Da	Je fsirstranker sr choice ve gasses : neon (mono atomic) and oxygen (diatomic). The ratio of their Intial pressures is 3 : 2. Then the ratio of th www.firstRanker.com Atomic mas www.firstRanker.co m
mo	olecular mass of O_2 = 32.0 u)
(△	∆) ○ 3/2 (Correct Answer)
•	3) ○ 101/160
	C) (303/320 D) (1
	<u> </u>
	Question No.2 (Question Id - 86) ven below are two statements :
St	atement I :
GI	ucagon is a peptide hormone and plays an important role in maintaining the normal blood glucose level.
St	atement II :
GI	ucagon stimulates glycogenolysis resulting in hyperglycemia.
In	the light of the above statements, choose the most appropriate answer from the options given below :
	A) O Both Statement I and Statement II are true. (Correct Answer)
•	B) O Both Statement I and Statement II are false. C) O Statement I is correct, but Statement II is false.
•	b) Statement I is correct, but Statement II is raise.
_	Question No.3 (Question Id - 39)
	ven below are two statements :
St	atement I :
Ha	aloarenes are less reactive towards nucleophilic substitution reactions compared to haloalkanes.
St	atement II :
Ca	arbon atom holding halogen atom is ${ m sp}^2$ hybridized in haloarenes and ${ m sp}^3$ hybridized in haloalkanes.
In	the light of the above statements, choose the most appropriate answer from the options given below :
(Α	A) O Both Statement I and Statement II are correct. (Correct Answer)
•	B) O Both Statement I and Statement II are incorrect.
•	C) Statement I is correct, but Statement II is incorrect. D) Statement I is incorrect, but Statement II is correct.
	Question No.4 (Question Id - 24) gar, used in synthetic growth media for microbes, is a product of which one of the following?
(A	ı) ○ Moss
(B	S) O Fungi
	C) O Algae (Correct Answer) D) O Bacteria
(L	n) O bacteria
	Question No.5 (Question Id - 66) s a macro element, sulphur is a component of which of the following proteins?
	Methionine
	Vitamin B1
C.	Lipoic acid
	Coenzyme A
	Carboxylase

Question No.7 (Question Id - 15)

"Atoms are neither created nor destroyed in a chemical reaction" is a statement of the :

- (A) O law of definite proportions
- (B) O law of conservation of mass (Correct Answer)
- (C) O law of percent composition
- (D) atomic theory

Question No.8 (Question Id - 23)

The pairs of spermathecae are located in which segment of earthworm?

- (A) O 6th to 9th segments (Correct Answer)
- (B) \bigcirc 2nd to 5th segments
- (C) O 15th to 18th segments
- (D) \bigcirc 10th to 13th segments

Question No.9 (Question Id - 38)

Which of the sequence of speed of molecules (as per Maxwell Boltzmann distribution at same temperature) is **correct**?

- A. U_{rms}
- B. Uav
- C. U_{mp}

Choose the correct answer from the options given below:

- $(A) \bigcirc C > A > B$
- (B) O C > B > A
- (C) A > B > C (Correct Answer)
- $(D) \bigcirc A > C > B$

Question No.10 (Question Id - 14)

Which of the following is **not** a postulate of Bohr's model for hydrogen atom?

- (A) O Electron moves around the nucleus in circular path of fixed radius and energy
- (B) O Angular momentum of an electron is quantized
- (C)

 Energy of an electron in the orbit does not change
- (D) Matter has dual behavior (Correct Answer)

Question No.11 (Question Id - 89)

The below question has been dropped and full marks are awarded.

A block of mass 1 kg slides down on an inclined plane forming an angle 45° with the horizontal. If the coefficient of friction between the block and the inclined plane is 0.4, then the acceleration of the block when it starts to slide is:

(take g = 10 m/s² and $\sqrt{2}$ = 1.414)

- (A) O 0.21 m/s²
- (B) \bigcirc 2.1 m/s²
- (C) 0.49 m/s²
- (D) \bigcirc 4.9 m/s²

- (B) Mode > Mean > Median
- (C) Mean > Median > Mode (Correct Answer)
- (D) O Mean > Mode > Median

Question No.14 (Question Id - 19)

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

Assertion A:

Lysosomes function in degrading damaged cellular components.

