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SRMJEEE 2018 Question Paper with Answer Key

SRM Joint Engineering Entrance Examination - SRMJEEE

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Q	1 : A star is very far from earth. If light takes 10 years from it to reach the earth, calculate the distance between star and earth.
A	$9.46 \times 10^{16} \text{m}$
В	$9.46 \times 10^{-16} \text{m}$
С	$9.46 \times 10^{17} \text{m}$
D	$9.46 \times 10^{-17} \text{m}$
Co	prrect Ans : A
Q	2: The length of a body is measured as 3.51 m. If the accuracy is 0.01 m, then the percentage error in the measurement is
A	351%
В	1%
С	0.28%
D	0.03%
Co	prrect Ans : C
Q	3 : If a car accelerates from 20 m/s to 40 m/s in 10 s and its forward thrust is equal to 3 kN, what is the mass of car?
A	1500 tones.
В	150 tones.
C	15 tones.
D	1.5 tones.
Co	prrect Ans : D
Q	4: Which one of following is a characteristic of force? It
A	can make a stationary object to start move.
В	cannot make a moving object to increase speed.
C	can make a moving object to decrease speed.
D	can change direction of an object.
Co	prrect Ans : B
_	
_	5 : Angular momentum is
	A scalar
В	A polar vector
С	A scalar as well as vector
D	An axial vector
Co	prrect Ans : D
Q	6 : A spring of force constant K is cut into two pieces such that one piece is double the length of the other. Then the long piece will have a force constant of

- **A** 2/3k
- **B** 3/2k
- **C** 3k
- **D** 6k

Correct Ans : B

Q7: The change in the gravitational potential energy when a body of mass m is raised to a height nR above the surface of the earth is (here R is the radius of the earth)

- $\mathbf{A} \left[\frac{n}{n+1} \right] mgR$
- $\mathbf{B} \quad \left[\frac{n}{n-1}\right] mgR$
- **C** nmgR
- $D = \frac{mgR}{n}$

Correct Ans : A

Q8: The time period of a simple pendulum on a freely moving artificial satellite is

- A Zero
- **B** 2 sec
- **C** 3 sec
- **D** Infinite

Correct Ans : D

Q9: ______ possess maximum value for rigidity modulus.

- **A** iron
- **B** copper
- **C** steel
- **D** tungsten

Correct Ans : D

Q10 The restoring force of a system of mass executing SHM is 4N. If its displacement is 4 cm then the force constant is

- **A** 1000 N/m
- **B** 10 N/m
- C 100 N/m
- **D** 20 N/m

Correct Ans : C

Q:	11 The distance between the nearest node and antinode in a stationary wave is
A	ℓ
В	λ _{/2}
	1/4
	and
	2 4
Co	rrect Ans : C
Q:	12 A tube closed at one end containing air is excited. It produces the fundamental note of frequency 512 Hz. If the same tube is open at both the ends, the fundamental frequency that can be produced is
A	1024 Hz
В	512 Hz
	256 Hz
	128 Hz
Co	rrect Ans : A
Q:	13 The specific heat of a gas in an isothermal process is
A	zero
В	infinite
С	constant
D	negative
Со	rrect Ans : B
Q:	14 Which of the following is adiabatic gas equation?
	PV = Const
	PV = Const
	PV -1 = Const
D	P 1/V
Co	rrect Ans : B
Q:	${f 15}$ The volume of ${f 1m}^3$ of gas is doubled at atmospheric pressure. The work done at constant pressure will be
A	zero
	10 ⁵ cal
C	10 ⁵ J
D	10 ⁵ erg
Со	rrect Ans : C

