Examination: M.Tech. Computational Biology	
Section 1 - Section 1	
Question No.1  The probability that a teacher will give an unannounced test during any class meeting is 1/5. If a student is absent twice, then what is probability that the student will miss at least one test?  © 7/25	4.00 Bookmark ☐ the
C 4/5 C 2/5 C 9/25	
Which of the following are the constituents of ideal gas equation? (i) Pressure (ii) Temperature (iii) Volume (iv) ratio of specific heats (v) number of moles of gas molecules  (i) (i), (ii), (iii), (iv) and (v)  (i), (ii) and (iii)  (ii) and (iii) and (v)  (i), (ii), (iii) and (v)	4.00 Bookmark ☐
Question No.3  For a simple enzymatic reaction, what is the value of the initial velocity when (S) = 2Km?  ○ 2Vmax  ○ ½ Vmax  ○ 2/3 Vmax  ○ Vmax	4.00 Bookmark ┌┐
Firewalls are used to protect a communication network system against  Data-driven attacks  Unauthorized attacks  Virus attacks  Fire-attacks	4.00 Bookmark ┌┐
Question No.5  Due to, the subways were closed all morning.  flood are flooded floods tis flooding	4.00 Bookmark ☐
Question No.6  A die is thrown 7 times, what is the chance that an odd number turns up at least 4 times?  1/3  1/7  1/4  1/2	4.00 Bookmark
Question No.7  Organelle found in plant seeds that oxidise stored lipids as source of carbon and energy for growth are  O lysosomes O choloroplasts	4.00 Bookmark ┌┐

C glyoxysomes C peroxisomes		
Question No.8		4.00
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 photograph 3. Photographer A is married to D who is a reporter. 4. The writer is married to B who is of the same profession 5. A,B,C,D are two married couples and no one in this belo 6. F is the brother of C.	her and one writer in the group.	Bookmark
Which of the following is the pair of reporters?  C AE C DF C Cannot be determined DE		
Question No.9		4.00
X is twice as good a workman as Y and together they finish C 25 C 26 C 28 C 27	h a piece of work in 18 days. In how many days will X alone finish the work	
Question No.10		4.00 Bookmark
The minimum number of temporary variables needed to sw 0 0 3 0 1 0 2	vap the contents of two variables is	DOOMINATE OF
Question No.11		4.00
- Automotiviti		
An example of a co-dominant marker is  C AFLP marker C RAPD marker C SSR marker C ISSR marker		Bookmark □
An example of a co-dominant marker is  C AFLP marker  RAPD marker  SSR marker		
An example of a co-dominant marker is  C AFLP marker  RAPD marker  SSR marker		
An example of a co-dominant marker is  C AFLP marker C RAPD marker C SSR marker C ISSR marker	p B and choose the right option given below.  Group B  (1) conservation of mass  (2) thermal equilibrium  (3) conservation of energy  (4) entropy	Bookmark ☐

