalent to $(p \to r) \land (q \to r)$ ? $\to$ represents the logical IMPLIES connective, $\land$ represents the logical AND connective and $\lor$ represents the logical OR connective.
Question No.6 4.00
Bookmark ☐ Choose the missing term: SHG, RIF, QJE, PKD, ? C OLC C OLD C MLB

ONMD

Question No.7	4.00 Bookmark
Which of the following true about FILE *fp  © FILE is a buffered stream	
© FILE is a bulleted stream  © FILE is a keyword in C for representing files and fp is a variable of FILE type	
© FILE is a structure and fp is a pointer to the structure of FILE type	
○ FILE is a stream	
Question No.8	4.00 Bookmark
In the context of "break" and "continue" statements in C, pick the best statement.	Doominan [
<ul><li>"break" can be used in "for", "while" and "do-while" loop body.</li><li>"break" and "continue" can be used in "for", "while", "do-while" loop body and "switch" body.</li></ul>	
o "continue" can be used in "for", "while" and "do-while" loop body.	
O "break" and "continue" can be used in "for", "while" and "do-while" loop body. But only "break" can be used in "sw	vitch" body.
Question No.9	4.00
A user can get files from another computer on the internet by using	Bookmark 🗂
O utp	
o telnet	
○ http ○ ftp	
Question No.10	4.00
Modion of 7 C 4 9 2 F 44 in	Bookmark 🗇
Median of 7, 6, 4, 8, 2, 5, 11 is O 4	
0.8	
O 12 O 11	
O II	
Question No.11	4.00 Bookmark
What does the following C-statement declare? int ( * f) (int * );	BOOKIIIAIK [_
O A function that takes an integer pointer as argument and returns an integer	
<ul> <li>A function that takes an integer pointer as argument and returns a function pointer</li> <li>A pointer to a function that takes an integer pointer as argument and returns an integer.</li> </ul>	
A function that takes an integer as argument and returns an integer pointer.	
Question No.12	4.00
	Bookmark □
(1010.011) <sub>2</sub>	
○ (11.365) <sub>10</sub> ○ (10.365) <sub>10</sub>	
© (10.375) <sub>10</sub>	
© (11.375) <sub>10</sub>	
Question No.13	4.00 Bookmark
Which of the following is a comment on the line of code below?	
const int *ptr;	
O You cannot change the pointer ptr itself.	
<ul><li>You can change the pointer as well as the value pointed by it.</li><li>You may or may not change the value pointed by ptr.</li></ul>	

C You cannot change the value pointed by ptr.

## **Question No.14**

4.00

Bookmark  $\sqcap$ 

Pointing to a photograph, a woman says, "This man's son's sister is my mother-in-law." How is the woman's husband related to the man in the photograph?

- C Son-in-law
- Nephew
- Grandson
- C Son

## **Question No.15**

4.00

Bookmark |

The contrapositive of the conditional statement  $p \to q$  ( $\to$  means the logical IMPLIES connective) is

$$^{\circ} \neg q \rightarrow \neg p$$
.

$$\circ \neg p \to \neg q$$
.

$$\circ q \to p$$
.

$$\circ \neg q \to p$$
.

Question No.16

4.00

Bookmark □

Predict output of the C code given below

```
#include <stdio.h>
int main()
{
    float f1 = 0.1;
    if (f1 == 0.1)
        printf("equal\n");
    else
        printf("not equal\n");
}
```

- Equal
- Not equal
- Output depends on the compiler
- Code does not compile

Question No.17 4.00

Bookmark [

- Which of the following is true about arrays in C.
  - C For every type T, there can be an array of T
  - C 2D arrays are stored in column major form

<ul> <li>When an array is passed to a function, C compiler creates a copy of array.</li> <li>For every type T except void and function type, there can be an array of T.</li> </ul>	
Question No.18  In fopen(), the open mode "wx" is sometimes preferred over "w" because. 1) Use of wx is more efficient. 2) If w is used, of file are erased and a new empty file is created. When wx is used, fopen() returns NULL if file already exists.  © only 2	4.00 <b>Bookmark</b> □  old contents
© Both 1 and 2 © Only 1 © neither 1 and 2	4.00
What does error 404 or Not Found error while accessing a URL mean?  The requested HTML file does not have sufficient permissions Requested HTML file is not available The server could not find the requested URL The path to the interpreter of the script is not valid	8ookmark □
Question No.20  How many solutions does the equation $x_1 + x_2 + x_3 = 11$ have, where $x_1$ , $x_2$ and $x_3$ are non-negative integers?  68  58  78  88	4.00 Bookmark □
In C programming language, # define is a  Function Operator Pre-processor None of these	4.00 Bookmark □
Question No.22  Suppose a C program has floating constant 1.414, what's the best way to convert this as "float" data type?  1.414 itself of "float" data type i.e. nothing else required.  (float)1.414  float(1.414)  1.414f or 1.414F	4.00 Bookmark ⊡
<ul> <li>Question No.23</li> <li>The reason for using pointers in a C program is</li> <li>Pointers allow different functions to share and modify their local variables.</li> <li>To pass large structures so that complete copy of the structure can be avoided.</li> <li>Pointers enable complex "linked" data structures like linked lists and binary trees.</li> <li>All of the Above</li> </ul>	4.00 Bookmark □
Question No.24	4.00 Bookmark □

Compute the next item in the series: 5, 8, 13, 21, 34, ?

55

C 56

C 88

None of the above

## **Question No.25**

Are logical operators in C evaluated with shortcut evaluation?

- C Depends on compiler
- C Depends on platform
- Yes

## **Question No.26**

Bookmark [

Bookmark |

Anand is heavier than Gopal. Mohan is lighter than Jagan. Pandian is heavier than Jagan but lighter than Gopal. Who is the heaviest of all?

- Anand
- Pandian
- C Gopal
- Jagan

**Question No.27** 4.00

Bookmark

In the game of Sudoku, let the predicate p(i, j, n) represent that the cell in row i and column j contains value n. Which of the following formulas asserts that every column contains all the numbers? A represents logical AND, V represents logical OR.

$$\bigcap_{i=1}^{9} \bigwedge_{n=1}^{9} \bigvee_{j=1}^{9} p(i, j, n)$$

$${}^{\circ} \bigwedge_{j=1}^{9} \bigwedge_{n=1}^{9} \bigvee_{i=1}^{9} p(i,j,n)$$

$$^{\circ} \bigwedge_{j=1}^{9} \bigwedge_{n=1}^{9} \bigvee_{i=1}^{9} p(i,j,n)$$

$$^{\circ} \bigvee_{j=1}^{9} \bigwedge_{n=1}^{9} \bigvee_{i=1}^{9} p(i,j,n)$$

$$^{\circ} \bigwedge_{i=1}^{9} \bigwedge_{n=1}^{9} \bigwedge_{i=1}^{9} p(i,j,n)$$

**Question No.28** 

Bookmark |

In the following question, the first two words (given in italics) have a definite relationship. Choose one word out of the given four alternatives which will fill the blank space and showthe same relationship with the third word as between the first two.

Truthfulness is to Liar as Loyalty is to .....?....

- Worker
- Falsehood
- Traitor
- O Devotion

**Question No.29** 4.00

Bookmark □

Let A be a set,  $\Phi$  represent the empty set and let  $\times$  represent the Cartesian product operation over sets. Which of the following is equivalent to  $\Phi \times A$ ?

C Duestion No.30  What is the cardinality of the set (a, (a), (a, (a)))??  The company of the set (a, (a), (a, (a)))??  The company of the set (a, (a), (a, (a)))??  The company of the set (a, (a), (a, (a)))??  The six not a set  Cuestion No.31  A 0.00  Which of the following is a list of data protocols that are used in IoT applications?  C SLOWPAN, P-MIPPO  TOPIPP, UDP  C TOPIPP, UDP  C WIFE, Blastoch  C MQTT, CoAP, AMOP  Cuestion No.32  A 0.00  Bookmark   C NOR of the mendioned  Cuestion No.33  A 0.00  Which of the following is used to covert URs, into IP address?  C C SS  C DNS  C AIAX  C None of the mendioned  Cuestion No.34  4.00  Bookmark  Bookmark  C SS  C DNS  C AIAX  C None of the set  C None of the set  Cuestion No.34  4.00  Bookmark  C None of the set  Cuestion No.34  4.00  Cuestion No.34  4.00  Bookmark  C None of the set  Cuestion No.35  C SS  C DNS  C AIAX  C None of the set  Cuestion No.34  4.00  Bookmark  C Note of the set  Cuestion No.35  C SSOL  C Note of the set  Cuestion No.35  C C SS  C DNS  C AIAX  C None of the set  Cuestion No.35  C C SS  C DNS  C ROSS  C SSOL  C C SSCL  C FORTRAN  C C COSC  C SS2	© We cannot take the Cartesian product of a set A with the empty set.	
Question No.30 What is the cardinality of the set {a,{a},{a,{a}}}?? C TWO C Three C Four C Three C Four C This is not a set  Question No.31  Which of the following is a list of data protocols that are used in IoT applications? C BlowPAN, PMIPM C TCPIP, UIDP C WIFF, Blustooth C MOTT, CoAP, AMOP  Question No.32  AppanieT  The first relevant that planted the seeds of internet was C ARPANIET C INSPINET C None of the mentioned  Question No.33  ADD  Which of the following is used to covert URL Into IP address? C CSS C DNS C AJAX C None of these  Question No.34  Storier is similar to which of the following? C storier C Not similar to any of the above C Both sticut and stitin C storier C Not similar to any of the above C Both sticut and stitin C Storier C PASCAL C FORTRAN C CORGL.	ОФ	
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Identify the odd item  PASCAL  FORTRAN  COBOL		
© FORTRAN © COBOL	Identify the odd item	IIIAIN L
O COBOL	O PASCAL	

<pre>Which of the following operators can be applied on structure variables?</pre>	4.00 Bookmark ┌┐
Which of the following Linux Distribution(s) is/are developed in India with focus on Indian Language Interface?  Ubuntu RedHat BOSS None of these	4.00 Bookmark ☐
In binary logic, complement of the expression A'B + CD' is  (A'+ B)(C'+ D)  (A + B')(C'+ D)  (A'+ B)(C+ D')  (A + B')(C + D')	4.00 Bookmark
Let $A, B$ and $C$ be sets. Which of the following is equivalent to $\overline{(A \cup (B \cap \overline{A} \cap \overline{B}) \cup \overline{A})}$ represents the complement of the set $A$ . $(\overline{C} \cap \overline{B}) \cup \overline{A}$ $(\overline{C} \cup \overline{B}) \cap \overline{A}.$ $(\overline{A} \cup \overline{B}) \cap (\overline{A} \cup \overline{C})$ $(\overline{A} \cap \overline{B}) \cup (\overline{A} \cap \overline{C})$	4.00 Bookmark $\square$
pragma startup is primarily used for which of the following? Cleaning memory before program execution starts Informing the operating system about a crash Execute a function before the main function Execute a function soon after the main function	4.00 Bookmark ☐
Question No.41	4.00 Bookmark □

		Υ.	
<del></del>	$\rightarrow$	$\triangle \rightarrow$	$\Rightarrow$
(A) C D	(B)	(C)	(D)
ОВ			
O C			
$\circ$ A			

Question No.42	4.00
----------------	------

Bookmark |

Suppose n and p are unsigned int variables in a C program. We wish to set p to  $^{n}$ C<sub>3</sub>. If n is large, which of the following statements is most likely to set p correctly?

- $\circ$  p = n \* (n-1) / 2 \* (n-2) / 3;
- $\circ$  p = n \* (n-1)/3 \* (n-2)/2;

Question No.43 4.00

Bookmark |

Which of the following is true about the logical formula  $(p \land q) \rightarrow (p \lor q)$ ?

- C It is not a well-formed formula.
- C It is just a satisfiable formula.
- O It is a contradiction
- It is a tautology

Question No.44
4.00
Bookmark □

How many Permutations of the letters of the word APPLE are there?

- C 60
- C 240
- O 120
- C 600

Question No.45 4.00

Bookmark 🗆

Three matrices A, B and C have to be multiplied. Which of the following represents a sequence of dimensions of the three matrices for which their multiplication is well-defined?

- $^{\circ}$  A is a  $m \times n$  matrix. B is a  $n \times n$  matrix and C is a  $m \times m$  matrix.
- ° A is a  $m \times n$  matrix, B is a  $m \times n$  matrix and C is a  $n \times m$  matrix.
- $^{\circ}$  A is a  $m\times n$  matrix, B is a  $m\times k$  matrix and C is a  $m\times p$  matrix.
- <sup>c</sup> A is a  $m \times n$  matrix, B is a  $n \times k$  matrix and C is a  $k \times p$  matrix.

Question No.46 4.00

Situation in which not a single row is linear combination of remaining rows is classified as

- C identity dependence
- C linearly dependant
- C linearly independent
- C identity independence

Question No.47 4.00

Bookmark 🗆

Bookmark [

If Milk is water, water is sugar, sugar is road, road is sky and sky is track where do aeroplanes fly?