Q :	16 If the coefficient of cubical expansion is 'x' times of the coefficient of superficial expansion, then value of 'x' is
A	1/2
В	1
С	1.5
D	4
Сс	prrect Ans : C
Q :	17 A man is looking his magnified image in a mirror placed in front of him. The kind of mirror he is using is
A	Plane
В	Convex
С	Concave
D	Reflection
Co	prrect Ans : C
Q	18 A nicol prism is based on the principle of
	Refraction
	Diffraction
	Reflection
	Double refraction
	prrect Ans : B
CC	MICCE AID . D
Q :	19 In Newton's rings experiment the diameter of certain order of dark ring is measured to be double that of second ring. What is the order of the ring.
Α	2
В	4
С	6
D	8
Co	prrect Ans : D
Q :	20 Parallel rays of light entering a convex lens always converge at
A	Centre of curvature
	The principle focus
С	Optical centre
	Focal plane
Co	prrect Ans : B

Q21 The B-H curves for two ferromagnetic materials are shown in figure.

(1) (2)

These Hysteresis loops are for

- A (1) soft iron and (2) steel
- **B** (1) steel and (2) soft iron
- C (1) diamagnetic and (2) paramagnetic
- **D** (1) paramagnetic and (2) ferromagnetic

Correct Ans : A

 $\ensuremath{\mathbf{Q22}}$ In an series LCR circuit the phase difference between voltage across R and C is :

A 0

- A
- $\mathbf{B} = \frac{\pi}{2}$
- **C** π
- D $\frac{3\pi}{2}$

Correct Ans : B

Q23 Eight dipoles with charges of magnitudes e are placed in side a cube. The total electric fluxcoming out of the cube will be

- A = 8e
- $\mathsf{B} \frac{16e}{\epsilon_o}$
- $c = \frac{e}{\epsilon_0}$
- **D** Zero

Correct Ans: D

Q24 The frequency of the charged particle circular at right angles to a uniform magnetic field does

not depend upon the

A speed of the particle

B mass of the particle

C charge of the particle

D magnetic field

Correct Ans: A

Q25 In the JJ Thomson method for the determination of e/m what is the angle between the

: magnetic & electric fields to which the electrons are subjected?

A 0°

B 45°

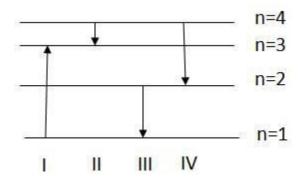
C 90°

D 180°

Correct Ans: C

Q26 The diagram shows the energy levels for an electron in a certain atom. Which transtition shown

: represents the emission of a photon with the most energy ?