Reason R:

Lysosomes help in the exocytosis of damaged components.

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

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

Question No.15 (Question Id - 36)

Arrange the following carbocations in decreasing order of stability:

- A. CH₃ +CH₂
- B. +CH₃
- C. (CH₃)₂ +CH
- D. (CH₃)₃ C⁺

Choose the **correct** answer from the options given below:

- $(A) \bigcirc D > A > C > B$
- (B) \bigcirc B > A > C > D
- $(C) \bigcirc B > C > A > D$
- (D) \bigcirc D > C > A > B (Correct Answer)

Question No.16 (Question Id - 56)

Consider the equation $x^3 - 9x^2 + 23x - 15 = 0$.

What would be the roots of the above equation if they are in arithmetic progression?

- (A) O 1, 2 and 3
- (B) O 2, 4 and 6
- (C) O 1, 3 and 5 (Correct Answer)
- (D) O 3, 5 and 7

Question No.17 (Question Id - 50)

- (C) O A III, B IV, C I, D II
- (D) O A IV, B III, C II, D I (Correct Answer)

Question No.18 (Question Id - 91)

A particle of mass 1.0 kg, at a position $\binom{n}{i}$, $\binom{n}{j}$, $\binom{n}{k}$ is accelerating under the influence of a force of $\binom{n}{2k}$. The torque acting on the particle about the origin is:

- (A) $\bigcirc \qquad \stackrel{\land}{2i-2j}$ (Correct Answer)
- (B) $\bigcirc \quad {}^{\land}_{2i+2j} \stackrel{\land}{j}$
- $(C)\bigcirc \qquad \underset{2\hat{i}+2\hat{j}-2\hat{k}}{}$
- $(D)\bigcirc \quad \underset{2\stackrel{\wedge}{i}-2\stackrel{\wedge}{j}+2\stackrel{\wedge}{k}}{\circ}$

Question No.19 (Question Id - 22)

Which one of the following animals are diploblastic?

- (A) O Tapeworm
- (B) O Locust
- (C) O Star fish
- (D) O Sea Anemone (Correct Answer)

Question No.20 (Question Id - 43)

What will be the final product of feldspar weathering?

- (A) O Illite
- (B) O Kaolinite
- (C) O Gibbsite (Correct Answer)
- (D) O Goethite

Question No.21 (Question Id - 5)

If $\stackrel{\rightarrow}{a}$, $\stackrel{\rightarrow}{b}$ and $\stackrel{\rightarrow}{c}$ represent three vectors, then consider the following statements :

- A. $\overrightarrow{a}.\overrightarrow{b} = \overrightarrow{b}.\overrightarrow{a}$
- B. $\overrightarrow{a} \cdot (\overrightarrow{b} + \overrightarrow{c}) = \overrightarrow{a} \cdot \overrightarrow{b} + \overrightarrow{a} \cdot \overrightarrow{c}$
- C. $\overrightarrow{a} \times \overrightarrow{b} = \overrightarrow{b} \times \overrightarrow{a}$
- D. If \overrightarrow{a} and \overrightarrow{b} are parallel, then $\overrightarrow{a} \times \overrightarrow{b} = 1$

Choose the correct answer from the options given below:

- (A) O A and B Only (Correct Answer)
- (B) O B and C Only
- (C) O C and D Only
- (D) O A and D Only

Question No.22 (Question Id - 27)

The boundary between the troposphere and the stratosphere is known as:

- (A) O Tropopause (Correct Answer)
- (B) O Thermopause
- (C) O Thermocline

/A\ ~	E _
	10 ⁵ Pa
	1.01 x 10 ⁵ Pa
	1.1 x 10 ⁵ Pa
	2 x 10 ⁵ Pa (Correct Answer)
Que	stion No.25 (Question Id - 55)
Given	below are two statements :
Stater	nent I:
lf∑ un	is a positive term series, and $\lim_{n\to\infty}\frac{u_{n+1}}{u_n}=1$, then $\sum u_n$ is convergent if I > 1.
Stater	nent II:
If $\sum \mathtt{u_r}$	is a positive term series, and $\lim_{n\to\infty}\frac{u_{n+1}}{u_n}=1$, then $\sum u_n$ is divergent if $1<1$.
In the	light of the above statements, choose the correct answer from the options given below :
(A) C	Both Statement I and Statement II are true.
	Both Statement I and Statement II are false. (Correct Answer)
. ,	Statement I is correct, but Statement II is false. Statement I is incorrect, but Statement II is true.
Stater The eldin the (A) (B) (C) (C)	ectric field inside a thin spherical charged conducting shell is zero. nent II: ectric potential inside a thin spherical charged conducting shell is constant. light of the above statements, choose the most appropriate answer from the options given below: Both Statement I and Statement II are true. (Correct Answer) Both Statement I and Statement III are false. Statement I is correct, but Statement II is false. Statement I is incorrect, but Statement II is true.
Which	of the following product will be formed from the reaction of benzene with CH ₃ Cl in the presence of the chloride?
	Toluene (Correct Answer)
. ,	Chloro toluene 4-ethyl toluene
	4-chloro toluene
0	ation No 29 (Quantion Id. 46)
	stion No.28 (Question Id - 46) s the type of volcanic rock formed at mid oceanic ridges ?
	Andesite
(B) C	Basalt (Correct Answer)

_	Firstranker's choice Question No.37 (Question Id - 100) www.FirstRanker.com www.FirstRanker.con
Li	ght of wavelength 5000 Å is coming from a star. The limit of resolution of a telescope whose objective has a
di	ameter of 250 cm is :
(A	v) ○ 1.22 x 10 ⁻⁷ rad
(E	3) O 2.44 x 10 ⁻⁷ rad (Correct Answer)
(($\sim 1.22 \times 10^{-6} \text{rad}$
([2) O 2.44 x 10 ⁻⁶ rad
	Question No.38 (Question Id - 12)
	ball is thrown at a speed of 30 m/s in a direction 308 above the horizontal. What is the maximum height that e ball will achieve ?
(/	ı) ○ 1.53 m
-	s) O 11.48 m (Correct Answer)
-	C) ○ 9.71 m
(L)) ○ 8.45 m
	Question No.39 (Question Id - 42)
	ven below are two statements : one is labelled as Assertion A and the other is labelled as Reason R .
	same temperature, nitrogen gas molecules move faster than chlorine gas molecules.
	eason R:
S	peed of gas molecules depends on temperature and mass of gas molecules.
ln	the light of the above statements, choose the correct answer from the options given below :
,,	
•	 Both A and R are true and R is the correct explanation of A. (Correct Answer) Both A and R are true but R is not the correct explanation of A.
-	c) ○ A is true, but R is false.
-	(i) ○ A is false, but R is true.
	Dunction No. 40 (Question Id., 49)
	Question No.40 (Question Id - 48) hich one of the following is not associated with felsic volcanism ?
•	s) O Strato volcano
-	Pyroclastic ejections
-	C) O Highly viscous lava D) O Pahoehoe lava flow (Correct Answer)
(L	rancence lava now (correct Answer)
	Question No.41 (Question Id - 40) ven below are two statements :
	atement I:
	ssaigne's test is applied to detect N, S and halogens in organic compounds.
	atement II:
	arbon and Hydrogen cannot be detected by heating organic compounds with copper (II) oxide.
In	the light of the above statements, choose the most appropriate answer from the options given below :
, .	a) ○ Both Statement I and Statement II are correct.
(F	
•	Both Statement I and Statement II are incorrect.
(E	Both Statement I and Statement II are incorrect. C) Statement I is correct, but Statement II is incorrect. (Correct Answer)