- Milk
- C Sky
- Sugar

○ Road	
Question No.48	4.00
Which of the following machine learning algorithm works with continuous data?	Bookmark □
© Classification	
© Dimensionality reduction	
Clustering Regression	
U negression	
Question No.49	4.00 Bookmark
Which of the following is associated with Block chain technology?	<b>BOOKHAIK</b>
© Bitcoin	
○ Worm ○ Virus	
© Cybercoin	
Question No.50	4.00 Bookmark
In the context of Web, CSS stands for	
C Closed Style Sheets	
<ul><li>Closed Style Sheets</li><li>Color Style Sheets</li></ul>	
O None of these	
Question No.51	4.00
	Bookmark □
The cube root of .000216 is:	
C 0.06	
○ 0.6	
C 77	
Question No.52	4.00
	Bookmark 🗂
Array of elements in rectangular arrangement is classified as  C Linked List	
© elements array	
© elements	
C matrix	
Question No.53	4.00
Bristle: Brush	Bookmark 🗂
© Stage: Chairs	
C Arm: Leg	
C Key: Piano	
C Art: Sculpture	
Question No.54	4.00
Choose the best synonym of the italicized word.	Bookmark 🗂
Reena has an insatiable love for music.	
© unquenchable	
© unchanging © undesirable	
∪ uiuesiiabie	

irreconcilable

```
Question No.55
                                                                                               4.00
                                                                                       Bookmark [
What is the output of the following C code?
 #include <stdio.h>
 void main()
 {
     int i = 2;
     do
      1
            printf("Hi");
     } while (i < 2)
 }
   O Hi

    No output

   C Compile time error
```

**Question No.56** 4.00

Bookmark [

Which of the following represents the type (extension) of file for a mobile application that one would download from Google Play Store?

ipa extension

O Hi Hi

- .jar extension
- c exe extension
- apk extension

Question No.57 4.00

The action 'STACK(A, B)' of a robot arm specify to

- C Place block B on Block A
- C Place blocks B, A on the table in that order
- C Place blocks A, B on the table in that order
- C Place block A on block B

**Question No.58** 4.00

Bookmark

Bookmark □

Assertion: Crude oil is abundantly found in nature

Reason: It is the main raw material for all automobiles

- C Both A and R are true and R is not the correct explanation of A
- A is false but R is true
- © Both A and R are true and R is the correct explanation of A
- C A is true but R is false

Question No.59 4.00

Bookmark [

These <u>poultry</u> belong to Mr. Kishen, our new neighbor The underlined word is a \_\_\_\_\_noun.

- abstract
- C common

© collective	
© proper	
Question No.60	4.00
Study the following information carefully and answer the question below it	Bookmark 🗂
The Director of an MBA college has decided that six guest lectures on the topics of Motivation, Decision Making, Quality Assessment Centre, Leadership and Group Discussion are to be organised on each day from Monday to Sunday.  (i) One day there will be no lecture (Saturday is not that day), just before that day Group Discussion will be organised.  (ii) Motivation should be organised immediately after Assessment Centre.  (iii) Quality Circle should be organised on Wednesday and should not be followed by Group Discussion  (iv) Decision Making should be organised on Friday and there should be a gap of two days between Leadership and Group Discussion	
Which of the pairs of lectures were organised on first and last day?  C Quality Circle and Motivation C Group Discussion and Quality Circle C Group Discussion and Decision Making None of these	
	<b>)</b>
Question No.61	4.00 Bookmark
What does the following C statement mean? scanf("%4s", str); C Read maximum 4 characters from console. C Read exactly 4 characters from console. C Read a string str in multiples of 4 C Nothing	BOOKINAIK [_
Question No.62	4.00  Bookmark
Study the following information carefully and answer the question below it	Bookmark [
(i) There is a group of five persons- A, B, C, D and E (ii) One of them is manual scavenger, one is sweeper, one is watchman, one is human scarecrow and one is grave-digger (iii) Three of them – A, C and grave-digger prefer tea to coffee and two of them – B and the watchman prefer coffee to tea (iv) The human scarecrow and D and A are friends to one another but two of these prefer coffee to tea. (v) The manual scavenger is C's brother	
Which of the above statements is unnecessary?	
C (iii) C (ii) C Nill C (iv)	
	1.00
Question No.63  Which of the following is not a logical operator?	4.00 Bookmark □
O &&	
O =>	
Ougstion No 64	4.00
Question No.64	4.00 Bookmark □
What is the output of the following C code?	
include <stdio.h></stdio.h>	
void main()	
{	

```
#define max 37;
    printf("%d", max);
}

Compile time error
    max
    Depends on compiler
    37
```

Question No.65

Bookmark 🖂

Automatic variables in C are allocated memory in

- Code segment
- Stack
- O Data segment
- Heap

Question No.66

Bookmark

What is the output of the following C code?

```
#include <stdio.h>
struct point
{
    int x;
    int y;
};
void foo(struct point*);
int main()
{
    struct point p1 = {1, 2};
    foo(&p1);
}
void foo(struct point *p)
{
    printf("%d\n", *p->x++);
}
c1
c2
c Compile time error
```

Question No.67 4.0

Bookmark □

The least perfect square, which is divisible by each of 21, 36 and 66 is:

C 214344

Segmentation fault

- C 231444
- C 213444
- C 214434

Bookmark |

**Question No.68** 4.00

Study the following information carefully and answer the question below it:

Aasha, Bhuvnesh, Charan, Danesh, Ekta, Farhan, Ganesh and Himesh are sitting around a circle, facing the centre. Aasha sits fourth to the right of Himesh while second to the left of Farhan. Charan is not the neighbour of Farhan and Bhuvnesh. Danesh sits third to the right of Charan. Himesh never sits next to Ganesh.

Who is to the immediate left of Aasha?

- Ganesh
- C Charan
- Aasha
- C Bhuvnesh

**Question No.69** 4.00

Bookmark [

Bookmark [

What is the output of the C code below?

```
#include <stdio.h>
void main()
{
    int a[3] = {1, 2, 3};
    int *p = a;
    printf("%p\t%p", p, a);
}
```

- C Same address printed
- C Compile time error
- No output
- O Different address printed

Question No.70 4.00

In arithmetic progression, if d = -4, n = 7, an = 4, then a is

- C 28
- C 20
- O 6
- 07

Question No.71 4.00

Let $p$ be the proposition "You drive over 80 kilometres per hour." and let
q be the proposition "You get a speeding ticket.". Which of the following
formulas represents the statement "Whenever you get a speeding ticket,
you are driving over 80 kilometres per hour"? In the options below, $\rightarrow$
represents the logical IMPLIES connective and $\wedge$ represents the logical
AND connective.

```
^{\circ} q \rightarrow \neg p.
```

- $\circ p \wedge \neg q$ .
- $\circ q \rightarrow p$ .
- $^{\circ}$   $p \rightarrow q$ .

Question No.72 4.00

Bookmark 🗀

Which pre-defined function returns a pointer to the last occurrence of a character in a string?

- strchr(s, c);
- c strlchr(s, c);
- c strrchr(s, c);
- strfchr(s, c);

Question No.73

Bookmark |

Bookmark |

X is twice as good a workman as Y and together they finish a piece of work in 18 days. In how many days will X alone finish the work?

- O 27
- O 28
- C 25
- C 26

Question No.74

A quadratic polynomial with real number coefficients has,

- More than two real roots
- C Exactly two real roots
- C Exactly two roots that are natural numbers
- At most two real roots

**Question No.75** 4.00

Bookmark  $\sqcap$ 

The term Ajax is best described by which of the following?

- $\ensuremath{^{\circ}}$  A single technology that can be used to implement a web application in the client side.
- O A single technology that can be used to implement a web application in the server side.
- C A group of technologies that can be used to implement a web application in the client side.
- C A group of technologies that can be used to implement a web application in the server side.

Question No.76

Bookmark |

The mother gripped her child's arm\_\_\_\_\_ he be trampled.

C lest C unless C if C if not	
Which combination of the integer variables x, y and z makes the variable a get the value 4 in the following expression? <b>a</b> $((x > z)?x:z):((y > z)?y:z)$ $(x > z)?x:z):((y > z)?y:z)$ $(x = 3, y = 4, z = 2)$ $(x = 6, y = 3, z = 5)$ $(x = 5, y = 4, z = 5)$ $(x = 6, y = 5, z = 3)$	4.00 <b>Bookmark</b> ☐ = (x > y)?
Question No.78  If you want to align text to the right side of an block element in a cascading style sheet (CSS) then which of the following would you use?  Outsify  Text Align Right Align Left Align	4.00  Bookmark property
Which of the following is true  gets() can read a string with newline chacters but a normal scanf() with %s can not.  gets() can read a string with spaces but a normal scanf() with %s can not.  gets() can always replace scanf() without any additional code.  None of the Mentioned	4.00 Bookmark □
As a country, the United States is that there are five time zones.  o so big o much big o too big o very big	4.00 Bookmark <u></u> □
Question No.81  The function/macro putchar(c) always outputs character c to the  © Depends on the compiler  © Standard output  © Screen  © Depends on the standard	4.00 Bookmark □
Question No.82  The communication protocol used by Internet is  HTTP FTP WWW TCP/IP	4.00 Bookmark
Question No.83	

© Embedware © Freeware © Closeware	
Which of the following causes an error?  Trying to read a file that doesnt exist.  Inability to write data in a file.  Failure to allocate memory with the help of malloc.  All of the items above.	4.00 Bookmark
<pre>Question No.85  In a Javascript Application what function can be used to send messages to users requesting for an text input?</pre>	4.00 Bookmark □
Which of the following statement is correct for switch controlling expression?  Both int and char can be used in "switch" control expression  All types i.e. int, char and float can be used in "switch" control expression  switch" control expression can be empty as well.  Only int can be used in "switch" control expression.	4.00 Bookmark □
What is the use of "#pragma once"?  Used to avoid multiple declarations of same variable.  Used to avoid assertions  to cause the current source file to be included only once in a single compilation  Used in a c file to include a header file at least once	4.00 Bookmark □
computing refers to applications and services that run on a distributed network using virtualized resources.  Cloud Parallel Soft Distributed	4.00 Bookmark □
Which of the following is NOT a protocol?  IMAP SMTP HTTP CSS	4.00 Bookmark □
Question No.90  Process in which elements of matrix combined together to compute real-valued number is classified as C matrix combination	4.00 Bookmark

○ determinant

- real combination
- optimization

**Question No.91** 4.00

Bookmark |

The function tolower(c) defined in library works for which of the following.

- O Unicode character set
- Any character set
- C Ascii and utf-8 but not EBSIDIC character set
- C Ascii character set

Question No.92

Bookmark 
Correct the error in the italicized part of the sentence by choosing the most appropriate option.

Whenever the two sisters go out for shopping, they take their pet dog with them.

- o go out of shopping
- C go out shopping
- O go out on shopping
- O go out to shopping

Question No.93

Bookmark [

What is the output of this C code (if run with no options or arguments)?

```
#include <stdio.h>
int main(int argc, char *argv[])
{
    printf("%d\n", argc);
    return 0;
}
co
co
co
co
```

C Depends on the compiler

C Compile time error

Question No.94 4.00
Bookmark □

Choose the best antonym of the italicized word.

The task assigned to him was arduous.

- C good
- easy
- absorbing
- plain

**Question No.95** 4.00

8723 in BCD equals

- C 1000 0001 0010 0011
- C 1000 0111 0110 0011
- C 1000 0111 0010 0011
- C 1000 0101 0010 0011

**Question No.96** 

4 00

Bookmark [

Due to, the subways were closed all morning.  © floods © its flooding © flood © are flooded  Question No.97  Mode of 12, 17, 16, 14, 13, 16, 11, 14 is © 14 © 11 © 13 © 14 and 16
Question No.98  ### Bookmark ☐  Which of the following lists the service models of cloud computing?  © REST services, SOAP  © Infrastructure as a Service, Platform as a Service, Software as a Service  © Cloud clients  © Service oriented architecture
Based on the information given, answer the below question.  1. A,B,C,D,E and F are travelling in a bus.  2. There are two reporters, two mechanics, one photographer and one writer in the group.  3. Photographer A is married to D who is a reporter.  4. The writer is married to B who is of the same profession as that of F.  5. A,B,C,D are two married couples and no one in this belong to the same profession.  6. F is the brother of C.  Which of the following is the pair of reporters?  C AE  C DE  C Cannot be determined  DF
Question No.100  Which of the following is not a valid variable name declaration in C?  ○ int _a3  ○ int a_3  ○ int 3_a  ○ int a3

Sr No.	MCA
	Which term will replace the question mark in the series: ABD,DGK,HMS,MTB,SBL, ?
Alt1	
Alt2	ZKW
Alt3	ZAB
Alt4	XKW
2	Choose word from the given options which bears the same relationship to the third word, as the first two bears: Illiteracy: Education:: Flood:?
Alt1	Rain
Alt2	Bridge
Alt3	Dam
Alt4	River
	Select the lettered pair that has the same relationship as the original pair of words:  Sip: Gulp
Alt1	Touch: Push
Alt2	Cup: Class
Alt3	Tent: Hut
Alt4	Soup: Water
4	Select the lettered pair that has the same relationship as the original pair of words:
	Low : Cattle
	Sheep: Beef
	Gaggle: Chicken
	Grunt: Hogs
Alt4	Flock: Goat
	Find out the number that has the same relationship as the numbers of the given pair:
	8:81::64:?
Alt1	
Alt2	
Alt3	
Alt4	625
C	Constitute defeative assume out from the following.
	Spot the defective segment from the following:
	It's time
	the students dispersed
	to go to home
Alt4	after study hours
-	Thous is no in our car and it is already arounded
	There is no in our car and it is already crowded.
	room
	place
Alt3	seat

Δlt/I	space
AIL4	space
0	Newton loved his pet dog very much.
	a scientist
	the scientist
	scientist
Alt4	one scientist
0	
	Choose the option closest in meaning to the given word:
	JINGOISM
	deism
	chauvinism
	extremism
Alt4	pacifism
10	Choose the antonymous option you consider the best:
	QUACK
	bizarre
	procurer
	charlatan
Alt4	authority
	In a village there are 1000 persons. Out of which 800 are literates. Out of 1000,700 are criminals. There are 550
	literate criminals in that village. How many Illiterate non criminals are there?
Alt1	
Alt2	
Alt3	
Alt4	200
12	Average weight of A,B,C is 45;
	Average weight of A&B is 40;
	Average weight of B&c is 43, Weight of B is
Alt1	17
Alt2	20
Alt3	26
Alt4	31
13	Which of the following cannot be the Median of the three positive Integers X,Y & Z?
Alt1	X
Alt2	Z
Alt3	X+Z
Alt4	(X+Z)/3
14	How many Zero's are there in the product 1*2*3**10
Alt1	
Alt2	10
Alt3	

Alt4	6
15	A,B,C,D work on a project. Together A,B &C can complete in 100 days; Together B,C &D can complete in 101
	days; Together C,D & A can complete in 102 days; together D,A & B can complete in 103 days . Rank them from
	the best to the worst performer.
Alt1	C>B>A>D
Alt2	C>A>B>D
Alt3	D>B>A>C
Alt4	D>A>B>C
•	
16	22 Students are evenly spaced on the circumference of a big circle. They are numbered 1to 22, which number is
	opposite to 17?
Alt1	
Alt2	
Alt3	
Alt4	
· <u> </u>	
17	The fare of a luxury cab is Rs. X for the first five Kilometres and Rs,13/- per Kilometre thereafter. If a
_	passenger pays Rs.2402/- for a journey of 187 kilometres, what is the value of X?
Alt1	Rs.29
	Rs.39
	Rs.36
	Rs.31
	13.51
18	An HR Company employs 4800 people out of which 45 per cent are males and 60 per cent of males are either
	25 years or older. How many males are employed in that company who are younger than 25 years ?
	23 years of older. How many males are employed in that company who are younger than 23 years.
Alt1	2640
	2160
	1296
Alt4	
/ 110-1	004
19	A person buys a shirt with marked price Rs.400/- at 20% discount. In order to make a profit of 20% the person
10	should sell the shirt for
Δlt1	Rs.400/-
	Rs.384/-
	Rs.320/-
	Rs.480/-
البال	NS.46U/-
20	The following information is given:(i) Five friends P, Q, R. S and T travelled to five different cities of Chennai,
20	
	Calcutta, Delhi, Bangalore and Hyderabad by five different modes of transport of Bus, Train,
	Aeroplane, Car and Boat from Mumbai. (ii) The person who travelled to Delhi did not travel by boat.
	(iii) R went to Bangalore by car and Q went to Calcutta by aeroplane.(iv) S travelled by boat whereas T travelled
	by train.
	(v) Mumbai is not connected by bus to Delhi and Chennai. Which of the following combinations of place and
	mode is not correct ?