A I

B II

C III

D IV

Correct Ans : C

Q27 Rutherford's α -particles scattering experiment showed that

i (i)electrons have negative charge

(ii)the mass and positive charge of the atom is concentrated in the nucleus

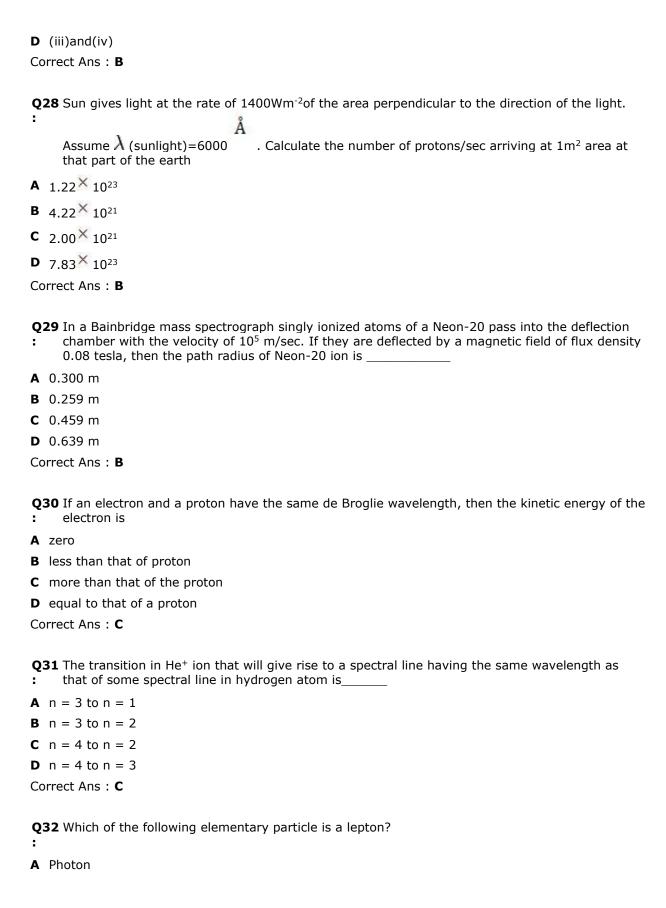
(iii)neutron exists in the nucleus

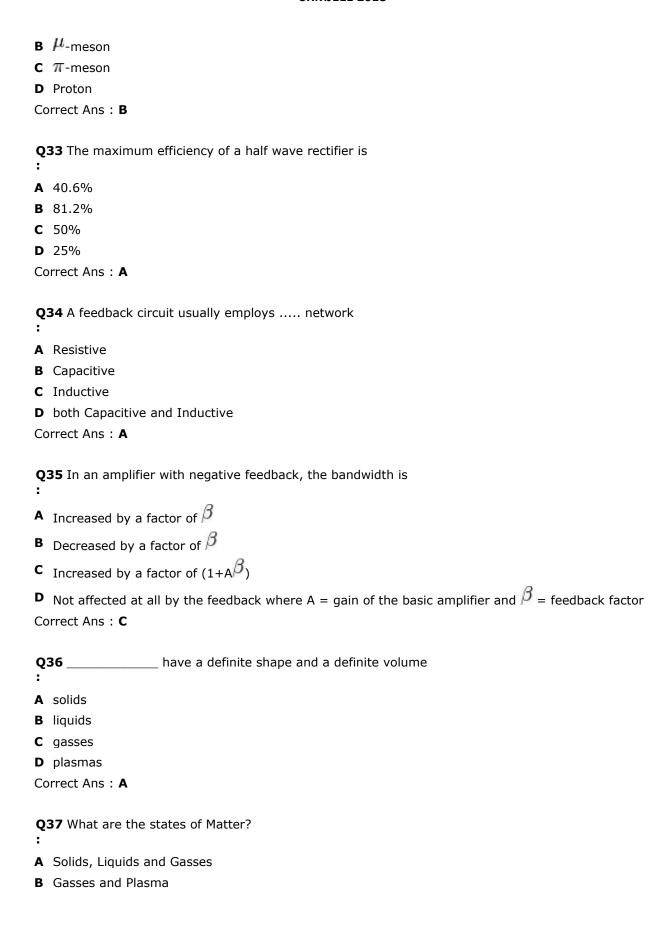
(iv)most of the space in atom is empty which of the above statements are correct?

A (i)and(iii)