 (A) ○ Photoperiodism (B) ○ Vernalisation (Correct Answer) (C) ○ Germination (D) ○ Florigens
Question No.44 (Question Id - 52) Polymorphs of quartz indicative of a high pressure origin found in meteorite craters and in high pressure origin assemblages are :
A. Coesite
B. Chert
C. Stishovite
D. Tridymite
E. Cristobalite
Choose the correct answer from the options given below :
(A) ○ A and B Only (B) ○ A and C Only (Correct Answer) (C) ○ B and C Only (D) ○ D and E Only
Question No.45 (Question Id - 72) Given below are two statements :
Statement I:
Quantum yield is defined as the number of oxygen molecules released per light quanta absorbed.
Statement II:
Eight quanta of light energy is required for the reduction of one molecule of CO ₂ to carbohydrate.
In the light of the above statements, choose the most appropriate answer from the options given below :
 (A) O Both Statement I and Statement II are true. (Correct Answer) (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.
Question No.46 (Question Id - 70) The proliferation of parenchymatous cells is accompanied by an enlargement of vacuoles of mature cells and a considerable reduction in the size of intercellular spaces is termed as:
(A) ○ Aging(B) ○ Senescence(C) ○ Proliferation

Question No.47 (Question Id - 53)

Question No.48 (Question Id - 10)

(D) O A - IV, B - III, C - II, D - I

A passenger sitting by the window of a train moving with a velocity 60 km/h sees for 10 s, a train moving with a velocity of 30 km/h in the opposite direction. The length of the second train is :

- (A) O 200 m
- (B) O 225 m
- (C) O 250 m (Correct Answer)
- (D) O 300 m

Question No.49 (Question Id - 61)

$$\lim_{x\to 0} \frac{e^x - 2\cos x + e^{-x}}{x\sin x}$$
 is equal to:

- (A) O 0
- (B) O 1 (Correct Answer)
- (C) O 2
- (D) ∞

Question No.50 (Question Id - 7)

Three resistors each of value 1 Ω are connected end to end to form a triangular shaped network ABC. What is the equivalent resistance between the terminals A and B?

- (A) \bigcirc $\frac{1}{3}$ \bigcirc
- (B) \bigcirc $\boxed{\frac{2}{3} \Omega}$ (Correct Answer)
- (C) O 1 Ω
- (D) \bigcirc $\frac{4}{3}$ Ω

Question No.51 (Question Id - 68)

Which among the following is a chemolithoautotroph?

- (A) O Anabaena
- (B) Oryza sativa
- (C) O Saccharomyces cerevisiae
- (D) O Beggiatoa (Correct Answer)

Question No.52 (Question Id - 83)

What kind of laboratory facility will be needed to work with anthrax pathogen?

- (A) O Routine microbiology laboratory
- (B) O Laboratory complying to BSL-1 levels
- (C) O Laboratory complying to BSL-2 levels
- (D) Caboratory complying to BSL-3 levels (Correct Answer)

Question No.53 (Question Id - 62)

Consider the following statements regarding the eccentricity of parabola, ellipse and hyperbola:

- A. Eccentricity of a parabola is less than 1.
- B. Eccentricity of a hyperbola is greater than 1.
- C. Eccentricity of an ellipse is less than 1.
- D. Eccentricity of a parabola is greater than 1.

Choose the correct answer from the options given below:

Question No.55 (Question Id - 29)

Over which part of the Earth, ozone hole was first discovered?

- (A) O Equator
- (B) O Tropic
- (C) O Arctic
- (D) O Antarctic (Correct Answer)

Question No.56 (Question Id - 3)

If
$$|A| = \begin{bmatrix} 1 & 1 & 1 \\ \alpha & \beta & \gamma \end{bmatrix}$$
, then which of the following will correctly represent the value of $|A|$?

- (A) O
- (B) O 1
- (C) (C) αβΥ
- (D) \bigcirc ($\alpha \beta$) ($\beta \Upsilon$) ($\Upsilon \alpha$) (Correct Answer)

Question No.57 (Question Id - 59)

A^T is the transpose of matrix A and B^T is the transpose of matrix B. Now consider the following statements:

- A. Matrix B is symmetric if it is a square matrix and $B^T = -B$
- B. Matrix A is skew-symmetric if it is a square matrix and $A^T = A$
- C. $(A^T)^T = A$
- D. $(AB)^T = B^T A^T$

Choose the **correct** answer from the options given below:

- (A) O A and B Only
- (B) O B and C Only
- (C) C and D Only (Correct Answer)
- (D) O A and C Only

Question No.58 (Question Id - 49)

Which of the following landforms are made by the action of underground water?