Question No.13  Genes that are located at identical loci of homologous chromosomes are called  pseudogenes  alleles  polygenes  homozygous	4.00 Bookmark □
Question No.14	4.00
If $X = \begin{bmatrix} a & 0 \\ 1 & 1 \end{bmatrix}$ and $Y = \begin{bmatrix} 1 & 0 \\ 5 & 1 \end{bmatrix}$ then what is the value of 'a' for which $X^2 = Y$ ?  O 4  O -1  O no real values  O 1	Bookmark
Question No.15	4.00 <b>Bookmark</b> □
The acetyl gropus required for Cytoplasmic fatty acid biosynthesis generated due to activity of citrate synthase	
isocitrate dehydrogenase	
○ isocitratelyase	
C citrate lyase	
C citrate lyase	
C citrate lyase  Question No.16	4.00 Bookmark ┌─
Question No.16	4.00 Bookmark ┌─
Question No.16	
Question No.16	
Question No.16   What is the value of $\int_0^{2\pi} sin^{100}xcos^{99}xdx$ ?	
Question No.16   What is the value of $\int_0^{2\pi} sin^{100}xcos^{99}xdx$ ?	Bookmark <u></u> □
Question No.16   What is the value of $\int_0^{2\pi} sin^{100}xcos^{99}xdx$ ? $\begin{array}{c} 0 \\ 0 \\ 1 \\ 0 \\ 10 \\ 0 \end{array}$ Question No.17	
Question No.16  What is the value of $\int_0^{2\pi} sin^{100}xcos^{99}xdx$ ?  O O O O O O O O O O O O O O O O O O	Bookmark  4.00
Question No.16  What is the value of $\int_0^{2\pi} sin^{100}xcos^{99}xdx$ ?  C 0 C 1 C 10 C 9  Question No.17  C was primarily developed as a C systems programming language C data processing language	Bookmark  4.00
Question No.16  What is the value of $\int_0^{2\pi} sin^{100}xcos^{99}xdx$ ?  © 0 © 1 © 10 © 9  Question No.17  C was primarily developed as a © systems programming language © data processing language © general purpose language	Bookmark  4.00
Question No.16  What is the value of $\int_0^{2\pi} sin^{100}xcos^{99}xdx$ ?  C 0 C 1 C 10 C 9  Question No.17  C was primarily developed as a C systems programming language C data processing language	Bookmark  4.00
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Question No.16  What is the value of $\int_0^{2\pi} sin^{100}xcos^{99}xdx$ ?  C 0 C 1 C 10 C 9  Question No.17  C was primarily developed as a C systems programming language C data processing language C general purpose language C simulation language C simulation language  Question No.18  Integer division results in	Bookmark  4.00  Bookmark
$\begin{array}{c} \textbf{Question No.16} \\ \\ \textbf{What is the value of } \int_0^{2\pi} sin^{100}xcos^{99}xdx ? \\ & c \text{ 0} \\ & c \text{ 1} \\ & c \text{ 10} \\ & c \text{ 9} \\ \\ \\ \textbf{Question No.17} \\ \textbf{C was primarily developed as a} \\ & c \text{ systems programming language} \\ & c \text{ data processing language} \\ & c \text{ general purpose language} \\ & c \text{ simulation language} \\ \\ & \textbf{C simulation language} \\ \\ \\ \textbf{Duestion No.18} \\ \\ \\ \textbf{Integer division results in} \\ & c \text{ overflow} \\ \\ \end{array}$	4.00 Bookmark
Question No.16  What is the value of $\int_0^{2\pi} sin^{100}xcos^{99}xdx$ ?  C 0 C 1 C 10 C 9  Question No.17  C was primarily developed as a C systems programming language C data processing language C general purpose language C simulation language C simulation language  Question No.18  Integer division results in	4.00 Bookmark
Question No.16  What is the value of $\int_0^{2\pi} sin^{100}xcos^{99}xdx$ ?  C 0 C 1 C 10 C 9  Question No.17  C was primarily developed as a C systems programming language G data processing language G general purpose language S simulation language What is the value of $\int_0^{2\pi} sin^{100}xcos^{99}xdx$ ?  Question No.17  C was primarily developed as a C systems programming language G simulation language  Userian No.18  Integer division results in C overflow C truncation	4.00 Bookmark
	4.00 Bookmark
Question No.16  What is the value of $\int_0^{2\pi} sin^{100}xcos^{99}xdx$ ?  © 0 © 1 © 10 © 9  Question No.17  C was primarily developed as a © systems programming language © data processing language © general purpose language © simulation language  Question No.18  Integer division results in © overflow © truncation © rounding © modulation	4.00 Bookmark

C Panthothenate

© Riboflavin © Tyrosine	
Question No.20	4.00
A function f: R→R satisfies sinxcosy (f(2x+2y)- (f(2x-2y)) =cosxsiny (f(2x+2y)- f(2x-2y)) If f'(0) =1/2 then which of the statement i  of "(x) = f(x) = 0  of "(x) - f(x)=0  of "(x) + f(x)=0  of "(x) + f(x)=0	Bookmark ☐ s true?
Question No.21	4.00
Which amino acid side chain forms the Schiff's base with the substrate in the aldolase reaction?  Ser  Lys  Tyr  Arg	Bookmark
Question No.22	4.00
As a country, the United States is that there are five time zones.  o too big o very big o much big o so big	Bookmark □
Question No.23	4.00
What is the integrating factor of differential equation $cosx\frac{dy}{dx}$ +ysinx=1?  our sinx our tanx our secx our cosx	Bookmark
Question No.24	4.00
Choose the best antonym of the italicized word. The task assigned to him was arduous.  © good © absorbing © plain © easy	Bookmark
Question No.25	4.00 Bookmark □
Let A,B, C be three mutually independent events. Consider the two statements S <sub>1</sub> and S <sub>2</sub> S <sub>1</sub> : A and BUC are independent S <sub>2</sub> : A and BC are independent Then C only S1 is true O only S2 is true D both S1 and S2 are true neither S1 nor S2 is true	

Question No.26	4.00
	Bookmark 🗂
If two angles of a triangle are $\tan^{-1}(2)$ and $\tan^{-1}(3)$ then what is the value of the third angle?	
$\circ$ $\pi$	
$\frac{1}{4}$	
$\circ$ $\pi$	
2	
$\circ$ 3 $\pi$	
$\overline{4}$	
$\circ$ $\pi$	
Question No.27	4.00
Question No.21	Bookmark
Which of the following will be observed in an interaction between two dipoles?  ○ r6	
O r2	
C 1/r6	
O 1/r2	
Question No.28	4.00
	Bookmark [
The mother gripped her child's arm he be trampled.  C lest	
O if not	
O if	
C unless	
Question No.29	4.00
In the following question, the first two words (given in italics) have a definite relationship. Choose one word out of the given four which will fill the blank space and showthe same relationship with the third word as between the first two.	Bookmark □
Truthfulness is to Liar as Loyalty is to?	
© Devotion	
O Traitor	
C Falsehood C Worker	
Question No.30	4.00
Which of the following class of statements usually produce no chiest code when compiled?	Bookmark □
Which of the following class of statements usually produce no object code when compiled?  © Declaration	
○ Unreachable	
C Assignment	
C Cont	
Question No.31	4.00 Bookmark □
Which of the following is a service not supported by the operating system?	•
Compilation Accounting	
C VO operation	
© Protection	
Overtion No 22	4.00
Question No.32	4.00 Bookmark

