Roll No:
Application No:
Name:
Exam Date: 05-Oct-2020
Exam Time: 09:00-12:00
Examination: 1. Course Code - M. Tech.;M.P.H.;P.G.
Diploma in Bigdata 2. Field of Study – Big Data Analytics (BCDT)
2. Field of Study - Dig Data Analytics (FGDT)
<b>Question No.1 (Question Id - 59)</b> In Python, what is the most convenient way to write one long string in file (e.g. text file) ?
$(\Lambda) \bigcirc \text{opon}(\text{file tyt}) (w) \text{ write(all the text) (Correct Answer)}$
$(A) \bigcirc \text{open}(\text{file txt}), \text{ where}(\text{an_time_text})$ (correct Answer)
(B) $\bigcirc$ open(file.txt).write(all_the_text)
$(C) \bigcirc \text{open(ine.txt), withe(an_tre_text)}$
$(D) \bigcirc$ open(file.txt), wf .write(all_the_text)
Question No. 2 (Question Id., 22)
What would be the value of $10^{\circ}$ $10^{\circ}$ $2^{\circ}$
(A) $\bigcirc$ 252
$(A) \bigcirc 252$
$(B) \bigcirc 242 \text{ (Correct Answer)}$
$(C) \bigcirc 625$
(D) () 490
Question No.3 (Question Id - 1) A protein solution of concentration 0.2 mM has an absorbance of 0.35. Find the concentration of the solution if the absorbance is 0.63 when both of the solutions were measured in the same cuvette.
$(A) \bigcirc 3.6 \text{ mM}$
$(B) \bigcirc 36 \mu\text{M}$
$(C) \bigcirc 360 \ \mu\text{M} (Correct Answer)$
(D) 🔾 36 mM
Question No.4 (Question Id - 32)         For a positive skewed distribution, the value of the mean is :         (A)        less than median         (B)        less than mode         (C)        greater than median and mode (Correct Answer)         (D)        always zero
Question No.5 (Question Id - 42) If a Poisson Variate X is such that $P(X = 1) = P(X = 2)$ , then P(X = 4) is : (Given that $e^{-2} = 0.1353$ )
(A) O 0.09 (Correct Answer)
(B) 🔿 0.009
(C) 〇 0.9
(D) 🔿 0.0009

**Question No.6 (Question Id - 39)** The coefficient of correlation between two variables X and Y is 0.75. The covariance is 36. The variance of X is 16. Then the standard deviation of Y (i.e,  $\sigma_Y$ ) will be given by

(A) 🔿 16

(B) 🔿 14

(C) ○ 12 (Correct Answer) (D) ○ 36
Question No.7 (Question Id - 84)         A polymerase chain reaction (PCR) requires :         (A)        dNTPs, Taq Polymerase and primers (Correct Answer)         (B)        Primers, Restriction endonuclease and dNTPs         (C)        DNA template, taq Polymerase and nuclease         (D)        dNTPs, RNA template and primers
Question No.8 (Question Id - 99) Which pipeline can be used for the gene prediction in eukaryotic genomes ?
<ul> <li>(A) ○ Augustus (Correct Answer)</li> <li>(B) ○ MAKER (Correct Answer)</li> <li>(C) ○ Augustus and MAKER (Correct Answer)</li> <li>(D) ○ GRAIL and PYTHIA</li> </ul>
Question No.9 (Question Id - 17) A and B could finish a given piece of work in 10 and 15 days, respectively. They worked together for 3 days and then B left. A finished the rest of the work alone. The total work was finished in :
<ul> <li>(A) ○ 6 days</li> <li>(B) ○ 8 days (Correct Answer)</li> <li>(C) ○ 13 days</li> <li>(D) ○ 9 days</li> </ul>
<b>Question No.10 (Question Id - 47)</b> How is variance affected if each observation of a set is divided by 10 ?
$(A) \bigcirc 1 \\ 10 \\ (B) \bigcirc 1 \\ 100 \\ (Correct Answer) \\ (C) \bigcirc 1 \\ 1000 \\ (D) \bigcirc 10^2 $
Question No.11 (Question Id - 53)         In C, how many arguments fseek() function takes ?         (A)       2         (B)       4         (C)       3 (Correct Answer)         (D)       1
Question No.12 (Question Id - 89) How many possible number of phylogenetic trees can be made with four sequences ?
(A)3 (Correct Answer)(B)16(C)24(D)6

