Examination: 5 Yr Integ M.Sc Prog Maths Computer Science Statistics	
Section 1 - Section 1	
Question No.1	4.00
Bookm If V(X) = 4, E(X) =3, then V(2X+2)	ark 🗀
୍ର 19 ୍ର 17	
O 16	
O 18	
Question No.2	4.00
Bookm	ark 🔽
Ganga purchased an iron box at $\frac{9}{10}$ th of its selling price and sold it at 8% more than its	
selling price. Find her gain percent.	
$(x-1)(x+9)^2$	
$\circ (x-1)(x+9)$	
$(x-1)^2(x+9)$	
C 0	
Question No.3	4.00
Bookm	
Among the following which is not a primitive data type? C Char	
○ Float	
○ Struct ○ Integer	
Question No.4 Bookm	4.00 nark
If A+B means A is daughter of B, A-B means A is husband of B	
A × B means A is brother of B	
From the statement A × B × C × D, which of the following statement is not necessarily true?	
C is the brother of A B is the brother of A	
C D is brother of C	
C A, B, C are male	
Question No.5	4.00
Bookm The odds in favour of a certain event are 5:4 and odds against another event are 4:3. the chance that at least one of them will happen is by assuming the events are	ark 🔽
independent ○ 7/63	
C 47/63	
C 15/63	
c 51/63	
Our face No. C	4.00
Question No.6 Bookm	4.00 nark
Which of the following words is spelled wrongly?	
© Reffered © Differed	
© Offered	
© Suffered	
Question No.7	4.00
Bookm Pen drives are based flash memory.	ark 🗆
© RAM	
© ROM © EEPROM	
© EPROM	
Question No.8	4.00
Bookm	
Study the following information carefully and answer the question below it	
The Director of an MBA college has decided that six guest lectures on the topics of Motivation, Decision Making, Quality Circle, 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 following information is not required for the above lecture arrangements?

- All are required
- Only (i)
- Only (ii)

Only (iii)

Question No.9 4.00 Bookmark 🗸

If $x \in R$, then the range of f(x) =

$$x^2 - 3x + 4$$

$$x^2 + 3x + 4$$

$$\left(-\infty,\frac{1}{7}\right]$$

$$\left(\frac{1}{7},7\right)$$

$$\begin{bmatrix} 1 \\ 7,7 \end{bmatrix}$$

Question No.10 4.00

Bookmark 🗸

Expected value of sum of numbers of points, when two dies are thrown simultaneously is

- 0 12
- 0.7
- 0 6
- 0.8

Question No.11 4.00 Bookmark □

A four member crew is painting Mr.Rohan's house. Mohan is painting the front of the house. Roshan is painting the back. John is painting the window frames on the north side, Sam is on the south. If Mohan switches places with John, and John then switches places with Sam, where is Sam?

- C Front Side of the house
- C Back side of the house
- South Side of the house
- O North Side of the house

Question No.12 Bookmark |

The value of "k" for which the equations x + y + 3z = 0; 4x +3y + kz = 0; and 2x + y + 2z = 0have a trivial solution

$$0 \quad k \neq -8$$

$$c k = 8$$

$$0 \quad k \neq 8$$

$$0 \quad k = -8$$

Question No.13 Bookmark □

In the following question, a group of three interrelated words is given. Choose a word from the given alternatives, that belongs to the same group. Liver: Heart:: Kidney