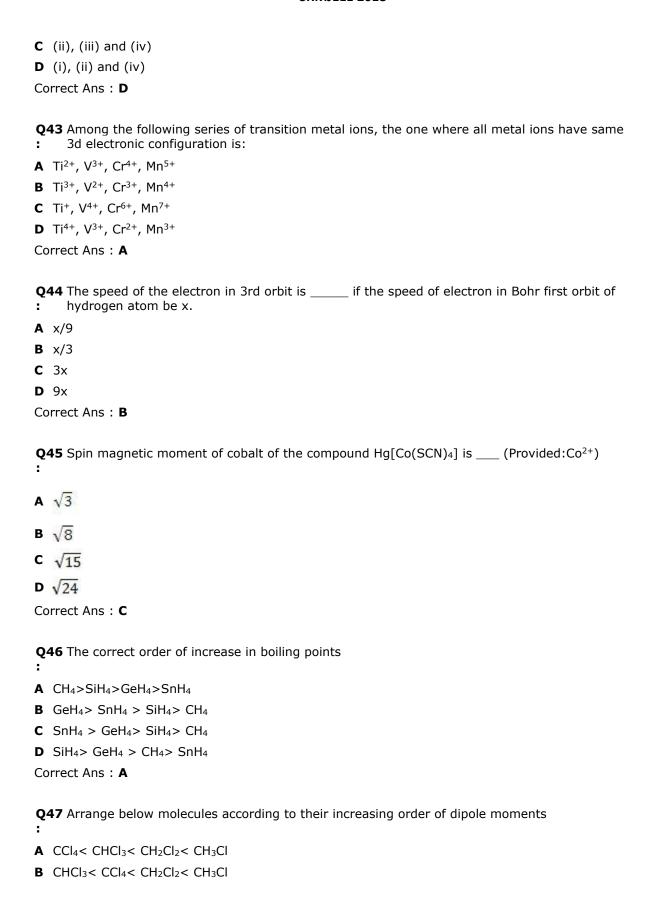
B (ii)and(iv)

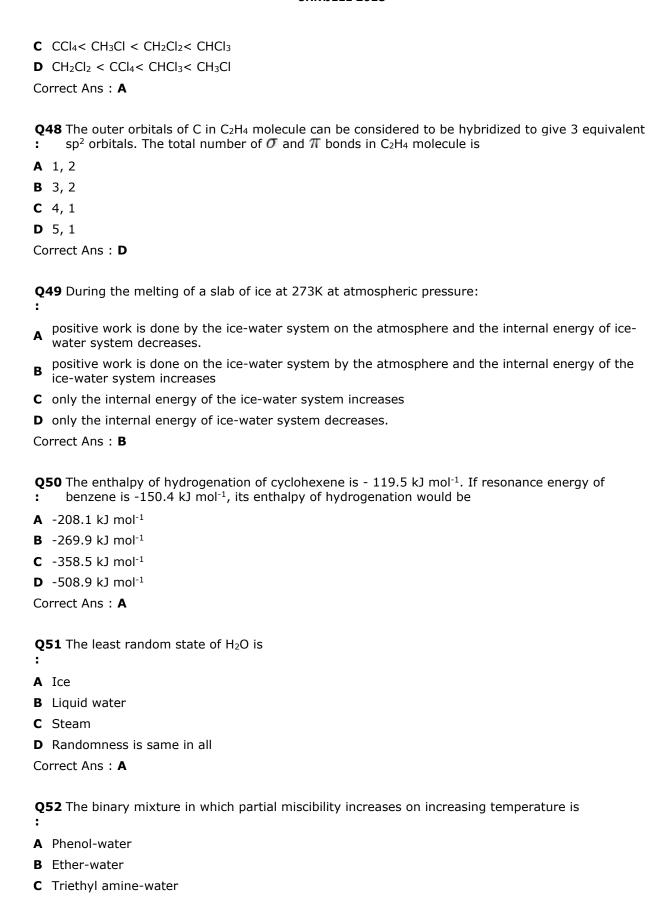
C (i)and(iv)





C	Plasma and Bose Einstein condenstates
D	All Options
Co	prrect Ans : D
Q :	38 By what factors does the average velocity of a gaseous molecules increase when the temperature(in kelvin)is doubled?
A	1.4
В	2.0
C	2.8
D	4.0
Co	prrect Ans : A
Q	39 The atomic radius is equal to
	One half the distance between the two nuclei in a molecule
	Two half the distance between the five nuclei in a molecule
_	Four half the distance between the three nuclei in a molecule
	Three half the distance between the one nuclei in a molecule
C	prrect Ans : A
Q :	40 Which of the following sets of ion represents a collection of isoelectronic species?
Δ	N³-, O²-, F-, S²-
	Ba ²⁺ , Sr ²⁺ , K ²⁺ , Ca ²⁺
	K ⁺ , Cl ⁻ , Ca ²⁺ , Sc ³⁺
	Li ⁺ , Na ⁺ , Mg ²⁺ , Ca ²⁺
	prrect Ans : C
Q :	41 Among the following elements (whose electronic configurations are given below) the one having highest ionization energy is
A	[Ar] 3d ¹⁰ 4S ² 4P ²
В	[Ne] 3S ² 3P ¹
C	[Ne] 3S ² 3P ²
D	[Ne] 3S ² 3P ³
Co	prrect Ans : D
Q :	42 Dalton's atomic theory successfully explained by? (i) Law of conservation of mass (ii) Law of constant composition (iii) Law of radioactivity (iv) Law of multiple proportion
A	(i), (ii) and (iii)
В	(i), (iii) and (iv)