One sequence in FASTQ format is defined in how many lines ?
<ul> <li>(A) ○ 3</li> <li>(B) ○ 4 (Correct Answer)</li> <li>(C) ○ 2</li> <li>(D) ○ 5</li> </ul>
<b>Question No.14 (Question Id - 35)</b> For a moderately skew distribution, what relationship between mean, median and mode exists ?
<ul> <li>(A) O Mean - Mode = 3(Mean - Median) (Correct Answer)</li> <li>(B) Mean + Mode = 3(Mean + Median)</li> <li>(C) 2(Mean - Mode) = 3(Mean - Median)</li> <li>(D) 3(Median - Mean) = 4(Mean - Median)</li> </ul>
<b>Question No.15 (Question Id - 29)</b> The probability of no cars arriving in a 10 minutes interval is 0.4. Find the probability of at least one car arriving in that 10 minutes interval.
<ul> <li>(A) ○ 0.1</li> <li>(B) ○ 0.5</li> <li>(C) ○ 0.4</li> <li>(D) ○ 0.6 (Correct Answer)</li> </ul>
<b>Question No.16 (Question Id - 86)</b> A protein was found to be localized in plasma membrane of the cell. What could be possible function of the protein ?
<ul> <li>(A) Transcription factor</li> <li>(B) Receptor (Correct Answer)</li> <li>(C) Protein degradation</li> <li>(D) Translation</li> </ul>
Question No.17 (Question Id - 74)In C, what is the value of sizeof(float) ?(A) $\bigcirc$ 3(B) $\bigcirc$ 4 (Correct Answer)(C) $\bigcirc$ 5(D) $\bigcirc$ 6
Question No.18 (Question Id - 70) In C, if we provide 75.50 to scanf() function, what value this function accept ?
<ul> <li>(A) ○ 75.50</li> <li>(B) ○ 75 (Correct Answer)</li> <li>(C) ○ 75.5</li> <li>(D) ○ 75.5000</li> </ul>
Question No.19 (Question Id - 44) In five tossings of a fair coin, find the chances of getting 4 heads.

(A)  $\bigcirc 5_{C_4}\left(\frac{1}{2}\right)^4\left(\frac{1}{2}\right)^1$  (Correct Answer) (B)  $\bigcirc 5_{C_4}\left(\frac{1}{2}\right)^3\left(\frac{1}{2}\right)^3$ 

 $(C) \bigcirc {}_{5}C_{2} \left(\frac{1}{2}\right)^{2} \left(\frac{1}{2}\right)^{5}$ (D)  $\bigcirc {}_{5}C_{2}\left(\frac{1}{2}\right)^{5}\left(\frac{1}{2}\right)^{2}$ 

#### Question No.20 (Question Id - 48)

If a r.v X~N (40, 5<sup>2</sup>), find the probability for the values of X specified as  $31 \le X \le 35$ . Given the areas  $\phi(Z)$  from 0 to Z :

Z	0.8	1.0	1.6	1.8	2.0	3.0
φ(Z)	0.28814	0.34134	0.35543	0.46407	0.47725	0.49865

(A) O 0.12273 (Correct Answer)

- (B) 🔘 0.2273
- (C) O 0.33373
- (D) O 0.00537

#### Question No.21 (Question Id - 20)

Find the least number which when divided by any of 42, 36 and 54 respectively leaves 17 as remainder.

- (A) 🔿 2268
- (B) 🔿 2251

#### (C) O 2285 (Correct Answer)

(D) 🔿 13625

## Question No.22 (Question Id - 3)

Find the value of the expression cos105°+sin135° :



# Question No.23 (Question Id - 19)

If the running profile of a runner is represented by the graph provided here, find the total distance travelled by the runner in the total time of 100 s.