Alt1	Delhi — Bus
Alt2	Calcutta — Aeroplane
Alt3	Bangalore — Car
Alt4	Chennai — Boat

	A pineapple costs Rs. 7 each. A watermelon costs Rs. 5 each. X spends Rs. 38 on these fruits . The number of pineapples purchased is:-
Alt1	4
Alt2	2
Alt3	3
Alt4	Data inadequate

To resolve the problem of transmission of clear text passwords, we can first encrypt the password on the user's computer and then send it to the server for authentication. This means that we must provide for some sort of cryptographic functionality on the user's computer. In fact, this functionality is needed even in the approach of encrypting the random number with the message digest of the user's password. This is not a problem in the case of client-server applications, where the client is capable of performing computations anyway. However, in the case of Internet applications, where the client is a Web browser, which does not have any special programming capabilities, this can be a problem. Consequently, we must resort to technologies such as Secure Socket Layer (SSL). That is, a secure SSL connection must be established between the client and the server, which would involve the step wherein the client verifies the server's authenticity based on the server's digital certificate. After this, all the communication between the client and the server will be encrypted using SSL, so the password need not have any application-level protection mechanisms now. SSL would perform the required encryption operations.

Based on the passage, we understand that SSL is needed only:-

Alt1 In client server communication

Alt2 When password for transmission needs to be encrypted

Alt3 When the client has to communicate securely with the server through a web browser

Alt4 When the client does not have any special programming capabilities

23 Enigma machine is a mechanical tool used by the Germans in World War II to scramble messages and prevent the enemy from understanding them. Enigma was based on revolving wheels, or rotors, that were wired together and connected to a typewriter keyboard. There were so many ways to encrypt a message that even if 1,000 analysts tried four different ways each minute, all day, every day, it would have taken the team 1.8 billion years to test them all.

So, how did the Allies break the encryption? First, they made use of the likely chatter over the wires about each day's events. By guessing that the Germans would be discussing certain places or issues, the Allies found sections of scrambled text that they could relate to the original messages, or cleartext. Next, they concentrated on Luftwaffe messages. Counting on the likelihood that the Luftwaffe signalmen were not as well trained as those in the Army or Navy, the Allies watched for slip-ups that increased the odds of understanding the encrypted messages. For instance, Luftwaffe signalment often used 'a girlfriend's name for a key setting or beginning a second message with the same setting as that left at the ending of the first'. Such knowledge enabled the Allies to determine some of the Luftwaffe's plans during the Battle of Britain. Thus, sophisticated technology can be trumped when control protocols are not followed carefully and completely.

Which of the following is true about Enigma with reference to the passage above?

Alt1 Enigma is an electro-mechanical tool because it has revolving wheels which are wired to a typewriter keyboard

	Enigma is a mechatronic tool because it has revolving wheels which are wired to a typewriter keyboard
Alt3	Enigma is only a mechanical tool
Alt4	Enigma is a computer-supported mechanical tool because it has revolving wheels which are wired to a typewriter keyboard
24	The ".com" stands for:-
	Component
	Commercial
Alt3	Computer
	Committed
25	Two numbers are in the ratio 2: 3. If their L.C.M. is 48. What is sum of the numbers?
Alt1	28
Alt2	40
Alt3	42
Alt4	68
26	The transmission medium which uses light is called:-
Alt1	Log wire
Alt2	Mirror wire
Alt3	Fibre Optics
Alt4	UTP
27	There is a group of seven persons in a family, A, B, C, D, E, F and G. They all appeared in an I.Q. test to test their
	intelligence. There are two married couples in the family and three females in total. G, a female, is the most
	intelligent. B, the father of E, is more intelligent than his son. C has one son and one daughter. She is more
	intelligent than her husband. The father of B is more intelligent than B himself. E, the grandson of F, is the least
	intelligent. F, the grandfather, is the second most intelligent in the family. The mother of B is less intelligent than
	B. None among the married topped the I.Q. test. The grandmother of G has two sons, one of whom is D, who is
	more intelligent than her brother but less intelligent than his wife. Nobody is a widow or a widower in the family
	Who among them is a married couple?
Alt1	
Alt2	
Alt3	
Alt4	AD
22	Militaria da la cara gunda gunda gunda di distributa di C. Zundo lungua di C. Zundo lungu
28	What is the least number which when divided by 5, 6, 7 and 8 leaves a remainder 3, but when divided by 9 leaves
a 1 · -	no remainder?
	1683
	3363
	1453
Alt4	1324

29	Four girls are sitting on a bench to be photographed. Shikha is to the left of Reena. Manju is to the right of
23	Reena. Rita is between Reena and Manju. Who would be second from the left in the photograph?
Alt1	Rita
	Reena
	Manju
Alt4	Shikha
30	Which is the necessary part of the BOOK?
Alt1	Pages
Alt2	Pictures
Alt3	Learning
Alt4	Fiction
31	The sum of the incomes of A and B is more than that of C and D taken together. The sum of the incomes of A a C is the same as that of B and D taken together. Moreover, A earns half as much as the sum of the incomes of I and D.  If A's income be Rs. 80,000 per annum and the difference between the incomes of B and D be the same as A's income, B's income is:-
Alt1	Rs. 80,000
Alt2	Rs. 40,000
Alt3	Rs. 60,000
Alt4	Rs. 1,20,000
32	To resolve the problem of transmission of clear text passwords, we can first encrypt the password on the user's computer and then send it to the server for authentication. This means that we must provide for some sort of cryptographic functionality on the user's computer. In fact, this functionality is needed even in the approach of encrypting the random number with the message digest of the user's password. This is not a problem in the ca of client-server applications, where the client is capable of performing computations anyway. However, in the case of Internet applications, where the client is a Web browser, which does not have any special programming capabilities, this can be a problem. Consequently, we must resort to technologies such as Secure Socket Layer (SSL). That is, a secure SSL connection must be established between the client and the server, which would involve the step wherein the client verifies the server's authenticity based on the server's digital certificate. Aft this, all the communication between the client and the server will be encrypted using SSL, so the password need not have any application-level protection mechanisms now. SSL would perform the required encryption operations.
A 11 4	Based on the above passage, we understand that SSL:-
	Eliminates the need for password encryption  Is a secure connection between the client and server
	Is a secure connection between the client and server  Is a secure layer between the client and server
	as a second layer nerween the chem and server
Alt3	
Alt3	Adds an additional overhead between the client and server
Alt3	

	East of your initial position
	North of your initial position
Alt4	12m from your initial position
34	Which of the following are not statements?
	i. Three plus four is eight
	ii. The sun is a planet
	iii. Switch on the light
	iv. This statement is true.
Alt1	i, ii
Alt2	i, iv
Alt3	iii, iv
Alt4	ii, iii
35	At a game of billiards, A can give B 15 points in 60 and A can give C 20 points in 60. How many points can B give C
	in a game of 90?
Alt1	12 points
Alt2	22 points
Alt3	10 points
Alt4	20 points
36	The product of two numbers is 9375 and the quotient, when the larger one is divided by the smaller, is 15. The
	sum of the numbers is:-
Alt1	385
Alt2	380
Alt3	425
Alt4	400
37	What is the antonym of Comical?
Alt1	Crazy
Alt2	Wacky
Alt3	Serious
Alt4	Humorous
38	Arrange the words given below in a meaningful sequence.
	1.Poverty 2. Unemployment 3. Death 4. Population 5. Disease
Alt1	41235
Alt2	12345
Alt3	42153
Alt4	23415
39	Choose the correct meaning of the idiom.
Alt1	To amend some problems

Alt2 To destroy something

41.0	<del>-</del>
	To find a reason for quarrel
Alt4	To criticize someone
40	
	SQL stands for:-
	Structured Query Language
	Simple Query Language
	Standard Query Language
Alt4	Single Query Language
4.4	TI
	The product of two numbers is 120 and the sum of their squares is 289. The sum of the number is:-
Alt1	
Alt2	
Alt3	
Alt4	20
	Java programs are compiled into:-
	Bit Code
Alt2	Byte Code
Alt3	JCode
Alt4	C-Code
43	In the following sentence suggest the suitable alternative for the italicised phrase. In case no improvement is
	needed mark "no improvement"
	Whenever the two sisters go out for shopping, they take their pet dog with them.
Alt1	go out shopping
	go out to shopping
	go out on shopping
	no improvement
44	In order to help the company attain its goal of enhancing profit, all the employees
	voluntarily offered to render additional services in lieu of nothing
	voluntarily offered to work overtime with lucrative compensation
	appealed the management to implement new welfare schemes
	urged the management to grant paid leave
7110-1	arged the management to grain para leave
45	What is the least perfect square which is divisible by each of 21, 36 and 66?
	214434
	231444
	213444
	214344
AIL4	41TUTT
16	FTP stands for:-
	File Transfer Protocol
	File Transfer Protocol  File Transfer Point
	File Type Print
Alt4	Format Type Print

47	Find the Odd one.
Alt1	sheep:bleat
Alt2	horse:neigh
Alt3	owl:hoot
Alt4	ass:grunt
48	The difference between a two-digit number and the number obtained by interchanging the positions of its digits
	is 36. What is the difference between the two digits of that number?
Alt1	4
Alt2	6
Alt3	5
Alt4	3
49	Which of the following is NOT a search engine?
Alt1	Yahoo
Alt2	Motorola
Alt3	Google
Alt4	Bing
50	of old paintings is a job for experts.
Alt1	Retrieval
Alt2	Restoration
	Renovation
Alt4	Resurrection
51	There is a group of seven persons in a family, A, B, C, D, E, F and G. They all appeared in an I.Q. test to test their intelligence. There are two married couples in the family and three females in total. G, a female, is the most intelligent. B, the father of E, is more intelligent than his son. C has one son and one daughter. She is more intelligent than her husband. The father of B is more intelligent than B himself. E, the grandson of F, is the least intelligent. F, the grandfather, is the second most intelligent in the family. The mother of B is less intelligent than B. None among the married topped the I.Q. test. The grandmother of G has two sons, one of whom is D, who is more intelligent than her brother but less intelligent than his wife. Nobody is a widow or a widower in the family Who among the following is not the same generation as others?
Alt1	A
Alt2	
Alt3	
Alt4	D
	Convoy:Ships ::Deputation:?
	Politicians
	Writers
	Representatives
Alt4	Voters

53	Cube is related to square in the same way as square is related to:-
Alt1	Point
Alt2	Triangle
Alt3	Plane
Alt4	Line
•	
54	The SSL stands for:-
Alt1	System Socket Level
	System Single Level
	Secure Sockets Layer
Alt4	Secure System Level
	·
55	Identify the odd item.
	Python
	Oracle
Alt3	
Alt4	Java
56	Which number should come next in this series?
	12, 38, 116, 350, 1052, ?
	3112
Alt2	3216
Alt3	3158
Alt4	3253
57	An alternative to MS office is:-
Alt1	Libre office
Alt2	S office
Alt3	M office
Alt4	SM office
58	Which of the following is NOT a web browser?
Alt1	Edge
Alt2	Firefox
Alt3	KDE
Alt4	Opera
59	Pick out the most effective word from the options for the following:
	We shall not be able to use your ability in court unless we can find someone to to statements.
Alt1	avouch
Alt2	corroborate
Alt3	approve
Alt4	verify

	Find the correctly spelt word.
	Hinderence
	Hindrence
	Hindrance
Alt4	Hinderance
	Identify the odd item.
	Jellybean
	Kitkat
	Marshmallow
Alt4	Coolkit
	If you behave strangely, nobody will get with you.
	through
	along
Alt3	about
Alt4	on
63	Spot the erroneous part of the sentence "An Indian ship laden with merchandise got drowned in the Pacific":-
	got drowned
	in the Pacific
	An Indian Ship
Alt4	Laden with merchandise
64	The sum of the squares of three numbers is 138, while the sum of their products taken two at a time is 131.
	Their sum is:-
Alt1	
Alt2	
Alt3	
Alt4	20
<u> </u>	
65	Find a positive number which when increased by 17 is equal to 60 times the reciprocal of the number.
	"WE"
Alt1	
Alt2	
Alt3	
Alt4	10
	Light : Sun : : Heat : ?
	Electricity
	Star
	Moon
Alt4	Fire

To resolve the problem of transmission of clear text passwords, we can first encrypt the password on the user's computer and then send it to the server for authentication. This means that we must provide for some sort of cryptographic functionality on the user's computer. In fact, this functionality is needed even in the approach of encrypting the random number with the message digest of the user's password. This is not a problem in the case of client-server applications, where the client is capable of performing computations anyway. However, in the case of Internet applications, where the client is a Web browser, which does not have any special programming capabilities, this can be a problem. Consequently, we must resort to technologies such as Secure Socket Layer (SSL). That is, a secure SSL connection must be established between the client and the server, which would involve the step wherein the client verifies the server's authenticity based on the server's digital certificate. After this, all the communication between the client and the server will be encrypted using SSL, so the password need not have any application-level protection mechanisms now. SSL would perform the required encryption operations.