- C Luna
- C Blood
- Nose
- Urine

Question No.14	4.00 Bookmark
Study the following information carefully and answer the question below it	
 (i) A, B, C, D, E and F are six students in a class (ii) B and C are shorter than F but heavier than A (iii) D is heavier than B and taller than C (iv) E is shorter than D but taller than F (v) F is heavier than D (vi) A is shorter than E but taller than F 	
Which of the following groups of friends is shorter than A? C F, B, C only D, B, C only B, C only E, B, C only	
Question No.15	4.00
ldentify the algorithm which is not used by Operating System for process management. C Shortest Job First C First in First Out C Last in First Out C Round Robin	Bookmark ☑
Question No.16	4.00 Bookmark
In inheritance, the following type of derivation is not included. C Private Auto Public Protected	DOWNIAIR W
Question No.17	4.00
The one's complement representation of -55 is © 11001000	Bookmark ✓
C 10101010 C 1010101 C 110111	
C 10101010 C 1010101	4.00
C 10101010 C 1010101 C 110111	4.00 Bookmark
C 10101010 C 1010101 C 110111 C 110111 Question No.18 The median of 10 observations is equal to 50 if 3 is added to each observation, then the new median value is C 53 C 50 C 10	Bookmark 4.00
C 10101010 C 1010101 C 110111 Question No.18 The median of 10 observations is equal to 50 if 3 is added to each observation, then the new median value is C 53 C 50 C 10 C 13	Bookmark
Cuestion No.18 The median of 10 observations is equal to 50 if 3 is added to each observation, then the new median value is 53 50 10 13 Cuestion No.19 The ability of an object to respond differently to different messages is called as Polymorphism Data hiding Inheritance	Bookmark 4.00 Bookmark 4.00
Cuestion No.18 The median of 10 observations is equal to 50 if 3 is added to each observation, then the new median value is	Bookmark ☐ 4.00 Bookmark ☐
C 10101010 C 1010101 C 110111 Question No.18 The median of 10 observations is equal to 50 if 3 is added to each observation, then the new median value is C 53 C 50 C 10 C 13 Question No.19 The ability of an object to respond differently to different messages is called as C Polymorphism Data hiding Inheritance Encapsulation	Bookmark 4.00 Bookmark 4.00
Cuestion No.18 The median of 10 observations is equal to 50 if 3 is added to each observation, then the new median value is $\begin{array}{c} \circ 53 \\ \circ 50 \\ \circ 10 \\ \circ 13 \end{array}$ Cuestion No.19 The ability of an object to respond differently to different messages is called as $\begin{array}{c} \circ \text{ Polymorphism} \\ \circ \text{ Data hiding} \\ \circ \text{ Inheritance} \\ \circ \text{ Encapsulation} \end{array}$ Cuestion No.20 The number of non-zero integral solutions of the equation $ 1-i ^x=2^x$ is	Bookmark 4.00 Bookmark 4.00
Cuestion No.18 The median of 10 observations is equal to 50 if 3 is added to each observation, then the new median value is $\begin{array}{c} c \ 53 \\ c \ 50 \\ c \ 10 \\ c \ 13 \\ \end{array}$ Question No.19 The ability of an object to respond differently to different messages is called as $\begin{array}{c} c \ \text{Polymorphism} \\ c \ \text{Data hiding} \\ c \ \text{Inheritance} \\ c \ \text{Encapsulation} \\ \end{array}$ Question No.20 The number of non-zero integral solutions of the equation $ 1-i ^x=2^x$ is $\frac{5\vec{a}+3\vec{b}}{4}$	Bookmark 4.00 Bookmark 4.00

0

Question No.21

4.00 Bookmark 🔽

JPEG image files use

- C Encryption
- Watermarking
- C Lossy compression
- C Lossless compression

Question No.22

Bookmark [

If $f: R \to R$; $g: R \to R$ are defined respectively by f(x) = 2x + 1 and $g(x) = \frac{x-1}{2}$, then $f \diamond g$ is

Bookmark [

In a programming language user defined name is called

- Identifier
- Constant
- Syntax
- C Expression

Question No.24 Bookmark 🗸

A box contains 'a' white balls and 'b' black balls; If 'c' balls are drawn from the box then the expected number of white balls among the c balls is $C^*(\frac{a}{a+b})$