(D) 🔿 1200 m
Question No.24 (Question Id - 4)           Find the hexadecimal equivalent of the number 621.           (A)         D62           (B)         2D6           (C)         26D (Correct Answer)           (D)         2613
<b>Question No.25 (Question Id - 14)</b> A bucket contains 40 litres of water. At a first instance, 2/5 <sup>th</sup> of the water was taken out. Afterwards, 3/8 <sup>th</sup> of the remaining water was again taken out. What would be the amount of water still remaining in the bucket ?
<ul> <li>(A) ○ 25 litres</li> <li>(B) ○ 1 litre</li> <li>(C) ○ 15 litres (Correct Answer)</li> <li>(D) ○ 6 litres</li> </ul>
Question No.26 (Question Id - 65) In C, the syntax of opening a file in standard I/O package is :
<ul> <li>(A) fptr = f open("file", "mode"); (Correct Answer)</li> <li>(B) fptr = f openfile('filename', 'mode');</li> <li>(C) fptr = f open(file &amp;&amp; mode);</li> <li>(D) fptr = f openfile(file=mode);</li> </ul>
<b>Question No.27 (Question Id - 45)</b> If X and Y are two poisson variates such X~P(1) and Y~P(2), the probability $P(X + Y < 3)$ is :
(A) $\bigcirc$ $_{3e^{-3}}$ (B) $\bigcirc$ $e^{-3}$ (Correct Answer) (C) $\bigcirc$ $_{4e^{-3}}$ (D) $\bigcirc$ $_{2e^{-1}}$
Question No.28 (Question Id - 54)         How we can reduce the loop execution time in C ?         (A) ○       Avoid using expressions inside a loop which are independent of the loop. (Correct Answer)         (B) ○       Incorporate the nested loop inside the loop.         (C) ○       Avoid using expression outside the loop.         (D) ○       Incorporate several variables inside the loop which are independent of the loop.
<b>Question No.29 (Question Id - 7)</b> A car is moving at a constant speed of 72 km/hr. At a crossing when the car was at a distance of 400 m, the timer at the signal was showing 8 s left for turning red. Find the acceleration of the car by which it has to be accelerated to cross the signal.
(A) $\bigcirc 6.03 \text{ ms}^{-2}$ (B) $\bigcirc 2.03 \text{ ms}^{-1}$ (C) $\bigcirc 6.03 \text{ ms}^{-1}$ (D) $\bigcirc 2.03 \text{ ms}^{-2}$ (Correct Answer)
Question No.30 (Question Id - 21) A square and an equilateral triangle each have sides of

length 5. What is the ratio of the area of the square to the area of the triangle?
$(A) \bigcirc 4$
3
(B) ○ 16
9
(C) ○ √3
4
(D) ◯ <sub>4√3</sub> (Correct Answer)
Question No.31 (Question Id - 69)
In Python, dir() function defines :
(A) $\bigcirc$ A list of all the articles associated with a type (Correct Answer)
(B) ⊖ A list of all the integers
(C) O Type of attribute
(D) 〇 Sum of all the integers
Question No.32 (Question Id - 25)
If $2 \times 3 = \sqrt{2}$ and $3 \times 4 = 5$ then the value of $5 \times 12$ is
(A) 🔿 15
(B) O J17
(C) $\cap$ 13 (Correct Answer)
$(D) \bigcirc 12$
Question No.33 (Question Id - 31)
The area under the normal curve within its range $-\infty$ to $\infty$ is always :
$(\Delta) \bigcirc$ less than 1
$(B) \bigcirc \text{ creater than 1}$
$(C) \bigcirc \text{unity} (Correct Answer)$
$(D) \bigcirc$ cannot determine
Question No.34 (Question Id - 8)
At 27°C and 750 mm of Hg pressure a gas occupies 600 ml volume. Calculate the pressure at a
height where temperature is 7°C and volume of the gas is 700 ml.
$(A) \bigcirc 650 \text{ mm of Hg}$
$(A) \bigcirc 802 \text{ mm of Hg}$
$(C) \bigcirc 600 \text{ mm of Hg}$
$(D) \bigcirc 620 \text{ mm of Hg}$
Question No.35 (Question Id - 73)
What is the description of function mktime(tuple) in Python ?
(A) O Converts a time tuple to a string
(B) O Converts seconds to a date tuple, local time
(C) O Sleeps for secs seconds
(D) O Converts a time tuple to local time (Correct Answer)
Question No.36 (Question Id - 26)
Let $(X_i, Y_i)$ ; <i>i</i> = 1, 2 n be n pairs of observations and $\rho$ be the correlation coefficient of X and Y.