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D Nicotine-water
Correct Ans: A
Q53 Calculate the mole fraction of water in a mixture containing 9.0 g water (M<sub>m</sub>=18 gmol<sup>-1</sup>), 120g
       acetic acid (M_m = 60 \text{ gmol}^{-1}) and 115g ethanol (M_m = 46 \text{ gmol}^{-1}).
A 1.0
B 0.15
C 1.5
D 0.10
Correct Ans: D
Q54 Four species are listed below
      I. HCO<sub>3</sub>-
       II. H<sub>3</sub>O<sup>+</sup>
       III. HSO<sub>4</sub>-
       IV. HSO<sub>3</sub>F
       Which one of the following is the correct sequence of the acid strength?
A IV < II < III < I
\textbf{B} \quad \text{II} < \text{III} < \text{I} < \text{IV}
\mathbf{C} I < III < II < IV
D III < I < IV < II
Correct Ans: C
Q55 Using Lewis concept, determine the decreasing order of basic strengths of ClO<sub>4</sub><sup>-</sup>, ClO<sub>3</sub><sup>-</sup> and ClO<sub>2</sub><sup>-</sup>
A ClO<sub>3</sub><sup>-</sup>>ClO<sub>2</sub><sup>-</sup>>ClO<sub>4</sub><sup>-</sup>
B ClO_4^- > ClO_3^- > ClO_2^-
C ClO<sub>2</sub>->ClO<sub>3</sub>->ClO<sub>4</sub>-
D ClO_4^->ClO_2^->ClO_3^-
Correct Ans : C
Q56 Which is need for electroless plating?
A Reducing agent
B Direct current
C Pulse current
D Battery
Correct Ans: A
Q57 The oxidation of sodium sulphite by air is retarded by
A MnO<sub>2</sub>
B H<sub>2</sub>S
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C Alcohol
D As ₂ O ₃
Correct Ans : C
Q58 Soap suds is a:
:
A foam
B sol
C gel
D aerosol
Correct Ans : A
Q59 A mixture of camphor and benzoic acid can be separated by which of the following technique:
A Chemical methods
B Sublimation
C Fractional distillation
D Extraction with a solvent.
Correct Ans : A
Q60 Sodium extract of an organic compound gives blood red colour with FeCl ₃ . It contains:
A S and Cl
B N and S
C N
D S
Correct Ans: B
Q61 IUPAC name of (CH ₃) ₂ CH-CH=CH-CH ₃ is,
A 4-methyl-2-pentene
B 3-isopropyl-2-propene
C 2-methyl-3-pentene
D 1, 2-isopropyl-1-propene
Correct Ans : A
Q62 Which of the following amino acid is achiral?
A Alanine
B Glycine
C Proline
D Phenylalanine