- A. Kettle
- B. Uvala
- C. Ventifacts
- D. Karst valley
- E. Wadis

Choose the **correct** answer from the options given below:

- (A) O A and B Only
- (B) O B and D Only (Correct Answer)
- (C) O B and C Only
- (D) O A and E Only

Question No.59 (Question Id - 99)

The ratio of the number of turns in the primary to secondary coil of a step down transformer is 10:1. A load of 50 W connected to the secondary coil draws a current of 1 A. Then the voltage applied to the primary coil is:

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Given below are two statements:

Statement I:

Optical isomerism is the most subtle of five forms of isomerism as the physical and chemical properties of optical isomers are identical.

Statement II:

Optical isomers cannot be distinguished using a Polarimeter.

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

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

Question No.62 (Question Id - 65)

Which among the following experimental setups is used to keep a continuous culture of microorganisms in a steady-state over long period of time?

- (A) O Batch Culture
- (B) O Chemostat (Correct Answer)
- (C) O Hybridization Oven
- (D) Orbital Shaker

Question No.63 (Question Id - 64)

Consider the following statements:

- A. Standard deviation is independent of change of origin.
- B. Standard deviation is independent of change of scale.
- C. Correlation coefficient is independent of change of origin.
- D. Correlation coefficient is affected by change of scale.

Choose the **correct** answer from the options given below:

- (A) O A and B Only
- (B) O A and C Only (Correct Answer)
- (C) O A and D Only
- (D) O B and D Only

Question No.64 (Question Id - 16)

Salt is spread on icy roads because it:

- (A) O lowers the freezing point of water (Correct Answer)
- (B) O raises the freezing point of water
- (C) O does not affect the freezing point of water
- (D) O increases friction and boiling point of water

Question No.65 (Question Id - 82)

A facultative anaerobic microorganism is introduced to an environment containing oxygen. What will happen to the microorganism?

- A. It will die.
- B. It will survive.
- C. It will reproduce and grow.
- D. It will become dormant till favorable conditions returns tRanker.com

- B. The electric field inside the surface is necessarily uniform.
- C. The number of flux lines entering the surface must be equal to the flux lines leaving it.
- D. All charges must necessarily be outside the surface.
- E. The net charge inside the surface must be zero.

Choose the correct answer from the options given below:

- (A) O A and C Only
- (B) O C and D Only
- (C) O B and E Only
- (D) C and E Only (Correct Answer)

Question No.67 (Question Id - 96)

A block of mass 1.0 kg is fastened to a spring of spring constant 50 N/m. The block is pulled to a distance of 10 cm from its equilibrium position on horizontal frictionless surface and allowed to oscillate. The total energy of the block when it is 5 cm away from its mean position is:

- (A) O.0625 J
- (B) O.1250 J
- (C) O.1875 J
- (D) O.2500 J (Correct Answer)

Question No.68 (Question Id - 37)

Arrange the following metals in increasing order of their oxidizing power:

- A. Na
- B. Pb
- C. Zn
- D. Fe
- E. Cu

Choose the **correct** answer from the options given below :

- $(A) \bigcirc A < B < C < D < E$
- (B) \bigcirc A < B < D < E < C
- (C) \bigcirc A < C < D < B < E (Correct Answer)
- (D) \bigcirc E < B < D < C < A

Question No.69 (Question Id - 54)

Given below are two statements:

Statement I:

When the head of large plume nears the crust, it causes eruptions of vast field of flood basalts.

Statement II:

Indian subcontinent does not have any flood basalt eruptions in the geological past.

In the light of the above statements, choose the **most appropriate** 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) Statement I is correct, but Statement II is false. (Correct Answer)
- (D) O Statement I is incorrect, but Statement II is true.

-1									
Choose	the	correct	answer	trom	the	ontions	aiven	heli	OW.

- (A) O A I, B II, C III, D IV
- (B) O A II, B III, C IV, D I
- (C) O A IV, B III, C II, D I
- (D) O A III, B IV, C I, D II (Correct Answer)

Question No.71 (Question Id - 85)

Which of the following statements regarding mammalian cell culture are true?