$$c * \left(\frac{a}{a+b}\right)$$

$$c * \left(\frac{a-b}{a+b}\right)$$

$$c * \left(\frac{ab}{a+b}\right)$$

$$c * \left(\frac{a}{a-b}\right)$$

Question No.25 Bookmark

OSI provided a network architecture with_____ layers

- 07
- 05 O 6
- O 8

Question No.26 Bookmark 🗸

$$\lim_{x\to\infty} \left(\frac{x+3}{x-1}\right)^{x+3}$$
 is

$\circ e^{-2}$	
o e³	
o e4	
Question No.27	4.00
The language Python uses approach.	Bookmark
Object oriented	
© Procedure oriented © Logic oriented	
© Procedure oriented and object oriented	
Question No.28	4.00
	Bookmark
Scarcely had I reached the railway station when the New Delhi Express took off. The underlined words are	
© pronouns	
© adverbs © verbs	
© conjunctions	
Question No.29	4.00
	Bookmark [
ASCII stands for © American Standard Code for Instruction Interaction	
© All purpose String Code for Information Interchange	
 American Standard Code for Instruction Interchange American Standard Code for Information Interchange 	
Question No.30	4.00 Bookmark
Which concept of Object Oriented Programming is implemented in the following figure	
STUDENT	
GRADUATE	
GRADUATE POST GRADUATE C Inheritance	
POST GRADUATE	
© Inheritance	
© Encapsulation	
© Polymorphism	
○ Abstraction	
Overfue No Of	4.00
Question No.31	4.00 Bookmark
Which of the following measure can make use of the 100% data © Mean	
© Minimum	
O Median	
© Maximum	
Question No.32	4.00
If P(E) =1 the event is called	Bookmark 🖂
© certain event	
© impossible event © independent event	
© exclusive event	
Question No.33	4.00 Bookmark
Mean of 10 observations is 5, if a constant 4 is added to every observation, then the new mean is	
○ New Mean is no way related to Old Mean○ New Mean < Old Mean	
○ New Mean = Old Mean	
○ New Mean > Old Mean	

A simple flip-flop has ____ stable states.

- 0.1
- 0 2
- 03

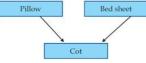
0 4

Question No.35

4.00

Bookmark 🔽

Write the type of inheritance depicted in the following figure.



- C Hierarchical inheritance
- Multi level inheritance
- C Hybrid inheritance
- Multiple inheritance

Question No.36

4 00

ookmark i

Arithmetic Mean of 'n' numbers of a series is \overline{X} . After calculations, it was observed that two number 'a' and 'b' misread in the place of 'c' and 'd'. what is the corrected mean value

$$\frac{n\overline{X} - (a+b) + (c+d)}{(n+1)}$$

$$\frac{n\overline{X} - (a+b) + (c+d)}{n}$$

$$\bigcap_{n \in \overline{X} - (a+b) + (c+d) \atop (n-1)}$$

$$\stackrel{\cap}{\underline{X}-(a+b)+(c+d)}$$

Question No.37

4.00

Bookmark

☐

Given that P(A) = 1/3,P(B) = 3/4,P(A U B) = 11/12, the probability, P(B/A) =

- 0 1/2
- 0 1/4
- O 4/9
- O 1/6

Question No.38

vage -

4.00 Bookmark

$$f(x) = \frac{x^2 + x + 2}{x^2 - x}$$
 is

$$R - \{0,1\}$$

- 0 [0,1]
- $R \{1\}$
- $R \{0\}$

Question No.39

4.00

Bookmark [

In the interval $(-\infty, -2]$, the function $f(x) = 2x^3 + x^2 - 20x$ is

- Increasing
- C Strictly increasing
- C Strictly decreasing

Decreasing

Question No.40

Expected number of the outcome when a die is thrown =

4.00 Bookmark [

- 0 5/2
- 0 7/2
- 0 9/2
- O 11/2

Question No.41 Bookmark |

If a coin is tossed until a head appears, then the approximate expected number of tosses required =

- 0.2
- 03
- 0.1
- 0 4

Question No.42 4.00

Identify the invalid statement.