Correct Ans: B Q63 Which mechanism involves heterolytic fission? $A C_2H_4 + HBr --> C_2H_5Br$ **B** $C_2H_6 + Br_2 --> C_2H_5Br + HBr$ **C** $O_3 + O. \rightarrow 2 O_2$ **D** none Correct Ans: A Q64 Ozonolysis of an organic compound gives formaldehyde as one of the products. This confirms the presence of **A** vinyl group B Two ethylenic double bonds C An acetylenic triple bond **D** An isopropyl group Correct Ans: A Q65 When phenol is treated with CHCl3 and NaOH, the product formed is A Benzaldehyde **B** Salicylaldehyde C Salicylic acid **D** Benzoic acid Correct Ans : B Q66 Hydrolysis of diazonium salt produces **A** benzene **B** phenol C aniline **D** azobenzene Correct Ans : B Q67 Aniline is a resonance hybrid of five structures and where do you find the maximum electron density in those structures? A Ortho-position only **B** Para-position only C Ortho-and para-positions **D** Ortho- and meta - positions

Correct Ans : C

Q68 In the reaction shown below, the major product formed is

Correct Ans : A

Q69 Thermoplastic can be reused because of?

- A Intermediate intermolecular forces
- **B** Heavily cross-linked polymer chains
- C Weakest intermolecular forces
- **D** High stability

Correct Ans : A

Q70 What is the name of six membered cyclic structure of glucose?

A Anomer

B Pyranose

C Furan

D Proline

Correct Ans : B

Q71 A function f from the set of natural numbers to integers defined

 $f(n) = \begin{cases} \frac{(n-1)}{2} & \text{if } n \text{ odd} \\ \frac{-n}{2} & \text{if } n \text{ even} \end{cases}$

A one-one but not onto

B onto but not one-one

C one-one and onto both

D neither one-one nor onto

Correct Ans : C

Q72 A set A contains 10 elements, then the number of relations on A into A is

A 2¹⁰

B 10^2

C 2¹⁰⁰

D 2^{1000}

Correct Ans : C

Q73 $tan7\theta$ - $tan5\theta$ - $tan2\theta$ =

A $tan7\theta$ $tan5\theta$ $tan2\theta$

B $tan7\theta cot5\theta cot2\theta =$

c $\cot \theta \tan \theta \tan 2\theta$

D $\cot 2\theta + \cot 5\theta - \cot 7\theta =$

Correct Ans : **D**

Q74 The number of solutions of $\sin 2x + 4\cos x = 2 + \sin x$, in $[-\pi, 4\pi]$ is

A 6

B 4

C 3

D 5

Correct Ans: B

Q75 $2x^2 \frac{d^2 y}{dx^2} - 3\frac{dy}{dx} + y = 0$

The order of the differential equation

- **A** 2
- **B** 1
- **C** 0
- **D** not defind

Correct Ans : A

Q76 The product of the real roots of the equation $|2x + 3|^2 - 3|2x + 3| + 2 = 0$ is

- **A** 5/4
- **B** 5/2
- **C** 5
- **D** 2

Correct Ans : C

Q77 if $x^3-6x^2+12x+19=0$ and ω is a non-real cube root of 1,then x=

- **A** -1
- **B** 2-3ω
- **C** 2-3 ω^2
- **D** (a)or(b)or(c)

Correct Ans : **D**

 $\begin{pmatrix} 4 & 3 & 2 \end{pmatrix} \begin{pmatrix} 1 \\ -2 \\ x \end{pmatrix} = \begin{pmatrix} 6 \end{pmatrix}$ If

- **A** 4
- **B** 3
- **C** 2
- **D** 1

Correct Ans: A

Q79
:
$$ae^x + be^y = c$$
; $pe^x + qe^y = d$ and $\Delta_1 = \begin{vmatrix} a & b \\ p & q \end{vmatrix}$; $\Delta_2 = \begin{vmatrix} c & b \\ d & q \end{vmatrix}$; $\Delta_3 = \begin{vmatrix} a & c \\ p & d \end{vmatrix}$ the the value of (x, y) is

$$\mathbf{A} \quad \left(\frac{\Delta_2}{\Delta_1}, \frac{\Delta_3}{\Delta_1}\right)$$

$$\mathbf{B} \left(log \frac{\Delta_2}{\Delta_1}, log \frac{\Delta_3}{\Delta_1} \right)$$

$$c \left(log \frac{\Delta_1}{\Delta_3}, log \frac{\Delta_1}{\Delta_2}\right)$$

$$\mathbf{D} \left(log \frac{\Delta_1}{\Delta_2}, log \frac{\Delta_1}{\Delta_3} \right)$$