 $(c \mid \vec{z} \mid \cdot \mid \vec{L} \mid \mid \vec{z} \mid \quad \vec{z} \mid \vec{L} \mid \vec{z} \mid \vec{L} \mid \vec{z} \mid \vec{L} \mid \vec{z} \mid \vec{L} \mid \vec$ 

If $ a  +  b  =  c $ and $a + b = c$ then the angle between $a$ and $b$ is	
$^{\circ}$ $\theta = \pi$ $^{\circ}$ $\theta = 2\pi$	
$\Theta = \pi/3$	
$^{\circ}$ $\Theta=0^{0}$	
Question No.33	4.00 Bookmark □
Which of the following operators takes only integer operands?	BOOKINAIK
c / c *	
C %	
C +	
Question No.34	4.00 Bookmark
Bristle: Brush C Arm: Leg	
© Stage: Chairs	
C Art: Sculpture C Key: Piano	
Question No.35	4.00 Bookmark
A father has 3 children with at least one boy. What is probability that he has 2 boys and 1 girl?  © 1/2	
C 1/4	
© 2/3 © 1/3	
Question No.36	4.00
Question No.50	Bookmark □
If $\vec{a}$ , $\vec{b}$ and $\vec{c}$ are unit vectors such that $\vec{a}$ + $\vec{b}$ + $\vec{c}$ = $\vec{0}$ , then what is the value of $\vec{a}$ . $\vec{b}$ + $\vec{b}$ . $\vec{c}$ -	+ <del>c</del> d ?
o 1/3	
○ 1/2 ○ -3/2	
o -1/2	
Question No.37	4.00 Bookmark
If a hollow sphere filled with water loses its water at a constant rate, the center of mass of the sphere  © moves downward first and then upward	
C exhibits a monotonous upward motion	
© exhibits a monotonous downward motion © remains stationary	
Question No.38	4.00 Bookmark
In which model of database data is stored in tables:  © Network model	

Relational model

C Recreational model Hierarchical model	
Question No.39	4.00
Which of the following is/are true in respect of DeBroglie's hypothesis? (i) electron can behave like a wave (ii) wavelength of electrons depend on their velocities (iii) wavelength of electrons will not depend on their velocities	Bookmark
© (i) and (ii) © (i) and (iii) © (i), (ii) and (iii) © (ii) and (iii)	
Question No.40	4.00
Question 110.75	Bookmark [
If $x = \int_0^y \frac{dt}{\sqrt{1+9t^2}}$ and $\frac{d^2y}{dx^2}$ = ay then what is the value of a ?  or 9  or 0  or 10  or 1	
Question No.41	4.00
If the cell membrane has an ion channel that is equally selective to all ions, this channel will?  C change the resting potential of the neuron  C decrease the resistance of the neuron  C make the cell more excitable  C have no effect on the neuron	Bookmark
Question No.42	4.00
Random priming technique for preparing DNA probes involves the labeling of 6 mer oligonucleotides. What is the number of pocombinations when all the four nucletides are used in the reaction?  © 2096  © 1024  © 4000  © 6000	<b>Bookmark</b> ☐ ossible random
Question No.43	4.00
For a particle undergoing a uniform circular motion with radius r and velocity v, the acceleration is given by  o mv/r  o v2/r  o mv2/r	Bookmark □
C v/r	
Question No.44	4.00
Which of the following represents mammalian mitotic Cyclins C Cyclins A and B	Bookmark
○ Cyclins A and D ○ Cyclins B and D	
C Cyclins B and B	
Question No.45	4.00
	Bookmark □
The number of genotypes in Mendelian dihybrid cross is:	