The standard error is :

(A) 🔿



## Question No.41 (Question Id - 64)

In C, what would be the statement for redefine the data types ?

<ul> <li>(A) ○ type dif</li> <li>(B) ○ type diff</li> <li>(C) ○ type define</li> <li>(D) ○ type def (Correct Answer)</li> </ul>
Question No.42 (Question Id - 80) DNA in chromatin is known to be associated with histone to form nucleosomes. Histones are rich in which of the following amino acids ?
<ul> <li>(A) ○ Asp, Glu</li> <li>(B) ○ Lys, Arg (Correct Answer)</li> <li>(C) ○ Gly, Prol</li> <li>(D) ○ Ser, Thr</li> </ul>
Question No.43 (Question Id - 52) The below question has been dropped and full marks are awarded.
What would be the output of following in Python ? >>> temp=s['x'] >>> temp.append('d') >>> s['x']=temp >>> s['x']
$\begin{array}{l} (A) \bigcirc \ [`a', `b', `c', `d'] \\ (B) \bigcirc \ [`a', `b', `c'] \\ (C) \bigcirc \ [`d', `c', `b', `a'] \\ (D) \bigcirc \ [`d', `a', `b', `c'] \end{array}$
Question No.44 (Question Id - 71) In C, float a[3][3]={{1, 2, 3}, {4, 6, 9}, {3, 2, 7}} what would be the value of a[2][0] ?
<ul> <li>(A) ○ 2</li> <li>(B) ○ 3 (Correct Answer)</li> <li>(C) ○ 6</li> <li>(D) ○ 1</li> </ul>
<b>Question No.45 (Question ld - 93)</b> Consider a B <sup>+</sup> tree in which the maximum number of keys in a node is 7. What is the minimum number of keys in any non-root node ?
$\begin{array}{c c} (A) \bigcirc 1 \\ (B) \bigcirc 3 \ \textbf{(Correct Answer)} \\ (C) \bigcirc 2 \\ (D) \bigcirc 4 \end{array}$
Question No.46 (Question Id - 11)
Find the determinant of the following matrix : $\begin{bmatrix} 4 & 10 & 12 \\ 3 & 2 & 9 \\ 7 & 12 & 21 \end{bmatrix}$
<ul> <li>(A) ○ 1</li> <li>(B) ○ 132</li> <li>(C) ○ 161</li> <li>(D) ○ 0 (Correct Answer)</li> </ul>



Which of the following is not used for predicting a gene in an assembled eukaryotic genome ?

<ul> <li>(A) ORF Location</li> <li>(B) Promoter Location</li> <li>(C) Exon-Intron splice junction</li> <li>(D) Enhancer Location (Correct Answer)</li> </ul>
Question No.53 (Question Id - 88) In an RNA-seq data having 50 fusion transcripts (already known), a tool detected only 20 fusion transcripts. What is the sensitivity of the tool ?
<ul> <li>(A) ○ 50%</li> <li>(B) ○ 40% (Correct Answer)</li> <li>(C) ○ 20%</li> <li>(D) ○ 30%</li> </ul>
Question No.54 (Question Id - 18) 60 mL of 30 mM NaCI solution was mixed with 10 ml of 0.24 M another NaCI solution. The final concentration of the NaCI in the solution is :
<ul> <li>(A) ○ 68 mM</li> <li>(B) ○ 120 mM</li> <li>(C) ○ 60 mM (Correct Answer)</li> <li>(D) ○ 0.03 M</li> </ul>
Question No.55 (Question Id - 62)           In Python, mystr = "my string", then           mystr[4:] will print :           (A)          string           (B)          tring (Correct Answer)           (C)          my st           (D)          my st
Question No.56 (Question Id - 58) Which of the I/O function will not returns a character that has been recently typed in C ?
<ul> <li>(A) ○ getcho() (Correct Answer)</li> <li>(B) ○ getch()</li> <li>(C) ○ getche()</li> <li>(D) ○ getchar()</li> </ul>
Question No.57 (Question Id - 97) One of the following is a typical example of negative feedback gene regulatory network :
<ul> <li>(A) ○ P53-MDM2 (Correct Answer)</li> <li>(B) ○ ROS-MDM2</li> <li>(C) ○ CDC-P53</li> <li>(D) ○ C-myc-MDM2</li> </ul>
Question No.58 (Question Id - 5)