The passages emphasizes which of the following:-

Alt1 Passwords are only sent from user's computer to the server

Alt2 Passwords must be used only for server authentication

Alt3 Password must be encrypted before transmission to server for authentication

Alt4 Only encrypted Password must be used for authentication with the server

68 Yard is to inch as quart is to:-	
-------------------------------------	--

Alt1 gallon

Alt2 Ounce

Alt3 liquid

Alt4 milk

To resolve the problem of transmission of clear text passwords, we can first encrypt the password on the user's computer and then send it to the server for authentication. This means that we must provide for some sort of cryptographic functionality on the user's computer. In fact, this functionality is needed even in the approach of encrypting the random number with the message digest of the user's password. This is not a problem in the case of client-server applications, where the client is capable of performing computations anyway. However, in the case of Internet applications, where the client is a Web browser, which does not have any special programming capabilities, this can be a problem. Consequently, we must resort to technologies such as Secure Socket Layer (SSL). That is, a secure SSL connection must be established between the client and the server, which would involve the step wherein the client verifies the server's authenticity based on the server's digital certificate. After this, all the communication between the client and the server will be encrypted using SSL, so the password need not have any application-level protection mechanisms now. SSL would perform the required encryption operations.

Based on the above passage, we understand that:-

Alt1 Cryptographic functionalities are required in the user's computer only when we use a Web browser

Alt2 Cryptographic functionalities are not required if we use client-server applications

Alt3 Cryptographic functionalities are required for encrypting user passwords

Alt4 Cryptographic functionalities are required in the user's computer

70	Two cards are drawn together from a pack of 52 cards. The probability that one is a spade and one is a heart, is
Alt1	13/102
	29/34
	3/20
	47/102
71	A man is 24 years older than his son. In two years, his age will be twice the age of his son. What is the present age of his son?
Δlt1	23 years
	25 years
	24 years
	22 years
7110-1	22 years
72	Two dice are thrown together .What is the probability that the sum of the number on the two faces is divisible
72	by 4 or 6?
Δlt1	8/18
	4/18
	7/18
	5/18
73	Thick is related to Thin in the same way as Idle is related to:-
	Industrious
Alt2	Activity
	Buisiness
Alt4	Virtuous
74	The compiler used to compile the C programs in Unix environments is called:-
Alt1	
Alt2	асс
Alt3	gcc
Alt4	
75	Timing attacks relate to public-key algorithm. However, the issue may also be relevant for symmetric ciphers. In
	essence, a timing attack is one which information about the key or the plaintext is obtained by observing how
	long it takes a given implementation to perform decryptions on various cipher texts. A timing attack exploits the
	fact that an encryption or decryption algorithm often takes slightly different amounts of time on different inputs.
	This is a long way from knowing the actual key, but it is an intriguing first step. Data Encryption Standard (DES)
	algorithm appears fairly resistant to a successful timing attack but some avenues could be explored. Although
	this is an interesting line of attack, it so far appears unlikely that this technique will ever be successful against
	DES or more powerful symmetric ciphers such as triple DES and the Advanced Encryption Standard algorithm
	Which is most relevant understanding about Timing Attack from the last line of the text?
ΛI+1	Can never be successful on DES algorithm

Alt2 Can be successful on DES algorithm but it needs further work

Alt3	Not possible to perform a timing attack easily on DES
Alt4	Can be successful on DES later but not on more powerful symmetric ciphers
76	Commonly available RPM for hard disk is:-
Alt1	5400
Alt2	6000
Alt3	2300

There is a group of seven persons in a family, A, B, C, D, E, F and G. They all appeared in an I.Q. test to test their intelligence. There are two married couples in the family and three females in total. G, a female, is the most intelligent. B, the father of E, is more intelligent than his son. C has one son and one daughter. She is more intelligent than her husband. The father of B is more intelligent than B himself. E, the grandson of F, is the least intelligent. F, the grandfather, is the second most intelligent in the family. The mother of B is less intelligent than B. None among the married topped the I.Q. test. The grandmother of G has two sons, one of whom is D, who is more intelligent than her brother but less intelligent than his wife. Nobody is a widow or a widower in the family

How is G related to D?

Alt4 1500

Alt1	Daughter
Alt2	Daughter - in- law
Alt3	Niece
Alt4	Cousin

The Enigma machine is a mechanical tool used by the Germans in World War II to scramble messages and prevent the enemy from understanding them. Enigma was based on revolving wheels, or rotors, that were wired together and connected to a typewriter keyboard. There were so many ways to encrypt a message that even if 1,000 analysts tried four different ways each minute, all day, every day, it would have taken the team 1.8 billion years to test them all.

So, how did the Allies break the encryption? First, they made use of the likely chatter over the wires about each day's events. By guessing that the Germans would be discussing certain places or issues, the Allies found sections of scrambled text that they could relate to the original messages, or cleartext. Next, they concentrated on Luftwaffe messages. Counting on the likelihood that the Luftwaffe signalmen were not as well trained as those in the Army or Navy, the Allies watched for slip-ups that increased the odds of understanding the encrypted messages. For instance, Luftwaffe signalment often used 'a girlfriend's name for a key setting or beginning a second message with the same setting as that left at the ending of the first'. Such knowledge enabled the Allies to determine some of the Luftwaffe's plans during the Battle of Britain. Thus, sophisticated technology can be trumped when control protocols are not followed carefully and completely.

Δl+1	The	encryption	was	not	strong
MILT.	i i i i e i		was	HUL	SHUHE

Alt2 The Allies used intelligent techniques to break the message

Alt3 The encryption process was not followed correctly

Alt4 The signalmen were not trained in using the tool

79 Complete the following proverbs: A little knowledge is a \_\_\_\_\_thing.

Alt1	good
Alt2	sweet
Alt3	dangerous
Alt4	profitable

Timing attacks relate to public-key algorithm. However, the issue may also be relevant for symmetric ciphers. In essence, a timing attack is one which information about the key or the plaintext is obtained by observing how long it takes a given implementation to perform decryptions on various cipher texts. A timing attack exploits the fact that an encryption or decryption algorithm often takes slightly different amounts of time on different inputs. This is a long way from knowing the actual key, but it is an intriguing first step. Data Encryption Standard (DES) algorithm appears fairly resistant to a successful timing attack but some avenues could be explored. Although this is an interesting line of attack, it so far appears unlikely that this technique will ever be successful against DES or more powerful symmetric ciphers such as triple DES and the Advanced Encryption Standard algorithm

Which of the following is true based on the above passage?

Alt1 Timing attack relates to both symmetric ciphers and public-key algorithms

Alt2 Timing attack is directly relevant to public-key algorithms but indirectly relevant to symmetric ciphers

Alt3 Timing attack relates to public-key algorithms only

Alt4 Public Key ciphers and Symmetric ciphers can be subject to timing attacks

Enigma machine is a mechanical tool used by the Germans in World War II to scramble messages and prevent the enemy from understanding them. Enigma was based on revolving wheels, or rotors, that were wired together and connected to a typewriter keyboard. There were so many ways to encrypt a message that even if 1,000 analysts tried four different ways each minute, all day, every day, it would have taken the team 1.8 billion years to test them all.

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Alt1 Even 1000 analysts cannot test all the possible encryptions

Alt2 It would have taken 1000 analysts to find all the possible encryptions for a message

Alt3 It would have taken 1000 analysts 1.8 billion years to break the encryption

Alt4 Even if 1000 analysts tried four different ways each minute, all day, every day, they cannot break the encryption

82	Which of the following is a cloud based storage provider?
Alt1	Filebox
Alt2	Dropbox

Alt3	Firefox
Alt4	Dbox
83	The calendar for the year 2007 will be the same for the year:-
Alt1	2016
Alt2	2018
Alt3	2014
Alt4	2017
84	The popularly used file system in windows operating system is:-
Alt1	NTFS
Alt2	Ext4
Alt3	Loader
Alt4	Ext3
85	If LIGHT is coded as GILTH, find the code for RAINY.
Alt1	NAIRY
Alt2	IARYN
Alt3	ARINY
Alt4	RINAY
86	Timing attacks relate to public-key algorithm. However, the issue may also be relevant for symmetric ciphers. In
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	this is an interesting line of attack, it so far appears unlikely that this technique will ever be successful against
	DES or more powerful symmetric ciphers such as triple DES and the Advanced Encryption Standard algorithm
	Which of the following is true based on the above passage?
Alt1	Timing attack is not help to obtain the actual key
	Timing attack can help to obtain the actual key eventually
	Timing attack and followed by many other subsequent attacks can help to obtain the actual key
	Timing attack is the first step towards finding the actual key
87	I saw a of cows in the field.
	Herd
	Group
	Swarm
	Flock
88	If a number is multiplied by 22 and the same number is added to it then we get a number that is half the square
30	of that number. Find the number.
	40

Alt2	
Alt3	30
Alt4	46
89	Timing attacks relate to public-key algorithm. However, the issue may also be relevant for symmetric ciphers. In essence, a timing attack is one which information about the key or the plaintext is obtained by observing how long it takes a given implementation to perform decryptions on various cipher texts. A timing attack exploits the fact that an encryption or decryption algorithm often takes slightly different amounts of time on different inputs. This is a long way from knowing the actual key, but it is an intriguing first step. Data Encryption Standard (DES) algorithm appears fairly resistant to a successful timing attack but some avenues could be explored. Although this is an interesting line of attack, it so far appears unlikely that this technique will ever be successful against DES or more powerful symmetric ciphers such as triple DES and the Advanced Encryption Standard algorithm
	Which of the following is true based on the above passage?
Alt1	There are multiple types of timing attacks having multiple variants
Alt2	There are multiple types of timing attacks
Alt3	A single type of attack having multiple variants
Alt4	A single type of attack
90	Find the minimum number of straight lines required to make the given figure.
Alt1	14
Alt2	19
Alt3	17
Alt4	15
91	WiFi stands for:-
Alt1	Wireless Fidelity
Alt2	Wireless Fire
Alt3	Wireless Fix
Alt4	Wireless Fiction

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Alt1 Some of Luftwaffe's messages were broken

Alt2 Luftwaffe's messages were easy to break

Alt3 Luftwaffe's messages were completely broken by Allies

Alt4 Luftwaffe's messages were the only ones broken by Allies

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Alt1 It is a type of encryption of a message

Alt2 It is a way of rendering a message incomprehensible

Alt3 It is the same as encrypting the message

Alt4 Encryption renders a message incomprehensible and scrambling is a type of encryption

	To resolve the problem of transmission of clear text passwords, we can first encrypt the password on the user's computer and then send it to the server for authentication. This means that we must provide for some sort of cryptographic functionality on the user's computer. In fact, this functionality is needed even in the approach of encrypting the random number with the message digest of the user's password. This is not a problem in the case of client-server applications, where the client is capable of performing computations anyway. However, in the case of Internet applications, where the client is a Web browser, which does not have any special programming capabilities, this can be a problem. Consequently, we must resort to technologies such as Secure Socket Layer (SSL). That is, a secure SSL connection must be established between the client and the server, which would involve the step wherein the client verifies the server's authenticity based on the server's digital certificate. After this, all the communication between the client and the server will be encrypted using SSL, so the password need not have any application-level protection mechanisms now. SSL would perform the required encryption operations.
	Based on the above passage, we understand that SSL is:-
A I+1	An Francisco technology
	An Encryption technology
	An authentication technology and encryption is a part of it  An encryption technology and authentication is a part of it
	An Authentication technology
All4	All Authentication technology
95	In how many ways the letters of word 'LEADER' can be arranged?
Alt1	
Alt2	
Alt3	
Alt4	
AIL4	480
96	Every computer connected to the internet has a:-
Alt1	
Alt2	
	Web site
	IP address
All4	ir dudiess
07	Android is a:-
	Mobile Operating System
	Framework
	Package
	Programming Language
Alt	Trogramming Lunguage
98	Which of the following is an open source operating system?
	Windows 8.1
Alt2	
	Linux
	Windows 10
,	
99	CMM, EOO, GQQ, , KUU.
Alt1	
Alt2	

Alt3	ιπ
Alt4	ISS

	What is the number of triangles that can be formed whose vertices are the vertices of an octagon but have only one side common with that of octagon?
Alt1	· ·
Alt2	16
Alt3	24
Alt4	64



# 352 PU M C A Computer Applications

# 1 of 100

102 PU\_2016\_352\_RQ

In the question there is a certain relation between the given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same kind of relation with this word as the words of given pair bear

Wimbledon Trophy: Tennis :: Walkers Cup : ?

Polo
Hockey
Wrestling
Golf

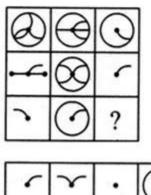
2 of 100
144 PU\_2016\_352\_RQ
4, 23, 60, 121, ........

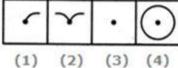
154
352
212
221

#### 3 of 100

147 PU\_2016\_352\_RQ

Select a suitable figure from the four alternatives that would complete the figure matrix.