C 3	
C 16	
© 12 © 9	
Question No.46	4.00
Identify the adverb in the following sentence:	Bookmark [
We looked upwards and saw a bright shooting star	
© shooting	
C upwards	
C bright C looked	
Question No.47	4.00
	Bookmark □
Which of the following is not a command delimeter?	
C & C :	
O new line	
C,	
Question No.48	4.00 Bookmark □
If the atmospheric pressure suddenly drops to 0.5 bar, which of the following is likely to be right?	DOOKIIIAI K
<ul> <li>Trees will find it more difficult to send water to the top</li> </ul>	
C Animals will find it easier to breathe	
C Aquatic plants will grow better due to increased dissolved oxygen	
C Trees will find it easier to send water from the root to the top	
Question No.49	4.00
	1100
If a random variable X assumes the values 0 and 1 with P/X=0\= 3P/X=1\), then variance of X is	Bookmark [
If a random variable X assumes the values 0 and 1 with P(X=0)= 3P(X=1), then variance of X is © 2/16	
C 2/16	
© 2/16 © 3/16	
C 2/16	
© 2/16 © 3/16 © 1/16	
© 2/16 © 3/16 © 1/16 © 4/16	Bookmark
© 2/16 © 3/16 © 1/16	
C 2/16 C 3/16 C 1/16 C 4/16  Question No.50  The process of accessing data stored in a tape is similar to manipulating data on a	Bookmark ☐
C 2/16 C 3/16 C 1/16 C 4/16  Question No.50  The process of accessing data stored in a tape is similar to manipulating data on a C heap	Bookmark ☐
C 2/16 C 3/16 C 1/16 C 4/16   Question No.50  The process of accessing data stored in a tape is similar to manipulating data on a C heap C queue	Bookmark ☐
C 2/16 C 3/16 C 1/16 C 4/16  Question No.50  The process of accessing data stored in a tape is similar to manipulating data on a C heap	Bookmark ☐
C 2/16 C 3/16 C 1/16 C 4/16    Question No.50  The process of accessing data stored in a tape is similar to manipulating data on a C heap C queue C stack C list	Bookmark  4.00  Bookmark
C 2/16 C 3/16 C 1/16 C 4/16   Question No.50  The process of accessing data stored in a tape is similar to manipulating data on a C heap C queue C stack	Bookmark  4.00 Bookmark  4.00
C 2/16 C 3/16 C 1/16 C 4/16  Question No.50  The process of accessing data stored in a tape is similar to manipulating data on a C heap Queue Stack I list  Question No.51  Removal of gene activity A from a linear pathway results in higher than normal levels of transcripts from gene B. A reasonable hypering the stack of the stack	Bookmark ☐  4.00 Bookmark ☐
© 2/16 © 3/16 © 1/16 © 4/16  Question No.50  The process of accessing data stored in a tape is similar to manipulating data on a © heap © queue © stack © list  Question No.51  Removal of gene activity A from a linear pathway results in higher than normal levels of transcripts from gene B. A reasonable hypbe that	Bookmark ☐  4.00 Bookmark ☐
C 2/16 C 3/16 C 1/16 C 1/16 C 4/16  Question No.50  The process of accessing data stored in a tape is similar to manipulating data on a C heap Queue Stack I list  Question No.51  Removal of gene activity A from a linear pathway results in higher than normal levels of transcripts from gene B. A reasonable hyp be that Gene B must act upstream of Gene A	Bookmark ☐  4.00 Bookmark ☐
© 2/16 © 3/16 © 1/16 © 4/16  Question No.50  The process of accessing data stored in a tape is similar to manipulating data on a © heap © queue © stack © list  Question No.51  Removal of gene activity A from a linear pathway results in higher than normal levels of transcripts from gene B. A reasonable hypbe that	Bookmark ☐  4.00 Bookmark ☐
Cuestion No.50  The process of accessing data stored in a tape is similar to manipulating data on a heap queue stack list  Question No.51  Removal of gene activity A from a linear pathway results in higher than normal levels of transcripts from gene B. A reasonable hype that Gene B must act upstream of Gene A Gene B acts downstream of Gene A and is regulated by A directly or indirectly	Bookmark ☐  4.00 Bookmark ☐
Cuestion No.50  The process of accessing data stored in a tape is similar to manipulating data on a  C heap  Question No.51  Cuestion No.51  Removal of gene activity A from a linear pathway results in higher than normal levels of transcripts from gene B. A reasonable hyp be that  Gene B must act upstream of Gene A  Gene B acts downstream of Gene A and is regulated by A directly or indirectly  The increase in transcript B abundance is an experimental error  Gene A has no relation to transcripts of Gene B	Bookmark ☐  4.00 Bookmark ☐  4.00 Bookmark ☐  othesis would
C 2/16 C 3/16 C 1/16 C 1/16 C 4/16  C	Bookmark ☐  4.00 Bookmark ☐
Cuestion No.50  The process of accessing data stored in a tape is similar to manipulating data on a  heap  queue  stack  list  Cuestion No.51  Removal of gene activity A from a linear pathway results in higher than normal levels of transcripts from gene B. A reasonable hype that  Gene B must act upstream of Gene A  Gene B acts downstream of Gene A and is regulated by A directly or indirectly  The increase in transcript B abundance is an experimental error  Gene A has no relation to transcripts of Gene B  Question No.52  If Milk is water, water is sugar, sugar is road, road is sky and sky is track where do aeroplanes fly?	Bookmark ☐  4.00 Bookmark ☐  4.00 Chesis would
Cuestion No.50  The process of accessing data stored in a tape is similar to manipulating data on a heap queue stack list  Question No.51  Removal of gene activity A from a linear pathway results in higher than normal levels of transcripts from gene B. A reasonable hyp be that Gene B must act upstream of Gene A Gene B acts downstream of Gene A and is regulated by A directly or indirectly The increase in transcript B abundance is an experimental error Gene A has no relation to transcripts of Gene B  Question No.52  If Milk is water, water is sugar, sugar is road, road is sky and sky is track where do aeroplanes fly? Milk	Bookmark ☐  4.00 Bookmark ☐  4.00 Chesis would
Cuestion No.50  The process of accessing data stored in a tape is similar to manipulating data on a  heap  queue  stack  list  Cuestion No.51  Removal of gene activity A from a linear pathway results in higher than normal levels of transcripts from gene B. A reasonable hyp be that  Gene B must act upstream of Gene A  Gene B acts downstream of Gene A and is regulated by A directly or indirectly  The increase in transcript B abundance is an experimental error  Gene A has no relation to transcripts of Gene B  Cuestion No.52  If Milk is water, water is sugar, sugar is road, road is sky and sky is track where do aeroplanes fly?  Milk  Road	Bookmark ☐  4.00 Bookmark ☐  4.00 Chesis would
Cuestion No.50  The process of accessing data stored in a tape is similar to manipulating data on a heap queue stack list  Question No.51  Removal of gene activity A from a linear pathway results in higher than normal levels of transcripts from gene B. A reasonable hyp be that Gene B must act upstream of Gene A Gene B acts downstream of Gene A and is regulated by A directly or indirectly The increase in transcript B abundance is an experimental error Gene A has no relation to transcripts of Gene B  Question No.52  If Milk is water, water is sugar, sugar is road, road is sky and sky is track where do aeroplanes fly? Milk	Bookmark ☐  4.00 Bookmark ☐  4.00 Chesis would