(A)  $\bigcirc$  Curve is leptokurtic at  $\beta_2 = 3.3$  and platykurtic at  $\beta_2 = 2.8$  (Correct Answer)

(B)  $\bigcirc$  Curve is mesokurtic and platykurtic respectively

# $(C) \bigcirc$ Curve is platykurtic and leptokurtic

 $(D) \bigcirc$  Curve is mesokurtic only

## Question No.64 (Question Id - 28)

For a negative skewed distribution, the value of the mode is :

(A)  $\bigcirc$  greater than median and mean (Correct Answer)

- (B) O less than median and mean
- $(C) \bigcirc$  always negative and less than median
- $(D) \bigcirc$  greater than mean and less than mode

#### Question No.65 (Question Id - 36)

Geometric mean of first n natural numbers is given by :

(A)  $\bigcirc$  G =  $(x_1 + x_2 + \dots + x_n)^n$ ,  $x_i \in \mathbb{N}$ (B)  $\bigcirc$ G =  $\left(\frac{1}{x_1} + \frac{1}{x_2} + \dots + \frac{1}{x_n}\right)^{\frac{1}{n}}$ ,  $x_i \in \mathbb{N}$ 

(C)  $\bigcirc$  G =  $(x_1 . x_2 . x_3 .... x_n)^{1/n}$ ,  $x_i \in N$  (Correct Answer)

(D)  $\bigcirc$  G =  $(x_1 + x_2 + x_3 + \dots + x_n)^{1/n}$ 

## Question No.66 (Question Id - 85)

Given below are two statements :

#### Statement I:

Long non-coding RNAs (IncRNAs) are produced by RNA Polymerase III.

#### Statement II:

Long non-coding RNAs (IncRNAs) are usually longer than 200 nucleotides.

In the light of the above statements, choose the correct answer from the options given below :

(A) O Both Statement I and Statement II are true.

- (B) O Both Statement I and Statement II are false.
- (C) O Statement I is correct but Statement II is false.
- (D) O Statement I is incorrect but Statement II is true. (Correct Answer)

## Question No.67 (Question Id - 91)

Which statements are TRUE about an SQL Query ?

P. An SQL query can contain a HAVING clause even if it does not have a GROUP BY clause.

Q. An SQL query can contain a HAVING clause only if it has a GROUP BY clause.

R. All attributes used in the GROUP BY clause must appear in the SELECT clause.

S. Not all attributes used in the GROUP BY clause need to appear in the SELECT clause.

Choose the correct answer from the options given below :

(A) O P and R

(B) O Q and R (Correct Answer)

- (C) O P and S
- (D)  $\bigcirc$  Q and S

Question No.68 (Question Id - 12)

Find the value of the following definite integral :

$$\int_{1}^{2} (3x^{2} + 6)(x^{3} + 6x) dx$$
(A)  $\bigcirc$  200
(B)  $\bigcirc$  151
(C)  $\bigcirc$  175.5 (Correct Answer)
(D)  $\bigcirc$  6.5

# Question No.69 (Question Id - 46)



## Question No.70 (Question Id - 95)

Given below are two statements : one is labelled as **Assertion A** and the other is labelled as **Reason R**.

#### Assertion A:

CaMV35S promoter is frequently used for plant transformation.

## Reason R:

:

CaMV35S is tissue-specific promoter.

In light of the above statements, choose the most appropriate answer from the options given below

(A)  $\bigcirc$  Both **A** and **R** are correct and **R** is the correct explanation of **A**.

- (B)  $\bigcirc$  Both A and R are correct but R is **NOT** the correct explanation of A.
- (C) O A is correct but R is not correct. (Correct Answer)
- (D)  $\bigcirc$  **A** is not correct but **R** is correct.