0 /

1
° 3
4 of 100 100 PU_2016_352_RQ In the question there is a certain relation between the given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same kind of relation with this word as the words of given pair bear.
Poodle: Dog :: Moose : ?
Fowl
Deer
Duck
Donkey
<b>5 of 100</b> 101 PU_2016_352_RQ In the question there is a certain relation between the given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same kind of relation with this word as the words of given pair bear.
Tea: Cup :: Tobacco : ?
Leaves
Toxin
Hookah
Cheroot
6 of 100 128 PU_2016_352_RQ From amongst the four alternatives, choose the best answer.
If PAINT is coded as 74128 and EXCEL is coded as 93596, then how would you encode ACCEPT?
<sup>©</sup> 735961
<sup>©</sup> 455978
<sup>©</sup> 547978
<sup>C</sup> 554978
<b>7 of 100</b> 146 PU_2016_352_RQ

Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures:  (A) (B) (C) (D) (E) (1) (2) (3) (4) (5)
° 3 ° 1 ° 4 ° 2
8 of 100 127 PU_2016_352_RQ From amongst the four alternatives, choose the best answer.
If in a certain language, MACHINE is coded as LBBIHOD, Which word would be coded as SLTMFNB?  TMITNGOC  RMSNEOA  TKULGMC  RKSLEMA
9 of 100  143 PU_2016_352_RQ  Five boys took part in a race. Raj finished before Mohit but behind Gaurav. Ashish finished before Sanchi but behind Mohit. Who won the race?  Mohit Raj Ashish Gaurav
10 of 100 142 PU_2016_352_RQ There are six cities A, B, C, D, E and F. A is not a hill station. B and E are not historical places. D is not an industrial city. A and D are not historical cities. A and B are not alike.
Which two cities are neither historical places nor industrial centres?  A and B  F and C

B and D
D and E
11 of 100 104 PU_2016_352_RQ In the question there is a certain relation between the given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same kind of relation with this word as the words of given pair bear
Scissors : Cloth :: Scythe : ?
Paper
Steel
Grass
© Wood
12 of 100 110 PU_2016_352_RQ From among the four alternative, choose the best answer whose meaning is closest to the word in question.
GAINSAY
Suggestion
Proposal
C Advantage
Contradict
13 of 100 145 PU_2016_352_RQ
Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.
Problem Figures: Answer Figures:
(A) (B) (C) (D) (E) (1) (2) (3) (4) (5)
$\circ$ 3

° 1
14 of 100 108 PU_2016_352_RQ From among the four alternative, choose the best answer whose meaning is closest to the word in question.
ACQUAINT  Withhold  Conceal  Risky  Familiarise
15 of 100 129 PU_2016_352_RQ From amongst the four alternatives, choose the best answer.
If white is called blue, blue is called red, red is called yellow, yellow is called green, green is called black, black is called violet and violet is called orange, what would be the colour of the human blood?  Green  Red  violet  Yellow
124 PU_2016_352_RQ Fill in the blanks. From amongst the four alternatives, choose the best answer.
He quickly glanced the book to find what it said about the Indian economy.  at  in  through  to
17 of 100 130 PU_2016_352_RQ From amongst the four alternatives, choose the best answer.
If 'ski rps tri' stands for 'nice Sunday morning', 'teh sti rps' stands for 'every Tuesday morning' and 'ski ptr qlm' stands for 'nice market place'. What would 'Sunday' stand for?  qlm  Ski

° rps ° tri
18 of 100 123 PU_2016_352_RQ Fill in the blanks. From amongst the four alternatives, choose the best answer.
No exact statistics exist on the killing of innocent animals, but it is an important factor in the deaths of bears, foxes and other animals.  comradely.contentiously unctuous.tenuously inadvertent.undoubtedly blithesome.iridescently
<b>19 of 100</b> 149 PU_2016_352_RQ
Choose the set of figures which follows the given rule.  Rule: Any figure can be traced by a single unbroken line without retracting.  (1)
C 3 C 1 C 4 C 2 20 of 100 107 PU_2016_352_RQ

From among the four alternative, choose the best answer whose meaning is closest to the word in question.
CORPULENT  Gaunt  Lean  Obese  Emaciated  21 of 100  106 PU_2016_352_RQ
From among the four alternative, choose the best answer whose meaning is closest to the word in question.
CANNY  Stout  Clever  Obstinate  Handsome
22 of 100 103 PU_2016_352_RQ In the question there is a certain relation between the given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same kind of relation with this word as the words of given pair bear
Painting: Artist :: Symphony : ?  Poet  Essayist  Novelist  Composer
23 of 100 126 PU_2016_352_RQ Fill in the blanks. From amongst the four alternatives, choose the best answer.
The counsel urged the court to down the obnoxious law.  strike  enforce  cancel  enact
24 of 100

109 PU_2016_352_RQ From among the four alternative, choose the best answer whose meaning is closest to the word in question.
JAUNT  Short drive  Solitary  Refuse Irresistible force
141 PU_2016_352_RQ There are six cities A, B, C, D, E and F. A is not a hill station. B and E are not historical places. D is not an industrial city. A and D are not historical cities. A and B are not alike.
Which city is a hill station and an industrial centre but not a historical place?  F  B  A
26 of 100 121 PU_2016_352_RQ From amongst the four alternatives, choose the best answer whose meaning is appropriately opposite to the meaning of the words in questions.
HIRSUTE  Bald  Scaly quite  Erudite
27 of 100 122 PU_2016_352_RQ From amongst the four alternatives, choose the best answer whose meaning is appropriately opposite to the meaning of the words in questions.
SACROSANCT  Unholy Irreverent  Irreligious  Unethical

# 105 PU\_2016\_352\_RQ

In the question there is a certain relation between the given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same kind of relation with this word as the words of given pair bear

Snowfall: Precipitation:: Grotto:?  Cave Fort Throat Castle
29 of 100 148 PU_2016_352_RQ
Choose the figure which is different from the rest.  (1) (2) (3) (4) (5)
° 4 ° 2 ° 3 ° 1
30 of 100 125 PU_2016_352_RQ Fill in the blanks. From amongst the four alternatives, choose the best answer.
The local official the Minister of the situation.  told  explained  apprised  warned
31 of 100 160 PU_2016_352_RQ Two boats, travelling at 5 and 10 kms per hour, head directly towards each other. They begin at a distance of 20 kms from each other. How far apart are they (in kms) one minute before they collide?  1/3.

° 1/6.	
° 1/2.	
32 of 100 172 PU_2016_352_RQ In an office there are 60% female employees. 50% of all the male employees are computer literate. If there are total 62% employees computer literate out of the total 1600 employees, then the no. of female employees who are computer literate:-	
690 C 672	
° 960	
can't be determined	
33 of 100 166 PU_2016_352_RQ Ten years ago, the ages of the members of a joint family of eight people added up to 231 yr. Three years later, one member died at the age of 60 yr and a child was born during the same year, After another three years, one more member died, again at 60,and a child was born during the same year. The current average age of this eight member joint family is nearest to:-	
<sup>C</sup> 24yr	
C <sub>22yr</sub>	
<sup>C</sup> 21yr	
C <sub>23yr</sub>	
34 of 100 170 PU_2016_352_RQ There are twice the number of two wheelers as there are three wheelers and the number of 4 wheelers are equal to the number of two wheelers. The average number of wheel per vehicle is:-  3  4  none of these	
35 of 100 176 PU_2016_352_RQ David sets his watch at 6:10 am on Sunday, which gains 12 minutes in a day. On Wednesday if this watch is showing 2:50 pm. What is the correct time?	
1:50 pm	
2:30 pm	
3:30 pm	
2:10 pm	

A gr	PU_2016_352_RQ roup of 630 children is arranges in rows for a group photograph session. Each row contains three er children than the row in front of it. What number of rows is not possible?
0	3
0	4
0	5
0	6
162	PU_2016_352_RQ rightmost non-zero of the number 30 <sup>2720</sup> is:- 7 3 9
178 Mall	PU_2016_352_RQ ah can row 40 km upstream and 55 km downstream in 13 hr and 30 km upstream and 44 km instream in 10 hours. What is the speed of Mallah in still water?  3 km/hr 6 km/hr 12 km/hr 8 km/hr
169 Rah B. H sout Nort	PU_2016_352_RQ im plans to drive from city A to station c, at the speed of 70km/hr, to catch a train arriving there from le must reach C at least 15 min before the arrival of the train. The train leaves B, located 500 km th of A, at 8:00 AM and travels at a speed of 50 km/hr. it is known that C is located between West and th-west of B, with BC at 60 to AB. Also, C is located between south and south-west of A with AC at 30 B. The latest time by which Rahim must leave A and still catch train is closest to:-
0	6:30 am
0	6:15 am
0	7:00 am
0	6:45 am

174 PU\_2016\_352\_RQ

40 of 100

36 of 100

A, B and C can complete a piece of work in 15, 30 and 40 days respectively. They started the work together and A left 2 days before the completion of the work and B left 4 days before the completion of the work. In how many days was the work completed?

- none of these

198 PU\_2016\_352\_RQ Java byte code is called as:-

- Source code
- Object Code
- Machine code
- Java Virtual Machine code

# 42 of 100

180 PU\_2016\_352\_RQ If  $\cos B = \sin A / 2\sin C$ , find the nature of triangle:-

- scalene
- Isosceles
- can't be determined
- none of these

#### 43 of 100

188 PU\_2016\_352\_RQ

The following is not a file access method:-

- Semi Random
- Sequential
- Dynamic
- Random

# 44 of 100

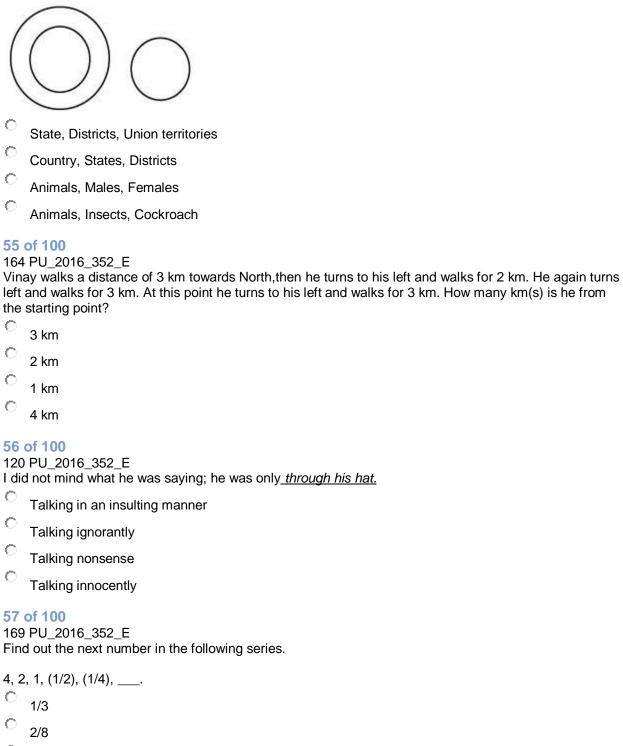
182 PU\_2016\_352\_RQ If x + y = 25 and  $x^2 y^3 + y^2 x^3 = 25$ , what is the value of xy?

- 5

196	of 100 5 PU_2016_352_RQ 6QL which command is used to enable/disable all triggers on a table?		
0	MODIFY TRIGGERS		
0	ALTER TRIGGERS		
0	DO TRIGGERS		
0	ALTER TABLE		
186 In S	of 100 5 PU_2016_352_RQ 6QL which command is used to change tables storage characteristics:-		
0	CHANGE TABLE		
0	MODIFY KEY		
0	ALTER TABLE		
0	MODIFY TABLE		
184 A,B	of 100 PPU_2016_352_RQ and C shoot to hit a target. If A hits the target 4 times in 5 trials, B hits it 3 times in 4 trials and C hits it mes in 3 trials. What is the probability that the target is hit by atleast 2 persons?		
0	3/4		
0	1/9		
48 of 100 192 PU_2016_352_RQ A good query system:-			
0	Can accept English Language commands `		
0	Can be accessed only by data processing professionals		
0	Should not have user interface		
0	Allows non-programmer to access information stored in a database		
190 In a	of 100 PU_2016_352_RQ a relational schema, each triple is divided into fields called:-		
0	Domains		
0	Queries		
O	Sub domain		

0	Relations
194 The	of 100 PU_2016_352_RQ relational model uses some unfamiliar terminology. A tuple is equivalent to a:- Record
0	File Database
0	Field
188	of 100 PU_2016_352_E uary 1, 2007 was Monday. What day of the week lies on Jan. 1, 2008?  Monday Thursday Wednesday Tuesday
173	of 100 PU_2016_352_E Open Source Equivalent of Microsoft Powerpoint is:- Impress Open Power Switch Calc
197 Two eve	of 100 PU_2016_352_E o dice are thrown simultaneously. What is the probability of getting two numbers whose product is n?
0	0.24
0	0.35 0.45
0	0.75
	of 100 PU_2016_352_E

Which of the following sets is best represented in the given diagram?

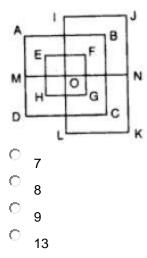


58 of 100

1/16 1/8

# 144 PU\_2016\_352\_E

Count the number of lines in the given figure



#### 59 of 100

#### 136 PU 2016 352 E

The sum of the incomes of A and B is more than that of C and D taken together. The sum of the incomes of A and C is the same as that of B and D taken together. Moreover, A earns half as much as the sum of the incomes of B and D.

Wh	ose income is the highest?
0	С
0	В
0	D
0	Α

#### 60 of 100

180 PU\_2016\_352\_E

A starts a business with a capital of Rs. 85,000. B joins in the business with Rs.42500 after some time. For how much period does B join, if the profits at the end of the year are divided in the ratio of 3: 1?