Cuestion No.53  The basic unit of chromatin nucleosome consists of  H1 H2B, H3, H4 histones and 200 bp of DNA  H1, H2, H3, H4 histones and 180 bp of DNA  H2A, H2B, H3, H4 histones and 140 bp of DNA  DNA polymerase, DNA helicase and histones	4.00 Bookmark
Question No.54  The normal rate of infection of a certain disease in animals is known to be 40%. In an experiment with 6 animals injected with a new was observed that none of the animals caught infection. What is the probability of the observed result?  © 0.0467  © 0.0041  © 0.467	4.00 <b>Bookmark</b>
These poultry belong to Mr. Kishen, our new neighbor The underlined word is anoun.  c abstract c common c collective proper	4.00 Bookmark
A recombinant vaccine is available for which one of the following cancers?  C Adult T cell leukemia C Colon carcinoma C Cervical carcinoma G Glioblastoma	4.00 Bookmark
There are n locks and n matching keys. If all the locks and keys are to be perfectly matched, then what is the maximum number of to open a lock? $\frac{n(n-1)}{2}$ $\frac{n}{2}$ $\frac{n}{2}$ $\frac{(n+1)}{2}$ $\frac{n(n+1)}{2}$	4.00 Bookmark ☐ rials required
Major gluconeogenesis occurs in C Liver and skeletal muscle Liver and adrenal gland Liver and heart Liver and kidney	4.00 Bookmark
Question No. 50	4.00

Bookmark

How many microliters of 0.1 M solution of solution of sodium chloride will make 10 ml of 5 mM sodium chloride?	
O 10	
C 100	
○ 200	
O 500	
Question No.60	4.00
Study the following information carefully and answer the question below it	ookmark 🗆
The Director of an MBA college has decided that six guest lectures on the topics of Motivation, Decision Making, Quality Circle, Assess	sment
Centre, Leadership and Group Discussion are to be organised on each day from Monday to Sunday.	, inche
(i) One day there will be no lecture (Saturday is not that day), just before that day Group Discussion will be organised.	
<ul><li>(ii) Motivation should be organised immediately after Assessment Centre.</li><li>(iii) Quality Circle should be organised on Wednesday and should not be followed by Group Discussion</li></ul>	
(iv) Decision Making should be organised on Friday and there should be a gap of two days between Leadership and Group Discussion	ı
Which of the pairs of lectures were organised on first and last day?	
© Quality Circle and Motivation	
© Group Discussion and Quality Circle	
© Group Discussion and Decision Making	
○ None of these	
Question No.61	4.00
Anand is heavier than Gopal.Mohan is lighter than Jagan.Pandian is heavier than Jagan but lighter than Gopal. Who is the heaviest of al	ookmark □
© Anand	
© Pandian	
© Jagan	
© Gopal	
Question No.62	4.00
В	ookmark 🗆
$  \pitchfork   \leftarrow   \square   ?  $	
(A) (B) (C) (D)	
O D	
0 C	
O A	
ОВ	
Question No.63	4.00
	ookmark [
The following plant hormone is synthesized from an amino acid precursor	
O Auxin	
© Cytokinin	