- Constructors and destructors are executed automatically
- Constructors and destructors can be overloaded
- Constructors and destructors are defined as the member functions of the class
- Constructors and destructors have the same name of the class

Question No.43 4.00 Bookmark 7

$$\frac{1}{n}\sum_{i=1}^{n}(x_i - A)^2$$
 is minimum when A=

- Median
- C Geometric Mean
- Mean
- O Mode

Question No.44

Bookmark ┌

A cylindrical hole 4mm in diameter and 12mm deep in a metal block is rebored to increase the diameter to 4.12 mm. Estimate the amount of metal removed.

- \circ 2.80 π mm³
- $^{\circ}$ 2.00 π mm³
- $\circ 2.09\pi \, mm^3$
- $^{\circ}$ 2.89 π mm³

Question No.45 4.00 Bookmark 🗸

Which of the following is the model social category in an area of residents

Social category OC SC ST BC Number of residents 45 28 56

- OC
- o sc
- o st
- О ВС

Question No.46

(1)	(2)	(3)	(4)
0 4			
0.1			
02			
03			

4.00

Based on the information given answer the following question.

- 1. In a family of six persons, there are people from three generations. Each has separate professions and they like different colours. There are two couples.
- 2. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour.
- 3. Chartered Accountant likes green colour and his wife is a teacher.
- 4. Manisha is the mother-in-law of Sunita and she likes orange colour.
- 5. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour.
- 6. Nyna is the grand daughter of Manisha and she likes blue colour. Nyna's Mother likes white colour.

What is the profession of Sunita?

- Cannot be determined
- Chartered Accountant
- Teacher
- O Principal

The radius of a sphere was measured and found to be 21cm with a possible error in measurement of atmost 0.05cm. What would be the % of error produced in the Volume?

- 0 8 0 6
- O 5
- 0.7

Question No.49

4.00

Bookmark

□

Expectation is independent of change of

- Origin only
- O both origin & scale
- neither origin nor scale
- c scale only

Question No.50 4.00

Cov(X,Y) can be calculated for the paired data like (X_i,Y_i) ,

- i =m, j≠ m
- \bigcirc i \neq j = either m or n
- i =j=n
- O i ≠n, j =n

Question No.51

4.00

Bookmark

The solution of $tan^{-1}(2x) + tan^{-1}(3x) = \frac{\pi}{4}$ is

$$\circ$$
 $S-(150-S)e^{kt}$

$$\circ S - (150 - S)e^{kt}$$

$$\circ S + (150 + S)e^{kt}$$

$$\circ S + (150 - S)e^{kt}$$

Question No.52	4.00 Bookmark
	200111111111111111111111111111111111111
If a, b and c are in arithmetic progression then the value of the determinant $\begin{vmatrix} x+2 & x+3 & x+2a \\ x+3 & x+4 & x+2b \\ x+4 & x+5 & x+2c \end{vmatrix}$ is	
0 x = 2i;	
$y = \pm 1$	
$ c x = \pm 2i; y = 1 $	
$ c x = \pm 2i; y = \pm 1 $	
$c x = \pm 2i;$	
y = -1	
Question No.53	4.00
Which of the following is an object oriented feature?	Bookmark 🗀
© Structure © Union	
C Data abstraction C Macro processing	
Question No.54	4.00
	Bookmark
The shortest distance of the point (2,10,1) from the plane \vec{r} . $(3\vec{t} - \vec{j} +$	
$(2,10,1) \text{ from the plane } (3,10,1)$ $4\vec{k}) = 2\sqrt{26} \text{ is}$	
C 2	
° 2√26	
$\begin{array}{c} c \ 2 \\ c \ 2\sqrt{26} \end{array}$ $c \ \frac{1}{\sqrt{26}}$	
○ √26	
Question No.55 One among the following is not a valid classification of computers with respect to the instruction set.	4.00 Bookmark □
© WISC © EPIC	
O CISC	
○ RISC	
Question No.56	4.00 Bookmark
"Divide by zero" is a error. ○ Syntax error	
C Logical error C Run time error	
C Language error	
Question No.57	4.00 Bookmark □
Nidhi walks 10 metres in front and 10 metres to the right. Then every time turning to her left, she walks 5, 15 and 15 metres respectively. How far is Nidhi not starting point?	w from her
© 10 metres © 5 metres	
C 15 metres C None of these	