# Question No.71 (Question Id - 40)

If a random variable X has the mean 5 and standard deviation 3, then the variance of the variable Y = (3X - 11) is :

(A) ○ 9
(B) ○ 25
(C) ○ 81 (Correct Answer)
(D) ○ 144

Question No.72 (Question Id - 51) What would be the value of  ${}^{n}C_{r}$  ?

# (A) O n!/r!(n - r)! (Correct Answer)

(B) O n!/r!(n + r)!

- (C) O r!/n!(n r)!
- (D) O r!/n!(n + r)!

<b>Question No.73 (Question ld - 78)</b> An intermediate structure in homologous recombination in which the two duplexes of DNA are connected by the genetic material exchanged between two of the four strands is called :
<ul> <li>(A) CRecombination hotspot</li> <li>(B) Holiday junction (Correct Answer)</li> <li>(C) Crossing junction</li> <li>(D) Duplex point</li> </ul>
<b>Question No.74 (Question Id - 22)</b> If <i>x</i> is negative, which of the following statement must be true ?
(A) $\bigcirc x^2 < x^4$ (B) $\bigcirc x^3 < x^2$ (Correct Answer) (C) $\bigcirc x + \frac{1}{x} < 0$ (D) $\bigcirc x = \sqrt{x^2}$
Question No.75 (Question Id - 55)         What will following program in Python print ? $x=1.234567890987654321000001$ $y=round(x, 3)$ print(x)         print(y)         (A) $\bigcirc$ <b>1.2345678909876543 &amp; 1.234 (Correct Answer)</b> (B) $\bigcirc$ 1.234 & 1.234         (C) $\bigcirc$ 1.23456789 & 1.234         (D) $\bigcirc$ 1.2345 & 1.23
<b>Question No.76 (Question Id - 16)</b> The sides of a given triangle are 10, 18 and 12 units, respectively. Find the length of the perpendicular drawn from the opposite angle on the largest side.
<ul> <li>(A) ○ 6.2844 (Correct Answer)</li> <li>(B) ○ 12.568</li> <li>(C) ○ 3.1422</li> <li>(D) ○ 0.6284</li> </ul>
Question No.77 (Question Id - 57) Which of the following is <b>not</b> the decision making statement in C ?
<ul> <li>(A) ○ if-else statement</li> <li>(B) ○ do-while statement (Correct Answer)</li> <li>(C) ○ switch statement</li> <li>(D) ○ else-if construct</li> </ul>
Question No.78 (Question Id - 15) If ₹ 336 is divided between A and B in such a way that A gets 5/16 <sup>th</sup> of the amount B gets, How much would A and B get ?
<ul> <li>(A) ○ A gets ₹ 80 and B gets ₹ 256 (Correct Answer)</li> <li>(B) ○ A gets ₹ 256 and B gets ₹ 80</li> <li>(C) ○ A gets ₹ 96 and B gets ₹ 240</li> <li>(D) ○ A gets ₹ 240 and B gets ₹ 96</li> </ul>

Н

I



(D) 🔿 8
Question No.85 (Question Id - 77)
Which set of tools can be used for comparing two genomes ?
(A) O BLAST, GENSCAN, BLAT
(B) $\bigcirc$ BLAST InterPro and GENSCAN
(D) O BLAST, Mummer and BLAT (Correct Answer)
Question No.86 (Question Id - 63)
>>>print 'JNU Examination'.title()
(A) 🔿 JNU EXAMINATION
(B) 🔿 JNU Examination
(C) O Jnu Examination (Correct Answer)
(D) 🔿 Jnu examination
Question No. 87 (Question Id - 79)
Which of the following proteins acts as a checkpoint control for entry into S-phase of DNA replication
?
(A) O Cyclin/CDK
(B) O p53 (Correct Answer)
$(C) \bigcirc cdc25$
(D) () p21
Question No.88 (Question Id - 56)
For the following program written in Python :
>>>values=1,2,3
>>>x, y, z = values What will be the output of >>>x ?
(A) O 1 (Correct Answer)
(B) ○ 3
(C) ⊖ values
(D) $\bigcirc x$
Question No 89 (Question Id 98)
Which of the following techniques is 'NOT' used for gene expression analysis ?
(A) 🔿 DNA Microarrays
(B) O Southern Hybridization (Correct Answer)
(C) O Northern hybridization
(D) O Quantitative real-time PCR
Question No.90 (Question Id - 9)
Two metal plates are placed side by side and parallel to each other and charges are given to the plates as shown in
the figure below :
10