Abscissic acidEthylene

Question No.64	4.00
Constructor is called whenever	Bookmark □
○ an object is declared	
O a class is used	
<ul><li>○ a class is declared</li><li>○ an object is used</li></ul>	
Question No.65	4.00 Bookmark □
If all the 4 bases have equal probability of occurrence in a genome, approximately how many times will EcoRI cut in this genome if the si	
the circular DNA is 1 Mbp?	
C 6000	
○ 1000	
© 10 power 6	
Question No.66	4.00
В	Bookmark □
Choose the best synonym of the italicized word.  Reena has an <i>insatiable</i> love for music.	
O undesirable	
© unchanging	
© irreconcilable © unquenchable	
- unquototiable	
Question No.67	4.00
В	Bookmark □
Assertion: Crude oil is abundantly found in nature	
Reason: It is the main raw material for all automobiles	
<ul> <li>○ Both A and R are true and R is not the correct explanation of A</li> <li>○ Both A and R are true and R is the correct explanation of A</li> </ul>	
© A is true but R is false	
C A is false but R is true	
Question No.68	4.00
В	Bookmark □
Which is the weakest interaction?  • A covalent bond between the O and H atoms of water	
© A hydrogen bond between two water molecules	
C A van der waals interaction between two methyl groups	
C An ionic interaction between a carboxylic acid and an amine	
Question No.69	4.00
	Bookmark □
What is the solution of the differential equation $(x_1, 2x_3)^{dy} = x_1^2$	
What is the solution of the differential equation $(x+2y^3)\frac{dy}{dx} = y$ ?	
$\frac{y}{x} = x^2 + c$	
$\frac{x^2}{y} = y^2 + c$	
$\frac{x}{y} = y^2 + c$	
$\frac{x}{y^2} = y + c$	
Question No.70	4.00

Which of the following abstract data types can be used to represent a many to many relation?