- A. Transformed cell lines do need external supply of serum to grow.
- B. The cells that are obtained directly from organisms constitute a primary culture.
- C. Trypsin is added to cell culture medium to maintain cell culture.
- D. HEPES buffer is generally used to maintain pH of culture medium.
- E. It is always essential to add high level glucose to the medium externally.

Choose the **correct** answer from the options given below :

- (A) O A, C and E Only
- (B) OB, C, and E Only
- (C) O A, B and D Only (Correct Answer)
- (D) O C, D and E Only

Question No.72 (Question Id - 67)

Who proposed the term totipotency?

- (A) O Miller
- (B) O Seward
- (C) O Steward
- (D) O Haberlandt (Correct Answer)

Question No.73 (Question Id - 13)

An ideal gas does not follow:

- A. Charles law
- B. Avogadro law
- C. Gay Lussac's law
- D. Boyle's law

Choose the **correct** answer from the options given below:

- (A) O A and D Only
- (B) O B Only
- (C) C Only (Correct Answer)
- (D) O B and C Only

Question No.74 (Question Id - 76)

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Question No.75 (Question Id - 57)

(D) O A - II, B - I, C - IV, D - III

Which of the following expressions correctly represents the Taylor Series expansion of the function sinh x?

(A)
$$\bigcirc$$
 1 + x + x² + x³ + |x| ∞ < :

(B)
$$\bigcirc$$
 $x - \frac{x^3}{3!} + \frac{x^5}{5!} - \frac{x^7}{7!} + \cdots \dots, |x| < \infty$

(C)
$$\bigcirc$$
 $x + \frac{x^3}{3!} + \frac{x^5}{5!} + \frac{x^7}{7!} + \cdots , |x| < \infty$ (Correct Answer)

(D)
$$\bigcirc 1 + \frac{x^2}{2!} + \frac{x^4}{4!} + \frac{x^6}{6!} + \cdots , |x| < \infty$$

Question No.76 (Question Id - 58)

If
$$I = \int_0^{\pi/2} \frac{\sqrt{\cot x}}{\sqrt{\cot x} + \sqrt{\tan x}} dx$$
,

Then the value of I is equal to which of the following?

- (A) O
- (B) O 1
- (C) π/2
- $(D) \bigcirc \boxed{\frac{\pi}{4}}$ (Correct Answer)

Question No.77 (Question Id - 95)

A body oscillates with SHM according to the equation: (in SI units)

$$X = 5 \sin(100\pi t + \pi/4)$$

The velocity of the body at t = 1 s is (take $\sqrt{2}$ = 1.4)

- (A) \bigcirc 250 π m/s
- (B) \bigcirc 350 π m/s (Correct Answer)
- (C) \bigcirc 500 π m/s
- (D) \bigcirc 700 π m/s

Question No.78 (Question Id - 88)

Tubefeet is present as locomotive organs in :

- (A) Orop fish
- (B) O Silver fish
- (C) O Star fish (Correct Answer)
- (D) O Jelly fish

Question No.79 (Question Id - 33)

Half-life period of first order reaction having rate constant (K) value equal to $6.93 \times 10^{-14} \, \text{s}^{-1}$ will be :

- (A) \bigcirc 1 x 10¹⁵ s
- (B) 1 x 10¹³ s (Correct Answer)
- (C) \bigcirc 3.45 x 10⁻⁷ s
- (D) O 3.45 x 10⁻¹⁴ s