The charge distribution on the sides of the plate from left to right will be :

(A) Ο +5 μC, +5 μC, -2 μC, -2 μC
(B) 〇 +5 μC, -5 μC, +2 μC, -2 μC
(C) 〇 +3 μC, -3 μC, -7 μC, +3 μC
(D)
Question No.91 (Question Id - 90)
Amino acids like Len, lie, val, Phe etc., tend to cluster near core of globular proteins as :
(A) $\bigcirc$ these amino acids prefer $\beta$ -sheet structure.
(B)
(C) $\bigcirc$ these prefer definite three dimensional structure.
(D) O these avoid contact with water. (Correct Answer)
Question No.92 (Question Id - 24)
Find the average of first 20 multiples of 7.
$(A) \bigcirc 71.5$
(B) ○ 75.3
$(C) \bigcirc 74.5$
(D) ( 73.5 (Correct Answer)
Question No.93 (Question Id - 82)
"Melting" of a protein primarily affects the :
(A) $\bigcirc$ Primary Structure (B) $\bigcirc$ Secondary Structure (Correct Answer)
(C) $\bigcirc$ Sequence of the protein
(D) $\bigcirc$ None of the above
<b>Question No.94 (Question Id - 6)</b> If an object is placed at a distance of 8 cm from a convex mirror of focal length 12 cm. Find the position and nature of the image.
(A) ○ 4.8 cm, real and inverted
(B) $\bigcirc$ 4.8 cm, virtual and inverted
(C) $\bigcirc$ 4.8 cm, virtual and erect (Correct Answer)
Question No.95 (Question Id - 60)
which of the following category is of non-executable statement in C ?
(A) O Assignment
(B) O Comment (Correct Answer)
(C) O Control
(D) O Input/Output
Question No.96 (Question Id - 13)
How many three digit numbers can be made with the numbers 1 to 9, if repetition is not allowed ?
$(A) \bigcirc 729$
(B) $\bigcirc$ 504 (Correct Answer)
$(D) \bigcirc 720$
Question No.97 (Question Id - 72)
string. Template class is offered in which version of Python ?
$(A) \bigcirc 21$

<ul> <li>(B) ○ 2.2</li> <li>(C) ○ 2.3</li> <li>(D) ○ 2.4 (Correct Answer)</li> </ul>
<b>Question No.98 (Question ld - 49)</b> The minimum number of tosses of a coin that are needed so that the probability of getting at least one head being 0.875 is :
<ul> <li>(A) ○ 4</li> <li>(B) ○ 3 (Correct Answer)</li> <li>(C) ○ 8</li> <li>(D) ○ 6</li> </ul>
Question No.99 (Question Id - 76) Given below are two statements :
Statement I:
First worm sequenced was Caenorhabditis elegans.
Statement II:
Genome size of <i>C. elegans</i> is 97 Mb.
In the light of the above statements, choose the <b>correct</b> answer from the options given below :
<ul> <li>(A) O Both Statement I and Statement II are true. (Correct Answer)</li> <li>(B) O Both Statement I and Statement II are false.</li> <li>(C) O Statement I is correct but Statement II is false.</li> <li>(D) O Statement I is incorrect but Statement II is true.</li> </ul>
Question No.100 (Question Id - 83) Which of the following are the methods to find the evolutionary tree that best accounts for the observed variation in a group of sequences ?
<ul> <li>(A) O Maximum Parsimony, Distance and Maximum Likelihood (Correct Answer)</li> <li>(B) O Maximum Likelihood, Maximum Parsimony and Hierarchical Clustering</li> <li>(C) O Principal Component Analysis, Distance and Maximum Parsimony</li> <li>(D) O Principal Component Analysis, Maximum Likelihood and Maximum Parsimony</li> </ul>

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