∩ Linkad liet

Bookmark 🗆

© Graph	
↑ Queue	
Question No.71	4.00
The immunoglobin fold is made up of	Bookmark □
© a sandwich of two antiparallel beta sheets	
○ a beta barrel	
© seven alpha helical segments	
ି a sandwich of two parallel beta sheets	
Question No.72	4.00 Bookmark
The effect of natural selection may be countered by	BOOKIIIAI K
○ gene flow	
© mutation	
○ genetic drift ○ inbreeding	
U inbreeding	
Question No.73	4.00
	Bookmark 🗆
For a group containing 100 observations, the mean and the standard deviation are 8 and $\sqrt{10.5}$ ,	
respectively. For 50 observations selected from these 100 observations, the mean and standard deviation are 10 and 2, respectively. The values of the mean and standard deviation for the other half	
are	
0 3,9	
© 5,10 © 2,4	
0 6,3	
Question No.74	4.00
	4.00 Bookmark <u></u>
Question No.74  Rutherford's atomic theory basically formulated after an experiment with   α particles	
Rutherford's atomic theory basically formulated after an experiment with α particles	
Rutherford's atomic theory basically formulated after an experiment with  α particles  γ rays	
Rutherford's atomic theory basically formulated after an experiment with α particles	
Rutherford's atomic theory basically formulated after an experiment with  α particles  γ rays  X-rays	
Rutherford's atomic theory basically formulated after an experiment with  α particles  γ rays	
Rutherford's atomic theory basically formulated after an experiment with	
Rutherford's atomic theory basically formulated after an experiment with  α particles  γ rays  X-rays	Bookmark
Rutherford's atomic theory basically formulated after an experiment with  α particles  γ rays  α X-rays  β particles  Question No.75	Bookmark ☐
Rutherford's atomic theory basically formulated after an experiment with	Bookmark ☐
Rutherford's atomic theory basically formulated after an experiment with $^{\circ}$ $\alpha$ particles $^{\circ}$ $\gamma$ rays $^{\circ}$ X-rays $^{\circ}$ $\beta$ particles $^{\circ}$ Question No.75 $^{\circ}$ Which of the following represent Heisengberg's uncertainty principle? (i) $\Delta x \Delta p \geq \hbar/2$	Bookmark ☐
Rutherford's atomic theory basically formulated after an experiment with	Bookmark ☐
Rutherford's atomic theory basically formulated after an experiment with $^{\circ}$ $\alpha$ particles $^{\circ}$ $\gamma$ rays $^{\circ}$ X-rays $^{\circ}$ $\beta$ particles $^{\circ}$ Question No.75 $^{\circ}$ Which of the following represent Heisengberg's uncertainty principle? (i) $\Delta x \Delta p \geq \hbar/2$	Bookmark ☐
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Question No.76	4.00
Which of the following shell script's does not recognize the break command?	Bookmark □
○ goto ○ while	
ି for ି until	
	4.00
Question No.77	4.00 Bookmark
What is the protein found in human hair and finger nails, as well as horns, wool, claws, bird beaks and spider webs?  © Glycogen	
○ Keratin ○ Collagen	
© Cellulite	
Question No.78	4.00
Arrange the following in the increasing order of their frequencies	Bookmark □
(i) ultra violet (ii) infra red (iii) x-rays (iv) radio frequency ⓒ (iv), (iii), (ii), and (i	
C (iv), (ii), (ii), and (iii)         C (i), (ii), (iii), and (iv)	
© (iii), (i), (ii), and (iv)	
Question No.79	4.00
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?	4.00 Bookmark □
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  O Hydrophobic interaction chromatography  C Cation exchange chromatography  Anion exchange chromatography	
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  O Hydrophobic interaction chromatography O Cation exchange chromatography O Anion exchange chromatography O Gel filtration chromatography	Bookmark
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  O Hydrophobic interaction chromatography O Cation exchange chromatography O Anion exchange chromatography O Gel filtration chromatography  Question No.80	
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  O Hydrophobic interaction chromatography O Cation exchange chromatography O Anion exchange chromatography O Gel filtration chromatography	Bookmark □
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  O Hydrophobic interaction chromatography O Cation exchange chromatography O Anion exchange chromatography O Gel filtration chromatography  Question No.80  Which of the following is not a character special file?	Bookmark □
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  C Hydrophobic interaction chromatography C Cation exchange chromatography Anion exchange chromatography Gel filtration chromatography  Question No.80  Which of the following is not a character special file? C Terminal C Tape Drive	Bookmark □
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  O Hydrophobic interaction chromatography O Cation exchange chromatography O Anion exchange chromatography O Gel filtration chromatography  Question No.80  Which of the following is not a character special file? O Terminal O Tape Drive O Modem	Bookmark ☐  4.00  Bookmark ☐
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  Cation exchange chromatography Anion exchange chromatography Gel filtration chromatography  Which of the following is not a character special file? Terminal Tape Drive Modem Printer  Question No.81  Void can be used	Bookmark ☐  4.00  Bookmark ☐
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  Cation exchange chromatography Anion exchange chromatography Gel filtration chromatography  Question No.80  Which of the following is not a character special file? Terminal Tape Drive Modem Printer	Bookmark ☐  4.00  Bookmark ☐
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  C Hydrophobic interaction chromatography Cation exchange chromatography Gel filtration chromatography  Which of the following is not a character special file? Terminal Tape Drive Modem Printer  Question No.81  Void can be used O outside the brackets of a function that represent the function returns value in an expression D in an comment line statement	Bookmark ☐  4.00  Bookmark ☐
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  Hydrophobic interaction chromatography Cation exchange chromatography Anion exchange chromatography Gel filtration chromatography  Which of the following is not a character special file? Terminal Tape Drive Modem Printer  Question No.81  Void can be used outside the brackets of a function that represent the function returns value in an expression	Bookmark ☐  4.00  Bookmark ☐
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  C Hydrophobic interaction chromatography C Cation exchange chromatography C Anion exchange chromatography C Gel filtration chromatography  Question No.80  Which of the following is not a character special file? C Terminal C Tape Drive Modem C Printer  Question No.81  Void can be used C outside the brackets of a function that represent the function returns value C in an expression C b. in an comment line statement C a datatype of a function that returns nothing to its calling environment	4.00 Bookmark □  4.00 Bookmark □
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  C Hydrophobic interaction chromatography C Cation exchange chromatography C Anion exchange chromatography C Gel filtration chromatography C Gel filtration chromatography  Which of the following is not a character special file? C Terminal C Tape Drive C Modem C Printer  Question No.81  Void can be used C outside the brackets of a function that represent the function returns value C in an expression C b. in an comment line statement C a datatype of a function that returns nothing to its calling environment	Bookmark ☐  4.00  Bookmark ☐
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  C Hydrophobic interaction chromatography C Cation exchange chromatography Anion exchange chromatography Gel filtration chromatography  Which of the following is not a character special file? Terminal Tape Drive Modem Printer  Question No.81  Void can be used outside the brackets of a function that represent the function returns value in an expression b. in an comment line statement a datatype of a function that returns nothing to its calling environment  Question No.82  cout stands for class output	4.00 Bookmark □  4.00 Bookmark □  4.00 A.00
Which one of the following techniques will be the most appropriate to separate dCTP from a mixture of dCTP, dCDP, dCMP?  C Hydrophobic interaction chromatography Cation exchange chromatography Anion exchange chromatography Gel filtration chromatography  Which of the following is not a character special file? Terminal Tape Drive Modem Printer  Question No.81  Void can be used Outside the brackets of a function that represent the function returns value in an expression Delinary in an comment line statement Outside the discontinuation of the function of the calling environment  Question No.82  Cout stands for	4.00 Bookmark □  4.00 Bookmark □  4.00 A.00