0	6 months
0	7 months
0	8 months
0	5 months

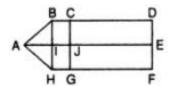
#### 61 of 100

#### 172 PU 2016 352 E

- I. The government has decided to make all the information related to primary education available to the general public.
- II. In the past, the general public did not have access to all these information related to primary education.
- Statement II is the cause and statement I is its effect
- Both the statements I and II are independent causes

0	Both the statements I and II are effects of independent causes
0	Statement I is the cause and statement II is its effect
189 The	of 100 PU_2016_352_E ere are 5 yellow, 4 green and 3 black balls in a bag. All the 12 balls are drawn one by one and anged in a row. Find out the number of different arrangements possible.
0	27720
0	25630
0	21220
	24630
132	of 100 PPU_2016_352_E pose the correct meaning of the idiom .
	Drive Home
0	Back to original position
0	To find one's roots.
0	To emphasize
0	To return to the place of rest
192	of 100 PU_2016_352_E d the odd man out. 187, 264, 386, 473, 682, 781:-
0	187
0	473
0	386
168 Ser give	of 100 BPU_2016_352_E Interce: "The clothes were neatly hanged on the cloth line". Find if there is any grammatical error in the sentence. If there is any error, it will be only one part of the sentence. The number or alphabet of a part is your answer. (Disregard punctuation errors if any)
0	The clothes
0	were neatly
0	hanged
0	on the cloth line.
	of 100 3 PU 2016 352 E

Count the number of rectangles in the following figure:-



О,

െ

O 6

О,

#### 67 of 100

196 PU\_2016\_352\_E

A train 360 m long runs with a speed of 45 km/hr. What time will it take to pass a platform of 140 m long?

38 sec

42 sec

39 sec

O 40 sec

#### 68 of 100

117 PU\_2016\_352\_E

Find the word with different meaning from the following group of words:-

Sustain, Maintain, Keep, Block, Uphold, Bear

Block

Sustain

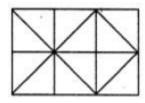
Uphold

Maintain

# 69 of 100

152 PU\_2016\_352\_E

How many squares are there in the following figure?



U c

ບ 8

Ο,

133 PU\_2016\_352\_E Poles:Magnet :: ?:Battery

Terminals

Power

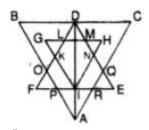
Cells

Energy

# 71 of 100

148 PU\_2016\_352\_E

Find the minimum number of straight lines required to make the given figure.



ີ 27

<sup>U</sup> 15

U 17

<sup>©</sup> 19

# 72 of 100

193 PU\_2016\_352\_E

If  $\log 27 = 1.431$ , then the value of  $\log 9$  is:-

0.934

0.944

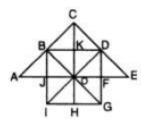
0.954

0.924

# 73 of 100

149 PU\_2016\_352\_E

How many triangles and squares are in the following figure?



18, 16

15, 21

26, 6

14, 20

# 74 of 100

137 PU\_2016\_352\_E

The sum of the incomes of A and B is more than that of C and D taken together. The sum of the incomes of A and C is the same as that of B and D taken together. Moreover, A earns half as much as the sum of the incomes of B and D.

Which of the following statements is not correct?

C earns more than D

B earns more than C

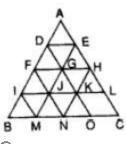
A earns more than B

B earns more than D

#### 75 of 100

153 PU\_2016\_352\_E

Count the number of lines in the following figure:-



O 15

ິ 17

0 4

U 11

#### 76 of 100

165 PU\_2016\_352\_E

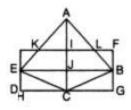
Horse: Jockey:: Car:?
Chauffeur
Mechanic Mechanic
Steering
C Brake
77 of 100 124 PU_2016_352_E Find the word with different meaning from the following group of words.
Prohibit, Prevent, Block, Forbid, Allow, Deny
Block
Prevent
Deny
Allow
78 of 100 184 PU_2016_352_E A group of students decided to collect as many paise from each member of group as is the number of members. If the total collection amounts to Rs.98.01, the number of members in the group is
° 88
° 99
C 89
° 98
79 of 100 121 PU_2016_352_E What is the antonym of Acquit?  Reject Forgive Condemn Freedom
80 of 100 181 PU_2016_352_E Which number should come next in this series?
8, 24, 12, 36, 18, 54,?
° <sub>108</sub>
° <sub>72</sub>
° 27

0	68	
81 of 100 253 PU_2016_352_M USB stands for:-		
0	Universal Serial Block	
0	Universal System Bus	
0	Universal Serial Bus	
0	Unicode System Bus	
248	of 100 PU_2016_352_M e are some words translated from an artificial language.	
sre	ollesh means cloudburst nchochmeans pinball bosrench means ninepin	
	ich word could mean "cloud nine"?	
0	haplresbo	
0	haploch	
0	ochhapl	
0	leshsrench	
83 of 100 232 PU_2016_352_M Choose the sentence which is the direct speech equivalent of the given indirect speech.		
	a ordered her servant to bring her cup of tea.	
0	Sita said to her servant, "Bring me a cup of tea."	
0	Sita told her servant, "Bring her that cup of tea.	
0	Sita told her servant, "Bring a cup of tea."	
0	Sita said, "Bring me a cup of tea."	
225 Wh	of 100 5 PU_2016_352_M ich of the following is more close in meaning to " WARY"?	
0	Tired	
0	Distorted	
0	vigilant	
0	Sad	

56 PU_2016_352_M Vhich of the following is NOT a protocol?
НТТР
CPP
SMTP
IMAP
6 of 100 52 PU_2016_352_M and B started business with Rs. 3000 and Rs. 4000 respectively. After 8 months A withdraws Rs.1000 and B advances Rs. 1000 more. At the end of the year, their profits amounted to Rs. 630. Then the share f A is:-
230
240
210
200
7 of 100 28 PU_2016_352_M Correct the following sentence :- They examined both the samples very carefully but failed to detect any difference in them.  Some difference between any difference among
any difference between
some difference in
8 of 100 36 PU_2016_352_M I ow many rectangles are in the following figure?
15
10

#### 233 PU 2016 352 M

Count the number of triangles in the following figure



C 20

O 15

O 19

O 16

#### 90 of 100

### 249 PU 2016 352 M

If Anand is the son of Qedo, Qedo and Yogi are sisters, Zeni is the mother of Yogi, Peter is the son of Zeni, and then which of the following statements is correct?

Zeni and Yogi are parents of Anand

Peter and Yogi are sisters

Peter is the maternal uncle of Anand

Anand and Peter are cousins

#### 91 of 100

#### 260 PU 2016 352 D

The scientists took into account a number of very different concrete water management options, from low-tech solutions for smallholders to the industrial scale. Water harvesting by collecting excess rain run-off for instance in cisterns -- for supplementary irrigation during dry spells -- is a common traditional approach in some regions such as the Sahel region in Africa, but is under-used in many other semi-arid regions such as Asia and North America. Mulching is another option -- the soil gets covered either simply with crop residues left on the field, reducing evaporation, or with huge plastic sheets. Finally, a major contribution to the global potential is upgrading irrigation to drip systems.

It is especially under on-going climate change that water management becomes increasingly important to reduce food risks. The reason is that global warming is likely to increase droughts and change rainfall patterns, so water availability becomes even more critical than before. Assuming a moderate CO2 fertilization effect -- plants take up CO2 and could hence benefit from higher concentrations in the air, but the magnitude of this effect is still under debate -, the study shows that in most climate policy scenarios water management can counterbalance a large part of the regional warming impacts on farming. Yet if greenhouse-gas emissions from burning fossil fuels are not reduced at all, in a business-as-usual scenario, water management will clearly not suffice to outweigh the negative climate effects.

Which of the following gives the theme of the above passage?

Different approaches on Water Management

Need for Water Management

Study on Water Management

C Water management for agriculture

#### 92 of 100

286 PU\_2016\_352\_D

Zachary has invited his three buddies over to watch the basketball game on his wide-screen television. They are all hungry, but no one wants to leave to get food. Just as they are arguing about who should make the food run, a commercial comes on for a local pizze-ria that delivers. The phone number flashes on the screen briefly and they all try to remember it. By the time Zachary grabs a pen and paper, each of them recollects a different number.

#1: All of the men agree that the first three numbers are 995.

#2: Three of them agree that the fourth number is 9.

#3: Three agree that the fifth number is 2.

#4: Three agree that the sixth number is 6; three others agree that the seventh number is also 6.

Which of the numbers is most likely the telephone number of the pizzeria?

0	995-9336
0	995-9268
0	995-9266
0	995-8266

#### 93 of 100

282 PU\_2016\_352 D

Read the following information given below and answer the questions that follow:

A \* B means A and B are of the same age.

A B means B is younger than A.

A + B means A is younger than B.

Deven-Shashi\*Hemant is same as:-

- (1)Hemant+Shashi+Deven
- (2)Hemant-Shashi+Deven
- (3)Shashi\*Hemant+Deven

(2) and (3) only (1) only

(3) only

(1) and (2) only

# 94 of 100

278 PU 2016 352 D

In the following sentence, find the word which may be either inappropriate in the context of the sentence or wrongly spelt.

He who is indeed of the brotherhood does not voyage in quest of the picturesque but of certain jolly humors.

Humors

0	Voyage Picturesque		
0	Brotherhood		
275 An half left	of 100 5 PU_2016_352_D egg vendor sells half his eggs and half an egg to his first custormer. To the second customer, he sells of what he was left with and half an egg and to the thrid customer, he sells half of what he was then with half an egg. However he did not break any egg. If in the end, the vendor was left with three eggs, w many eggs did he have initially?  31		
0	26		
0	39		
264 The tech for in s suc crop con It is redupted the wat green	264 PU_2016_352_D  The scientists took into account a number of very different concrete water management options, from low-tech solutions for smallholders to the industrial scale. Water harvesting by collecting excess rain run-off for instance in cisterns for supplementary irrigation during dry spells is a common traditional approach in some regions such as the Sahel region in Africa, but is under-used in many other semi-arid regions such as Asia and North America. Mulching is another option the soil gets covered either simply with crop residues left on the field, reducing evaporation, or with huge plastic sheets. Finally, a major contribution to the global potential is upgrading irrigation to drip systems.  It is especially under on-going climate change that water management becomes increasingly important to reduce food risks. The reason is that global warming is likely to increase droughts and change rainfall patterns, so water availability becomes even more critical than before. Assuming a moderate CO2 fertilization effect plants take up CO2 and could hence benefit from higher concentrations in the air, but the magnitude of this effect is still under debate -, the study shows that in most climate policy scenarios water management can counterbalance a large part of the regional warming impacts on farming. Yet if greenhouse-gas emissions from burning fossil fuels are not reduced at all, in a business-as-usual scenario, water management will clearly not suffice to outweigh the negative climate effects.		
Wh	ich of the following is not in the scope of the passage?		
0	Water management		
0	Water Management in different parts of the world		
0	Climate changes		
	Global Warming		
283 Six sec Wh	97 of 100 283 PU_2016_352_D Six persons A,B,C,D,E and F are sitting in two rows, three in each. E is not at the end of any row. D is second to the left of F. C the neighbour of E, is sitting diagonally opposite to D. B is the neighbour of F. Which of the following are in one of the two rows?		
0	FBC		
O	CEB		

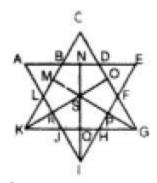
O DBF

O AEF

# 98 of 100

273 PU\_2016\_352\_D

How many triangles are in the following figure?



<sup>©</sup> 10

U 27

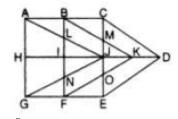
<sup>C</sup> 18

<sup>C</sup> 14

# 99 of 100

272 PU\_2016\_352\_D

How many triangles and parallelograms are in the following figure?



15, 21

18, 16

14, 20

19, 17

# 100 of 100

279 PU\_2016\_352\_D dionot means oak tree blyonot means oak leaf blycrin means maple leaf

Which word could mean "maple syrup"?

crinweel

- hupponot
- Patricrin
- C Blymuth

# ENTRANCE EXAMINATION FOR ADMISSION, MAY 2013. M.C.A. (MASTER OF COMPUTER APPLICATIONS)

**COURSE CODE: 352** 

negis	ter Number :			
•		·		
	*			Signature of the Invigilator (with date)
-			· · · · · · · · · · · · · · · · · · ·	
		COURSE CODE	$\Xi : 352$	

Time: 2 Hours

Max: 400 Marks

# Instructions to Candidates:

- Write your Register Number within the box provided on the top of this page and 1. fill in the page 1 of the answer sheet using pen.
- Do not write your name anywhere in this booklet or answer sheet. Violation of this entails disqualification.
- Read each question carefully and shade the relevant answer (A) or (B) or (C) or (D) or (E) in the relevant box of the ANSWER SHEET using HB pencil.
- Avoid blind guessing. A wrong answer will fetch you -1 mark and the correct answer will fetch 4 marks.
- Do not write anything in the question paper. Use the white sheets attached at the end for rough works.
- Do not open the question paper until the start signal is given.
- Do not attempt to answer after stop signal is given. Any such attempt will disqualify your candidature.
- On stop signal, keep the question paper and the answer sheet on your table and wait for the invigilator to collect them.
- 9. Use of Calculators, Tables, etc. are prohibited.

Directions (For questions 1 to 6): In each of the following questions there is a certain relationship between two given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same kind of relation with this word as the words of given pair bear. Choose the correct alternative.

1. ANGLE: DEGREE::

(A) Area: square unit

(B) Milk: quart

(C) Society: classes

(D) Letter: alphabet

(E) None of the Above

2. CONFIRMED: INVETERATE::

(A) Knowledge: supposed

(B) Financial: bankrupt

(C) Immature: callow

(D) Credible: incredible

(E) None of the Above

3. PARENTHESIS: EXPLANATION::

(A) Ellipsis: omission

(B) Asterisk: exaggeration

(C) Synopsis: affectation

(D) Apostrophe: annotation

(E) None of the Above

4. CENSUS: POPULATION::

(A) Manifest: debts

(B) Roster: audience

(C) Itinerary: journeys

(D) Inventory: merchandise

(E) None of the Above

5. STANZA: POEM::

(A) Mimicry: pantomime

B) Duet : chorus

(C) Act: opera

(D) Rhyme: verse

(E) None of the Above

6. DEMURE: CHURL:

(A) Hare-brained:savant

(B) Soothing: emollient

(C) Venal: greenery

(D) Diabolic: hoodoo

(E) None of the above

Directions (For questions 7 to 12): From amongst the four alternatives, choose the best answer whose meaning is closest to the meaning of the word in question. If nothing is appropriate, choose the last option.