Question No.58	4.00
Which is not a network topology?	Bookmark
O Bus	
○ Tree ○ Ring	
○ Star	
Question No.59	4.00 Bookmark
	DOORIIIdIK
$\lim_{x\to 4} \frac{ x-4 }{ x-4 } $ is	
Million Carl	
© Does not exist	
0 1 0 -1	
C 0	
Question No.60	4.00
	Bookmark
The more appropriate value of $\sin^{-1}\left(\sin\frac{3\pi}{5}\right)$ is	
$ \begin{array}{c} C & \frac{9\pi}{5} \end{array} $	
$C\frac{2\pi}{5}$	
C 3π 5	
C <u>8π</u> 5	
Question No.61	4.00 Bookmark
If A and B are exclusive events then P(A/B) = ○ P(A)	
0.0	
○ 1 ○ P(B)	
Question No.62	4.00
	Bookmark □
If $V(X) = 4$, $E(X) = 3$, then $E(X^2) = 0$	
O 11 O 14	
o 13	
Question No.63	4.00 Bookmark
Sum of 9 numbers and unknown number 'x' is 90, then the mean value is	BOOKIIIAIK
○ 10 ○ 90	
0 11 0 9	
Question No.64	4.00 Bookmark
The equation of the plane passing	
through the point $(2, 1, -1)$ and the	
line of intersection of the planes	
$\vec{r} \cdot (\vec{i} + 3\vec{j} - \vec{k}) = 0$ and $\vec{r} \cdot (\vec{i} + \vec{k})$	
$(2\vec{k}) = 0$ is	

Admission	Adlasem
Adultabaton	AGIABCIII

```
2x - y + z = 0
    0x + 9y + 11z
    0 \quad x + 4y - z = 0
    2x+y-z+5
       = 0
Question No.65
                                                                                                                               Bookmark [
Which of the following operator is having highest precedence?
   O ()
    C + (unary)
    0 -
   0 *
                                                                                                                                        4.00
Question No.66
                                                                                                                               Bookmark 🗀
SQL is expanded as
   C String Query Language
   C Sequential Query Language
   C Syntax Query Language
    C Structured Query Language
Question No.67
                                                                                                                                      4.00
Which is an invalid category of database?
   C Formal database

    Network database

    Hierarchical database

    C Relational database
Question No.68
                                                                                                                                    4.00
                                                                                                                               Bookmark 🗀
 The rank of the matrix
               -1
 2
                     is
 13
                3
      -2
   0.2
   0 0
    0.1
    O 3
                                                                                                                               Bookmark [
If four coins are tossed simultaneously and Let X be random variable represent the number heads as outcome, then E(X) =
   0.4
    0 2
    0.1
    03
Question No.70
                                                                                                                               Bookmark [
```