Ougstion No 83

quotien noise	Bookmark □
Which of the following diffraction helps us to solve the structures of macromolecules?	_
O UV rays	
radio frequency rays.	
O Infrared rays	
○ X-rays	
Question No.84	4.00
QUESTION NO.07	Bookmark [
The resolution of a diffraction grating is independent of	
intensity of incident light	
number of grating lines	
© wavelength of incident light	
O order of the diffraction	
Question No.85	4.00
The manifestion of discounting an away can have in C in	Bookmark 🗆
The maximum number of dimension an array can have in C is C 3	
0 5	
0 4	
© compiler dependent	
The state of the s	
Question No.86	4.00
0.4 40.7	Bookmark □
Statement (S): The gun recoils in the opposite direction of its firing.  Reason1 (R1): For every action there is an equal and opposite reaction.	
Reason2 (R2): Mass can neither be created nor destroyed.	
Only S and R2 are true; R2 is the right reason for S.	
S, R1 and R2 are true; R1 is the right reason of S.	
© S, R1, and R2 are true; R2 is the right reason of S.	
© S, R1, and R2 are true; both R1 and R2 are reasons for S.	
Question No.87	4.00
Question No.01	Bookmark [
The following program fragment	
for ( i = 1; i < 5; ++i)	
if(i == 3) continue;printf("%d,", i); results in the printing of	
○ 1,2,3,4 ○ 1,2,4	
© 2,4,5	
O 1,2,4,5	
∪ 1,2,4,3	
Question No.88	4.00
	Bookmark □
Between any two real roots of the equation e <sup>x</sup> sinx -1=0, the equation e <sup>x</sup> cosx +1=0 has	
O no root	
O at least one root	
at most one root	
C exactly one root	
Question No.89	4.00
Quedal Hours	Bookmark [

Why are rifamycins especially useful for studying transcription?

	<ul> <li>Because they block RNA chain elongation, but do not inhibit RNA polymerase binding to the promoter nor formation of the iniphophodiester bond</li> <li>Because they such high affinity for duplex DNA</li> </ul>	tial
	Decause trey such right annuity for duplex DNA	
	Question No.90	4.00 Bookmark
	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 fourtright of Himesh while second to the left of Farhan. Charan is not the neighbour of Farhan and Bhuvnesh. Danesh sits third to the right Himesh never sits next to Ganesh.	
	Who is to the immediate left of Aasha?  © Bhuvnesh	
	C Aasha	
	<ul><li>○ Ganesh</li><li>○ Charan</li></ul>	
	C Charan	
	Question No.91	4.00
	Which of the following language is case sensitive?	Bookmark
	C BASIC C VB	
	○ C	
	○ COBOL	
_		
	Question No.92	4.00 Bookmark
	The dominant force between a proton and an electron is	Dookmark [
	C Centripetal force C Gravitational force	
	© moment of inertia	
	© Colombian force	
	Question No.93	4.00
		Bookmark □
	Assume that each born child is equally likely to be a boy or a girl. If a family has two children, what is the conditional probability that b girls given that the youngest is a girl?	oth are
	C 1/4	
	C 1/3 C 1/2	
	C 1/8	
_	Outside No 04	4.00
	Question No.94	4.00 Bookmark □
	Choose the missing term: SHG, RIF, QJE, PKD, ? C OLD	
	© MLB	
	○ NMD	
	C OLC	
	Question No.95	4.00
	Which data structure is called as FIFO	Bookmark [
	© Heap	
	C Queue	
	○ Stack ○ Graph	
_		
	Question No.96	4.00 Bookmark

 $\,\,\,\,\,\,\,\,\,\,$  Because they such high affinity for single stranded RNA

In an isothermal process, which of the following remains constant?

© temparature	
C pressure	
C volume	
C enthalpy	
Over-time No 07	1.00
Question No.97	4.00 Bookmark
	DOOKIIIAIK [_
If the system of equations x-ky-z=0, kx-y-z=0, x+y-z=0 has a non zero solution, then what are the possible values of k?	
C -1,2	
C 1,2	
O 0,1	
C -1,1	
Question No.98	4.00
Question No.50	Bookmark □
Study the following information carefully and answer the question below it	
(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?	
O (iii)	
O (ii)	
O Nill	
○ (iv)	
Question No.99	4.00
The electric field at the centre of a hollow conducting sphere of radius r is	Bookmark □
C independent of r	
© inversely proportional to r2	
© directly proportional to r2	
C directly proportional to r	
C directly proportional to 1	
Question No.100	4.00
	Bookmark □
Correct the error in the italicized part of the sentence by choosing the most appropriate option.	
Whenever the two sisters <i>go out for shopping,</i> they take their pet dog with them.  © go out to shopping	
© go out shopping	
© go out on shopping	
© go out of shopping	
O go out of anopping	