RHINOPHYTONECROPHILIA

- (A) Romancing the dead
- (B) One who is love with the undertaker
- (C) One who likes smelling dead plants and flowers
- (D) One who summons ghosts
- (E) None of the above

#### 8. PLEONASM

(A) Tautological

(B) Chimerical

(C) Episodic

(D) Prismatic

(E) None of the above

# 9. APOTHECARY

- (A) Planet close to the Sun
- (B) Star closest to Earth

(C) Coat hanger

(D) Pharmacy

(E) None of the above

#### 10. NOSEGAY

(A) Olfactory sensation

(B) A bouquet of flowers

(C) Obnoxious person

(D) Pungent smelling

(E) None of the above

#### 11. UNGUENT

- (A) An ointment or medicinal application (B) Uncle like
- (C) Soporific

(D) Sophomoric

(E) None of the above

# 12. LUDICROUS

(A) Absurd

(B) Clear

(C) Simple

(D) Dismal

(E) None of the above

Overlapping Start (13 => 15 = 3)

Directions (For questions 13 to 15): For each of the words below, a contextual usage is provide(D) Pick the word from the alternatives given that is most inappropriate in the given context.

		<del>-</del>	ipied by mese temp	oral pleasures. They do not last long.		
	(A)	Ephemeral	(B)	Immortal		
	<b>(C)</b>	Everlasting	(D)	Eternal		
	<b>(E)</b>	None of the above	······································			
14.	FATUOUS: He is far too sensible to have done a fatuous thing like this.					
	(A)	Stupid	(B)	Intelligent		
	(C)	Inane	(D)	Foolish		
	(E)	None of the above	•			
15.	MACABRE: The office wore a macabre look on Friday after the company downsized its staff strength.					
	(A)	Grisly	(B)	Gruesome		
	(C)	Tropical	(D)	Lugubrious		
	<b>(E)</b>	None of the above	•			
	Over	lapping End (13 => 15 =	= 3)			
16.	(A) (C)	EQUIOUS servile fawning	(B) (D)	first supercilious		
	(E)	None of the above				
17.		MINATION				
	(A)	praise	(B)	repetition		
	(C)	escape	(D)	ratification		
	(E)	None of the above	•	en e		
18.	TOUT					
	(A)	cast aspersions on	(B)	deny the relevance of		
	(C)	misrepresent	( <b>D</b> )	withhold consent		
	(E)	None of the above	· · ·			
	OUTLANDISH					
19.	OUI					
19.	OU'I (A)		(B)	prolific		
19.		LANDISH		prolific transparent		

20.	RAVEL		•			
	(A) knit	(B)	omit			
	(C) remain silent	(D)	measure			
	(E) None of the above					
21.	PERSISTENCE					
	(A) irrelevance	(B)	inconstancy			
	(C) inequality	(D)	intemperance			
	(E) None of the above					
22.	IGNOMINIOUS					
	(A) scholarly	(B)	incognito			
	(C) laudatory	(D)	disgraceful			
	(E) None of the above					
23.	CONTENTIOUS					
	(A) satisfied	(B)	pacific			
	(C) hungry	· (D)	bellicose			
	(E) None of the above					
24.	appropriate, choose the last option.  In his usual manner, he (A) pensive	•	- · · · · · · · · · · · · · · · · · · ·			
	(C) indifferent	( <b>D</b> )	circumspect			
	(E) None of the above					
25.	We never believed that he would resort to in order to achieve his goal; we always regarded him as a man.					
	(A) charm - insincere	(B)	necromancy - pietistic			
	(C) subterfuge – honest	(D)	prestidigitation - articulate			
	(E) None of the above					
26.	The most technologically advanced societies have been responsible for the greatest indeed savagery seems to be indirect proposition to					
	(A) inventions - know-how	_	wars - viciousness			
	(C) triumphs - civilizations	(D)	atrocities - development			
	(E) None of the above					
27.	fighting all these years. We will we	ork together ( opponent took	g those changes for which I have been to do away with the bureaucratic bogs toffice. Everyone of you knows what I			
	(A) hand in his resignation gracie	ously (B)	stop lying to the public			
	(C) make his stance clear	(D)	get our city more federal aid			
	(F) None of the obove					

Directions (Questions X to X): Read the passages give below and answer the questions appropriate to the concerned passages.

Nine individuals - Z, Y, X, W, V, U, T, S and R - are the only candidates, who can serve on three committees - A, B and C The following are the rules regarding to constituting the committees:

- Each candidate should serve on exactly one of the committees.
- Committee A should consist of exactly one member more than committee (B)
- It is possible that there are no members of committee (C)
- Among Z, Y and X none can serve on committee (A)

	•	Among W, V and U none can serve				
	Among T, S and R none can serve on committee (C)					
	With	n the above base information answe				
28.	In case T and Z are the individuals serving on committee B, how many of the nine individuals should serve on committee C?					
	(A)	3	(B)	4		
	(C)	5		6		
	(E)	None of the above	( <b>D</b> )	· ·		
29.	Of the nine individuals, the largest number that can serve together on committee C is					
	(A)	9	(B)			
	(C)	7	( <b>D</b> )	6		
	<b>(E)</b>	None of the above				
30.	In case R is the only individual serving on committee B, which among the following should serve on committee A?					
	(A)	W and S	(B)	V and U		
	(C)	T and S	( <b>D</b> )	U and S		
	(E)	None of the above				
31.	In case any of the nine individuals serves on committee C, which among the following should be the candidate to serve on committee A?					
	(A)	Z	(B)	Y		
	(C)	W	(D)	T		
	<b>(E)</b>	None of the above				
<b>32</b> .	In case T, S and X are the only individuals serving on committee B, the total membership of committee C should be:					
	(A)	Z and Y	( <b>B</b> )	Z and W		
	(C)	Y and V	(D)	Y and U		
	<b>(E)</b>	None of the above				
33.	Among the following combinations which could constitute the membership of committee C?					
		Y and T	<b>(B)</b>	X and U		
		Y, X and W		W, V and U		
		None of the above	•	•		
352		•	6			

In an experiment conducted at a laboratory, 160 white mice were injected with Serum D 160 other white mice were injected with a harmless sugar solution. In two weeks time 39% of the white mice, who were injected with Serum D contracted the highly contagious and often fatal disease, jungle fever. Hence, it can be concluded that jungle fever is caused by some elements similar to the elements in Serum D

With the above base information answer the following questions:

- 34. The above discussion would be weakened most severely in case it is shown that
  - (A) People contracting jungle fever are usually the victims of the bite of the South American Lesser Hooded Viper.
  - (B) One among the 160 white mice had already contracted jungle fever prior to the laboratory experiment.
  - (C) The natural habitats of white mice does not contain any of the elements found in Serum D
  - (D) The scientists administered the injections being ignorant of the contents of the solutions used
  - (E) None of the above.
- 35. The above argument would be highly empowered in case it were shown that:
  - (A) Some of the elements in Serum D are extracted from the root of a certain poisonous jungle wildflower.
  - (B) Invariably the blood of the victims of jungle fever victims contains a high level of a certain toxic substance also found in serum D
  - (C) Almost all the white mice died within a period of two days after the first symptoms appeared
  - (D) Normally the rate of jungle fever among white mice is less than 0.01%.
  - (E) None of the above.
- 36. Distribution of leaflets and delivering speeches on government property should be outlawed. Radicals and fanatics have no right to use public property when peddling their unsavory views.

The argument above is based on the postulate

- (A) The general public has a special concern in the free exchange of different political views.
- (B) Every person who hands out leaflets and delivers speeches is a radical or fanati C
- (C) Radicals and fanatics prefer the use of public property while propagating their viewpoint.
- (D) Legal constraints which are applicable to one group need not be equally applicable to all.
- (E) None of the above

37. No national productivity measures are available for underground industries that may exist but remain unreported d. On the other hand, at least some industries that are run entirely by self-employed industrialists are included in national productivity measures.

From the information given above, it can be validly concluded that,

- (A) There are at least some industries run entirely by self-employed industrialists that are underground industries
- (B) No industries that are run entirely by self-employed industrialists operate underground
- (C) There are at least some industries other than those run entirely by self-employed industrialists that are underground industries
- (D) There are at least some industries run entirely by self-employed industrialists that are not underground industries
- (E) None of the above
- 38. Sally has never received a violation from the Federal Aviation Administration during her 16-year flying career. Sally must be a great pilot.

Which of the following can be said about the reasoning above?

- (A) The definitions of the terms create ambiguity.
- (B) The argument uses circular reasoning.
- (C) The argument works by analogy.
- (D) The argument is built upon hidden assumptions.
- (E) None of the above.
- 39. Cars are safer than planes. Fifty percent of plane accidents result in death, while only one percent of car accidents result in death.

Which of the following, if true, would most seriously weaken the argument above?

- (A) Planes are inspected more often than cars.
- (B) The number of car accidents is several hundred thousand times higher than the number of plane accidents.
- (C) Pilots never fly under the influence of alcohol, while car drivers often do.
- (D) Plane accidents are usually the fault of air traffic controllers, not pilots.
- (E) None of the above.
- 40. Dear Editor: I feel obliged to comment on the unfair review you published last week written by Robert Duxbury. Your readers should know that Mr. Duxbury recently published his own book that covered the same topic as my book, which you asked him to review. It is regrettable that Mr. Duxbury should feel the need to belittle a competing work in the hope of elevating his own book.

The author of the letter above makes her point by employing which method of argument?

- (A) Attacking the motives of the author of the unfavorable review.
- (B) Attacking the book on the same topic written by the author of the review.
- (C) Contrasting her own book with that written by the author of the review.
- (D) Questioning the judgment of the author of the unfavorable review.
- (E) None of the above.

41. Many people argue that the death penalty deters murder. However, the notorious killer Ned Grandy deliberately moved to a state that imposes the death penalty just before embarking on a series of ferocious murders. Thus, it seems clear that the existence of the death penalty does not serve as a deterrent to murder.

The argument above may best be characterized as:

- (A) an appeal to emotion.
- (B) a flawed analogy.
- (C) a general conclusion based on a specific example.
- (D) circular reasoning.
- (E) None of the above.

## 42. Consider the following:

- James weighs more than Kelly.
- Luis weighs more than Mark.
- Mark weighs less than Ned
- Kelly and Ned are exactly the same weight.

If the information above is true, which of the following must also be true?

- (A) Luis weighs more than Ned
- (B) Luis weighs more than James.
- (C) Kelly weighs less than Luis
- (D) James weighs more than Mark
- (E) None of the above.
- 43. Man: I've heard that the new Chemistry class is really difficult.

Woman: Oh, I wouldn't say that.I took Chemistry 402 last quarter, and I think the course went very smoothly.

Question: What does the woman mean?

- (A) The chemistry class is very tough.
- (B) The chemistry class is not teaching this quarter.
- (C) The chemistry class is easier than the man thinks.
- (D) The chemistry class should be avoided if possible.
- (E) None of the above.
- 44. Woman: I've heard great things about that movie that just came out. You want to go see it tonight?

Man: I'd love to, but I've got a history final in two days, and I haven't studied all quarter. I think I'd better take a rain check this time.

What does the man mean?

- (A) He needs to take a break from his studying.
- (B) He loves the woman very much.
- (C) He doesn't like going out in the rain.
- (D) He will not be able to accompany the woman.
- (E) None of the above.

Woman: The milk in the refrigerator is sour. I don't think it's drinkable.

Man: No joke. The expiration date was three weeks ago.

Question: What does the man imply?

- The woman has an extremely sour disposition.
- (B) They need to replace the refrigerator.
- (C) The woman is just kidding.
- It's not surprising the milk has ruined (D)
- **(E)** None of the above.

Directions (Questions X to X): Observe the series of patterns given in each question and find the appropriate one which can replace the concern Question Mark.

46. Which letter replaces the question mark?

6	4	4	1
4	N	L	7
5	U	?	1
6	10	14	2

(A)

(B) Q

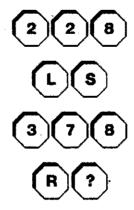
 $\mathbf{R}$ (C)

(D) S

- (E) None of the above.

47.

Which letter replaces the question mark?



(A) S (B) M

(C) U (D) P

**(E)** None of the above. 48.

Which number replaces the question mark?

6		1
L	P	D
2		4

5		1
j	М	C
2		3





(A) 1

(B) 2

(C) 3

(D) 4

(E) None of the above.

**49**.

Which letter replaces the question mark?

- 3 P 8
- 9 G 11
- 2 U 4
- 3 W 1
- 7 ? 18
- (A) Q

(B) B

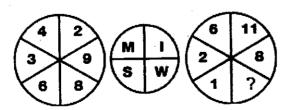
(C) S

(D) K

(E) None of the above.

50.

Which number replaces the question mark?



(A) 1

(B) 2

(C) 3

(D) 4

(E) None of the above.

Directions (Questions 51 to 54): Choose the odd one out from the following series of patterns.

- 51. 3, 5, 11, 14, 17, 21
  - (A) 21

(B) 17

(C) 14

(D) 3

- (E) None of the above.
- 52. 8, 27, 64, 100, 125, 216, 343
  - (A) 27

(B) 100

(C) 125

(D) 343

- (E) None of the above.
- 53. 10, 25, 45, 54, 60, 75, 80
  - (A) 10

(B) 45

(C) 54

(D) 75

- (E) None of the above.
- 54. 396, 462, 572, 396, 427, 671, 264
  - (A) 396

(B) 427

(C) 671

(D) 264

(E) None of the above.