"Sizeof" is a _____

© Expression

© Operator

Question No.71 The following relation holds good with Geometric Mean = (Arithmetic Mean * Hormonic Mean) ^{1/2} (Arithmetic Mean * Hormonic Mean)/2 (Arithmetic Mean * Hormonic Mean)/2 (Arithmetic Mean * Hormonic Mean) Question No.72 Unsigned long integer ranges from to 0 to 65535 0 to 4294967295 0 to 32767 0 to 2147483647 Question No.73 A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day? 0 1/8
C (Arithmetic Mean * Hormonic Mean) ^{1/2} C (Arithmetic Mean * Hormonic Mean) ² C (Arithmetic Mean + Hormonic Mean)/2 C (Arithmetic Mean * Hormonic Mean) C (Arithmetic Mean * Hormonic Mean) Question No.72 Unsigned long integer ranges from to C 0 to 65535 C 0 to 4294967295 C 0 to 32767 C 0 to 2147483647 Question No.73 Question No.73 A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day?
C (Arithmetic Mean * Hormonic Mean)/2 C (Arithmetic Mean * Hormonic Mean) Question No.72 Unsigned long integer ranges from to C 0 to 65535 C 0 to 4294967295 C 0 to 32767 C 0 to 2147483647 Question No.73 Question No.73 A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day?
Question No.72 Unsigned long integer ranges from to 0 to 65535 0 to 4294967295 0 to 32767 0 to 2147483647 Question No.73 4.00 Bookmark □ A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day?
Unsigned long integer ranges from to © 0 to 65535 © 0 to 4294967295 © 0 to 32767 © 0 to 2147483647 Question No.73 4.00 Bookmark □ A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day?
Unsigned long integer ranges from to © 0 to 65535 © 0 to 4294967295 © 0 to 32767 © 0 to 2147483647 Question No.73 4.00 Bookmark □ A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day?
C 0 to 4294967295 C 0 to 32767 C 0 to 2147483647 Question No.73 4.00 Bookmark □ A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day?
Question No.73 4.00 Bookmark A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day?
Bookmark A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day?
C 0 1/6
C 0 1/2 C 0 1/4
Question No.74 4.00 Packwork F
Bookmark
The angle between the asymptotes of the hyperbola $\frac{x^2}{9} - \frac{y^2}{4} = 1$ is approximately \bigcirc 3 + 4i (OR) -3 -4i
C -3 + 4i (OR) 3 - 4i C 3 - 4i (OR) -3 - 4i
C 3 + 4i (OR) 3 - 4i
Question No.75 4.00 Bookmark □ Statement: Ten Candidates, who were on the waiting list could finally be admitted to the course.
Assumptions: I. A large of number of candidates were on the waiting list. II. Wait listed candidates do not ordinarily get admission.
C If only assumption I is implicit I fonly assumption I is implicit
© If both I and II are implicit © If neither I nor II is implicit
Question No.76 4.00 Bookmark
These poultry belong to Mr. Kishen, our new neighbor The underlined word is anoun.
C common C collective
© proper © abstract
Question No 77
Question No.77 4.00 Bookmark □
Bookmark \Box If $\overline{x}_1=\overline{x}_2$ and $n_1=n_2$ then $\sigma^2=$
Bookmark □

Which of the fellowing acceptants having right to left acceptativity O	Bookmark
Which of the following operator is having right to left associativity? © ()	
o*	
C -	
C + (unary)	
Question No.79	4.00 Bookmark
	BOOKIIIAIK [
1 - n	
For a given data set $\frac{1}{n} \sum_{i=1}^{n} (x_i - \overline{x}) =$	
C 0	
o 1	
C 3	
C -1	
Question No.80	4.00
Probability of getting both dice shown the same number when pair of dice are rolled simultaneously	Bookmark □
C 3/6	
O 1/6	
C 2/6	
C 4/6	
Question No.81	4.00
Questionition	4.00 Bookmark
Crumb : Bread ::	
C Flower: Vase	
C Water: Bucket	
C Tea : Cup C Splinter : Wood	
C Spiriter . wood	
Question No.82	4.00 Bookmark ☐
$\frac{1}{n}\sum_{i=1}^{n} x_i-A $ is minimum when A=	
C Median	
© Mode	
C Mean	
© Geometric Mean	
Question No.83	4.00 Bookmark
	BOOKMARK
The function $y = x^2$ over R is	
C Injective	
C Not injective	
© Surjective	
© Not surjective	
Question No.84	
Ullestion No.84	
	4.00
The value of the argument is sent to the function in method.	4.00 Bookmark ☐
The value of the argument is sent to the function in method. © Call by function	
The value of the argument is sent to the function in method. C Call by function C Call by value	
The value of the argument is sent to the function in method. C Call by function C Call by value C Call by reference	
The value of the argument is sent to the function in method. C Call by function C Call by value	
The value of the argument is sent to the function in method. C Call by function C Call by value C Call by reference	
The value of the argument is sent to the function in method. C Call by function C Call by value C Call by reference C Call by name	Bookmark □
The value of the argument is sent to the function in method. C Call by function C Call by value C Call by reference C Call by name	Bookmark □