	rowstor columns of a determinant are interchanged, then the determinant remains unchanged. www.FirstRanker.com www.FirstRanker.com ment II:
	he elements of a row or column are multiplied by a factor, then the value of the determinant is multiplied at factor.
In the	light of the above statements, choose the correct answer from the options given below :
(A) (Both Statement I and Statement II are true.
(B) (Both Statement I and Statement II are false.
. ,	Statement I is correct but Statement II is false.
(D) (Statement I is incorrect but Statement II is true. (Correct Answer)
lf a n	estion No.82 (Question Id - 9) arrow cone of light rays is incident obliquely on a small portion of a large concave mirror, the reflected
rays o	do not form a sharp focus even if the aperture is small. This effect is known as :
(A) (Angular magnification
(B) (Distortion
(C) (Astigmatism (Correct Answer)
(D) (Transverse magnification
	estion No.83 (Question Id - 25) hed Uranium contains more :
(A) () Tritium
(B) () Deuterium
(C) (Uranium 235 (Correct Answer)
(D) (Uranium 238
	estion No.84 (Question Id - 60) below are two statements :
State	ment I:
Every	homogenous equation of second degree represents a cone whose vertex is (1, 1, 1).
State	ment II :
The lo	ocus of the normal through the vertex of a given cone to the tangent planes is called the reciprocal cone.
In the	light of the above statements, choose the most appropriate answer from the options given below:
(A) (Both Statement I and Statement II are true.
	Both Statement I and Statement II are false.
(C) (Statement I is correct, but Statement II is false.
(D) (Statement I is incorrect, but Statement II is true. (Correct Answer)
	estion No.85 (Question Id - 84)
Whic	n of the following organ in the human body does not harbor any microbial life?
(A) () Gut
(B) () Skin
. ,) Urethra
(D) (Uterus (Correct Answer)
Que	estion No.86 (Question Id - 17) below are two statements : one is labelled as Assertion A and the other is labelled as Reason R.

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- (A) O 2-chloro-1-methyl-4-nitrobenzene (Correct Answer)
- (B) O 2-chloro-1-methyl-nitrobenzene
- (C) 4-methyl-5-chloro-nitrobenzene
- (D) O 2-chloro-4-nitro-toluene

Question No.93 (Question Id - 75)

Biome represents:

- (A) O Large geographical area as a result of succession.
- (B) O Large geographical area delimited by climate. (Correct Answer)
- (C) O Large geographical area having high endemicity.
- (D) C Large geographical area with similar edaphic factors.

Question No.94 (Question Id - 4)

 $\int_0^1 \frac{1}{e^x + e^{-x}} dx$ is equal to which of the following expressions? Given that 'c' is the arbitrary constant.

- (A) \bigcirc $\tan^{-1} e \frac{\pi}{4}$ (Correct Answer)
- (B) \bigcirc $1 \frac{\pi}{4}$
- (C) \bigcirc 1 $-\frac{\pi}{4}$
- $(D)\bigcirc \frac{\pi}{4}-1$

Question No.95 (Question Id - 87)

Which one among the following is true?

- A. Hippocampus is the connecting link between the Pisces and the Amphibia.
- B. Hydra is the connecting link between the Protozoa and Metazoa.
- C. Platypus is the connecting link between the Reptiles and Mammals.
- D. Archeopteryx is the connecting link between the Aves and Mammals.
- E. Octopus is the connecting link between the Mollusca and Osteichthyes

Choose the correct answer from the options given below:

- (A) O C Only (Correct Answer)
- (B) A and B Only
- (C) O D Only
- (D) O and E Only

Question No.96 (Question Id - 80)

The milk production during the initial few days after child birth of human, containing several essential antibodies, is called:

- (A) O Lactation
- (B) O Parturition
- (C) O Colostrum (Correct Answer)
- (D) O Prolactation

Question No.97 (Question Id - 20)

The source of litmus is:

(A) O Indigofera tinctoria



(A) O B, D and E Only

(C) \bigcirc A, C, D and E Only (D) \bigcirc A, B, D and E Only

(B) O A, B, C and D Only (Correct Answer)

Paramecium ker's choice Choose the correct answer from the options	www.FirstRanker.com	www.FirstRanker.com					
 (A) ○ A and B Only (B) ○ B and C Only (Correct Answer) (C) ○ C and D Only (D) ○ D and E Only 							
Question No.99 (Question Id - 69) Metabolite that is transported from chloroplas	st to peroxisome during ${\sf C}_2$ oxidative ${\sf p}$	photosynthetic cycle is :					
 (A) ○ Glycerate (B) ○ Glycolate (Correct Answer) (C) ○ Serine (D) ○ Glycine 							
Question No.100 (Question Id - 28) Which among the following describes the po	tability of water ?						
A. Temperature							
B. Color							
C. pH							
D. Turbidity							
E. Sulphur content							
Choose the correct answer from the ontions	s aiven below :						

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