Directions (Questions 55 to 60): For each question, compare between the given Two quantities and choose the appropriate answer from the given options.

55. Quantity A: (-6)<sup>4</sup>

Quantity B: (-6)<sup>5</sup>

- (A) Quantity A is greater
- (B) Quantity B is greater
- (C) Two quantities are equal
- (D) The relationship cannot be determined from the information given
- (E) None of the above
- 56. Quantity A: Time to travel 95 miles at 50 miles per hour

Quantity B: Time to travel 125 miles at 60 miles per hour

- (A) Quantity A is greater
- (B) Quantity A equals Quantity B
- (C) Quantity B is greater
- (D) The relationship cannot be determined from the information given
- (E) None of the above
- 57. Quantity A: (9/13)<sup>2</sup>

Quantity B: (9/13)1/2

- (A) Quantity A equals Quantity B
- (B) The relationship cannot be determined from the information given
- (C) Quantity B is greater
- (D) Quantity A is greater
- (E) None of the above

Quantity A: 4/100 58.

Quantity B: 0.012/3

- (A) Quantity B is greater
- Quantity A equals Quantity B (B)
- (C) Quantity A is greater
- The relationship cannot be determined from the information given **(D)**
- None of the above **(E)**

59. x = 2y + 3

$$y = -2$$

Quantity A: x

Quantity B: -1

- Quantity in Column A is greater (A)
- Quantity in Column B is greater **(B)**
- The two quantities are equal (C)
- The relationship cannot be determined from the information given **(D)**
- **(E)** None of the above

60.

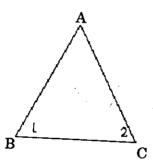


Diagram is illustrative and is not drawn to scale.

Given AB = AC and angle BAC =  $60^{\circ}$ 

Quantity A: Length of side AB

Quantity B: Length of side BC

- Quantity A equals Quantity B (A)
- Quantity B is greater (B)
- The relationship cannot be determined from the information given (C)
- Quantity A is greater (D)
- (E) None of the above

61.	If the radius of a circle is increased by 20%	% than	the area is increased by
OI.	(A) 44%	(B)	120%
	(C) 144%	(D)	40%
	(E) None of the above	(12)	1070
	(1) 1.010 01 110 000,0		
62.	A plot of land is in the shape of a trapeziu	ım wh	ose dimensions are given in the figure
	below:	·· <i>-</i> -	
	A 9 m B		
			•
	13 m		•
	12 m		
	$D \leftarrow C$		
	50 m — E		·
	Hence the perimeter of the field is		
	(A) 50 m	(B)	64 m
	(C) 72 m	(D)	84 m
	(E) None of the above	(1)	0 <del>1</del> m
	(E) Tropie of the above		
63.	Lengths for the triangle below are given in	n faat	What is the value of v?
00.		ii ieeu.	What is the value of x:
	$\frac{2\sqrt{3}}{\sqrt{30^{\circ}}}$		
			•
	x		
	60°		
	<b>V</b>	(T)	lo .
	(A) 2	(B)	√3
	(C) 4	(D)	5
	(E) None of the above	•	
	O1 ' Ot+ (C4 E0 - 11)	•	
	Overlapping Start $(64 \Rightarrow 73 = 11)$		
64.	A person starts multiplying consecutive	7 <b>6 11</b> 00	sitive integers from 20 How many
U-Z.	numbers should he multiply before the wi		
	(A) 11	(B)	10
	(C) 6	(D)	5

What is the reminder when  $91 + 92 + 93 + \dots + 99$  is divided by 6?

(A) 0 (B) 3

, (C)

(D) 2

None of the above

How many numbers are there between 100 and 1000 such that atleast one of their digits is 6?

(A) **64**8

**(B)** 258

(C) 654 (D) 252

None of the above

67.	Find (A) (C) (E)	the sum of all the integers which are 8729 8428 None of the above	multi (B) (D)	iples of 7 and lie between 200 and 400. 8700 8438
68.	the	<del>-</del>		surface area of B is 300% higher than to be k% lower than the volume of B.
	(A)	85.5	(B)	92.5
	(C)	90.5	( <b>D</b> )	87.5
٠	(E)	None of the above		
69.	wro	<del>_</del>	g a qı	nark for a correct answer, -1/3 for a nestion. If the net score of a student is by that student cannot be less than 12
70.	, .	$v$ many even integers n, where $100 \le n$	<b>≤200</b>	, are divisible neither by seven nor by
	(A)	40	(B)	37
	(C)	39	(D)	38
	(E)	None of the above		
71.	Let	g(x) = max(5 - x, x + 2). The smallest j	ossib	le value of g(x) is
	( <b>A</b> )	4.0	(B)	4.5
	(C)	1.5	(D)	3.5
	<b>(E)</b>	None of the above		· ·
72.		en that $-1 \le v \le 1$ , $-2 \le u \le -0.5$ and $-2$ wing is necessarily true?	≤ <b>z</b> ≤	-0.5 and $w = vz/u$ , then which of the
	(A)	$-0.5 \le w \le 2$	(B)	$-4 \le w \le 4$
	(C)	$-4 \le w \le 2$	(D)	$-2 \le w \le -0.5$
	<b>(E)</b>	None of the above		·
73.		w many three digit positive integers, w unit's place respectively, exist such the 245 240 None of the above		igits x, y and z in the hundred's, ten's $< y$ , $z < y$ and $x \neq 0$ ? 285 320
74.	that elen	the sum of no two elements of $S$ :	is 47(	459,467) and S be a subset of T such  O. The maximum possible number of
	(A)	32	(B)	28
	(C)	29	(D)	30
	<b>(E)</b>	None of the above		

Overlapping End  $(64 \Rightarrow 74 = 11)$ Already Overlapping End  $(13 \Rightarrow 15 \Rightarrow 3)$ So, Total overlapping is equal to 11 + 3 = 14. The average of 5 quantities is 6. The average of 3 of them is 8. What is the average of the remaining two numbers? (A) 6.5 (B) (D) 3.5 (C) None of the above  $(\mathbf{E})$ The average age of a family of 5 members is 20 years. If the age of the youngest member be 10 years then what was the average age of the family at the time of the birth of the youngest member? (A) 13.5 (B) 14 15 (D) 12.5 (C) **(E)** None of the above If ABC is a right angle triangle with angle A = 900 and 2s = a + b + c, where a > b > cwhere notations have their usual meanings, then which one of the following is Correct? (A) (s-b)(s-c) > s(s-a)(B) (s-a)(s-c) > s(s-b)(C) (s-a)(s-b) < s(s-c)(D) 4s(s-a)(s-b)(s-c) = bcNone of the above Daal is now being sold at Rs. 20 per kg. During last month, its rate was Rs. 16 per kg. By how much percent should a family reduce its consumption so as to keep the expenditure fixed? (A) 15 **(B)** 18 20 (C) (D) 33 (E) None of the above Find the least value of 3x + 4y if x2y3 = 6. (A) 15 (B) 8 (C) 10 (D) 12 None of the above (E) One fast typist type some matter in 2hrs and another slow typist type the same matter in 3hrs. If both do combine in how much time they will finish? (A) 1hr 14 mints 1hr 18 mints **(B)** (C) 1hr 12 mints (D) 1hr 02 mints

(E) None of the above

01.	(A)	64	(B)	128
	(C)	192	(D)	204
	(E)	None of the above		
82.	In a	fraction, if 1 is added to both the n	umer	ator at the denominator, the fraction
	beco	mes 1/2. If numerator is subtracted fi	rom t	he denominator, the fraction becomes
	3/4.	Find the fraction.		
	(A)	6/5	(B)	1/5
	(C)	3/7	( <b>D</b> )	7/8
	(E)	None of the above	·	
83.	Five	years ago, Beth's age was three times	that	of Amy. Ten years ago, Beth's age was
	one	half that of Chelsea. If C represents C	helse	a's current age, which of the following
	repr	esents Amy's current age?		
	(A)	c/6 + 5	(B)	2c
	(C)	(c-10)/3	(D)	· 3c-5
	(E)	None of the above		
84.	A pe	erson who decided to go weekend trip	shoul	d not exceed 8 hours driving in a day
	Ave	rage speed of forward journey is 40 i	mph.	due to traffic in sundays, the return
	jour	ney average speed is 30 mph. how far	he cai	n select a picnic spot
	(A)	90 miles	( <b>B</b> )	120 miles
	(C)	115 miles	(D)	112 miles
	(E)	None of the above		
85.	The	monthly incomes of A and B are in th	e rati	to 4:5, their expenses are in the ratio
	5:6.	If 'A' saves Rs.25 per month and 'I	3' sav	es Rs.50 per month, what are their
	resp	ective incomes?		
٠	(A)	Rs.400 and Rs.500	(B)	Rs.240 and Rs.300
	(C)	Rs.320 and Rs.400	(D)	Rs.440 and Rs.550
•	(E)	None of the above	•	

86.	Whi	Which of the following features are implemented directly by virtual memory?						
	(i) A larger virtual address space than physical memory							
	(ii)	(ii) Allow multiple processes to share a physical memory						
	(iii)	Higher bandwidth access to disk						
	(iv)	A larger number of auto vectored	interrup	ts				
	(v)							
	(A)	i, ii & iii	(B)	i, ii,v				
	(C)	i, ii, iv	(D)	i, iv, v				
	<b>(E)</b>	None of the above						
87.	How	many bits are required to address	a 4M x 3	32-bit main memory if,				
	(i). I	Main memory is word-addressable (	ii). Main	memory is byte-addressable				
	(A)	22, 24	(B)	24, 22				
	(C)	22, 22	( <b>D</b> )	24,24				
	(E)	None of the above						
88.	What will be the output of the following program?							
	#include <stdio.h></stdio.h>							
	main()							
	{ float a=12,b=12;							
		= b)						
		.tf("\n a and b are equal ");						
	}	•						
	(A)	Nothing will be printed	(B)	a and b are equal				
	(C)	compilation error	( <b>D</b> )	Syntax error				
	(E)	None of the above		· ·				
89.	Wha	at will be the output of the following	g prograi	n?				
		lude <stdio.h></stdio.h>						
	main()							
	{sta	tic char a[]="Bombay";	*					
		r *b="Bombay";						
		.tf("%d %d",sizeof(a),sizeof(b));						
	}	• • • • • • • • • • • • • • • • • • • •		•				
•	, (A)	16	(B)	11				
	(C)	2 2	(D)	<b>7 2</b>				
		None of the above						

90.	$\mathbf{The}$	open source language used with M	ozilla is			
	(A)	M++	(B)	XUL		
	(C)	Mo Basic	(D)	All of the above		
	(E)	None of the above				
91.	Thu	nder bird is a		• •		•
	(A)	Spreadsheet application	( <u>B</u> )	Debugging tool		
	(C)	Testing Tool	( <b>D</b> )	E-mail client	•	
	<b>(E)</b>	None of the above				
92.		=(A,B,C,D,E) with AB as the prim	•	and F=( B->F, A->C, A	.B->DE, AB->F)	١,
		n the relation is in normal		a .		
	(A)	First	(B)	Second		
	(C)	Third	(D)	All of the above	·	
	(E)	None of the above				
93.	Ina	FCFS Disk Scheduling, Consider,	a disk q	ueue with requests	for I/O to block	8
	on c	ylinders in the order 98,183, 37,122	, 14,124,	65, 67. Make an assu	mption that disl	ζ
	head	l is initially at cylinder 53, Then th	e total he	ead movement involve	d is	
	(A)	640	(B)	740		
	(C)	840	(D)	940		
	<b>(E)</b>	None of the above				
	Ove	rlapping End (86 => 93 = 8)		,		
	$\mathbf{Alre}$	eady Overlapping End $(13 \Rightarrow 15 \Rightarrow 3)$	3)			
	Alre	eady Overlapping End $(64 \Rightarrow 74 = 1)$	.1)			
	So, '	Total overlapping is equal to 8+3+1	1 = 22.			
94.	Wha	at will be the output of the following	g progran	n?		
	#inc	lude <stdio.h></stdio.h>				
	#def	fine PRODUCT(x) (x*x)				
	mai	<b>n</b> ()		•		
	{					
	int i	=3,j=0,k=0;				
	clrs	er();	•			
	j=PI	RODUCT(i++);				
	k=P	RODUCT(++i);				
	prin	itf("%d %d ",j,k);				
	}	<del>~</del> · · ·	•			
	(A)	9 49	(B)	49 9		
	(C)	9 9	(D)	0 0		
	(13)	NC - h	` ′			

95.	Busi (A)	ness Intelligence is the industrial terr Data Structures	minolo (B)	ogy for Database normalization
	(C)	Data encryption	(D)	Neural Networks
	(E)	None of the above	( <b>D</b> )	Neural Networks
				•
96.	On a	a movable-head system, the time it	takes	to position the head at the track is
	knov	vn as		
	(A)	Latency time	(B)	Transfer Time
	(C)	Rotational Delay	(D)	seek time
	(E)	None of the above		
97.	Whi	ch is not true in the following?		
	(A)	Functional independence is a direct	outgro	owth of modularity.
	(B)	Cohesion is a natural extension of in	- ıforma	tion hiding.
	(C)	Modularity is the only criteria to inc	rease	the rate of reusability.
	(D)	Design specification contains a requi		· · · · · · · · · · · · · · · · · · ·
	(E)	None of the above.		
			•	
98.	Half	-adder is also known as		
	(A)	AND gate	(B)	NAND gate
•	(C)	NOR gate	(D)	XOR gate
	(E)	None of the above		
99.	Tran	o door		
	(A)	Could be included in a compiler	-	
	(B)	Pose a difficult problem because, to	detect	them
	(C)	Could be included in interpreter		
	(D)	Both A and B		•
	(E)	None of the above		
100	Eve	ry BCNF decomposition is	٠	
200.	(A)	Dependency preserving	(B)	Not dependency preserving
	(C)	Need to be dependency preserving	(D)	All of the above
		•	( <b>L</b> )	THI OF THE ADOVE
	$(\mathbf{E})$	None of the above		