Question No.78

C 24√5 m	
C 20√2 m	
C 48√2 m	
C 24√3 m	
Question No.86	4.00
Expectation of random variable is usually referred as	Bookmark 🗀
© Range	
○ Mode ○ Median	
© Average	
Question No.87	4.00
Find the odd one out?	Bookmark
© Deduction	
O Deposit	
C Debit C Withdrawal	
Question No.88	4.00 Bookmark □
Statement: Apart from it's entertainment value of Television, it's educational value cannot be ignored	BOOKINAIK
Assumptions: I. People take Television to be the means of entertainment only. II. The educational value of Television is not realized properly	
○ If neither I nor II is implicit	
○ If only assumption II is implicit ○ If both I and II are implicit	
If only assumption I is implicit	
	4.00
Question No.89	4.00 Bookmark
The domain of the reciprocal	
The domain of the reciprocal function of $f(x) = x$ is	
The domain of the reciprocal	
The domain of the reciprocal function of $f(x) = x$ is	
The domain of the reciprocal function of $f(x) = x$ is $ \begin{array}{ccc} (-\infty, \infty) \\ (-\infty, 0) \end{array} $	
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Question No.91

o int days [] = {1,2,3,4,5,6,7};

- char name[];
- C consti = 10; double val [i];

Question No.92

Rookmark □

The integrating factor of

$$(1+y^2)dx = (tan^{-1}y - x)dy$$
 is

- o etanx
- o etan-1y
- o etany
- \circ $e^{tan^{-1}x}$

Question No.93

4.00

Bookmark |

The solution of $\frac{dy}{dx} + \frac{y}{x} = \frac{y^2}{x^2}$ is

- (y-2x)=cxy
- $(y-2x)=cxy^2$
- $(y+2x)=cx^2y$
- $(y-2x)=cx^2y$

Question No.94 4.00 Bookmark

Study the following information carefully and answer the question below it

Lakshman passes through seven lanes to reach his school. He finds that 'Truth lane' is between his house and 'Lie lane'. The third lane from his school is 'Karma lane'. 'Dharma lane' is immediately before the 'Yog lane'. He passes 'Salvation lane' at the end, 'Lie lane' is between 'Truth lane' and 'Dharma lane', the sixth lane from his house is 'Devotion lane'.

If Lakshman's house, each lane and his school are equidistant and he takes 2 minutes to pass one lane, then how long will he take to reach school from his house?

- C 13 minutes
- C 16 minutes
- C 15 minutes
- O 14 minutes

Question No.95 4.00

Bookmark ☐

The point at which the tangent to the curve $y = \sqrt{4x - 3} - 1$ has its slope 2/3 is

$$\theta = \frac{2\pi}{3}$$

$$\theta = \frac{\pi}{3}$$

$$\theta = \frac{\pi}{2}$$

$$\theta = \frac{\pi}{4}$$

Question No.96

Bookmark |

Seeta lives in Chennai and her younger sister Geeta lives in Andaman.Geeta has visited Seeta several times and during the same period Seeta has visited Geeta only once.What Conclusion can be drawn from above?

- C Seeta is older than Geeta
- C Geeta wants to move to Chennai
- C Geeta loves her sister Seeta
- Geeta lives in a boring place

Question No.97 Assertion: -Manmohan Singh is widely recognised as the chief architect of liberalisation in India Reason: - Manmohan Singh was the finance minister who first started opening up the Indian economy in 1991. O A is false but R is true © Both A and R are true and R is not the correct explanation of A ○ A is true but R is false © Both A and R are true and R is the correct explanation of A Question No.98 Bookmark [Select the Pair that best respresents the relationship that is given in the question: Explore : Discover C Tree: Wood C Books : Knowledge C Think : Relate C Research: Learn Question No.99 4.00 The Range of the following data is 23,1,21,24,43,51,15,26,13C 50 O 51 0.1 0 25 Question No.100 4.00 Bookmark □ If "P" represents the variable "z" and number complex $\arg\left(\frac{z-1}{z+3}\right) = \frac{\pi}{2}$, then the locus of "P" is o √3:1 ° √2:1 0 3:1 0 2:1