Correct Ans : B

Q80: If
$$\Delta = \begin{vmatrix} 3 & 4 & 5 & x \\ 4 & 5 & 6 & y \\ 5 & 6 & 7 & z \\ x & y & z & 0 \end{vmatrix} = 0$$
, then

- **A** x,y,z are in A.P
- **B** x,y,z are in G.P
- **C** x,y,z are in H.P
- **D** none of these

Correct Ans : A

- $\mathbf{A} \Delta = -9$
- $\mathbf{B} \Delta = 7$
- $\mathbf{C} \Delta = 49$
- **D** $\triangle = 343$

Correct Ans : C

Q82 The number of 4 digit numbers that can formed by using the digits 1,2,3,4,5,6,7,8 and 9 such that the least digit used is 4,when repetition of digits is allowed

- **A** 617
- **B** 671
- **C** 716
- **D** 761

Correct Ans: B

Q83 In how many ways can 6 boys and 4 girls sit in a row?

- **A** 10!
- **B** 100

C 6!4!

D 5!4!

Correct Ans : A

$$x = \frac{3at}{(a+t^3)}, y = \frac{3at^2}{(1+t^3)}, then \frac{dy}{dx} at t = \frac{1}{2}$$
 is

- $A = \frac{4}{3}$
- $B \frac{17}{12}$
- $c \frac{19}{15}$
- $D = \frac{5}{4}$

Correct Ans : B

Q85 Let $f: R \rightarrow R$, $g: R \rightarrow R$ be two given functions. Such that f is injective and g is surjective, then which of the following is injective?

A gof

B fog

C gog

D fof

Correct Ans : D

Q86 Suppose the function f(x)-f(2x) has the derivative 5 at x=1 and derivative 7 at x=2. The derivative of the function f(x)-f(4x) at x=1 has the value equal to

- **A** 19
- **B** 9
- **C** 17
- **D** 14

Correct Ans: A

Q87 If $S = t^3 - 4t^2 + 100$ then the velocity when the accelaration is Zero is :

A
$$\frac{32}{3}m/sec$$

$$B = \frac{-16}{3} \, m/sec$$

c
$$\frac{16}{3}m/sec$$

D
$$-\frac{32}{3}m/sec$$

Correct Ans : B

Q88 : If
$$\int f(x) dx = f(x)$$
, then
$$\int \{f(x)\}^2 dx$$
 is equal to

A
$$\frac{1}{2} \{f(x)\}^2$$

B
$$\{f(x)\}^3$$

c
$$\frac{\{f(x)\}^3}{3}$$

D
$$\{f(x)\}^2$$

Correct Ans : A

Q89 :
$$I = \int_{\pi/6}^{\pi/3} \frac{dx}{1 + \sqrt{\cot x}}$$
 , Then I =

A
$$\frac{\pi}{12}$$

$$B \frac{\pi}{16}$$

$$c \frac{\pi}{2}$$

$$D = \frac{\pi}{8}$$

Correct Ans : A

Q90 The area of the region b'dd by the line y=x-5 and the x axis between the ordinates x=3 and x=7

- A 10 sq.units
- **B** 4 sq.units
- C 2 sq.units
- **D** 1 sq.units

Correct Ans : B

$$\begin{array}{l}
\mathbf{Q91} : \int \frac{\sin x}{\cos^2 x} dx
\end{array}$$

$$\mathbf{D} \sin^2 x$$

Correct Ans : C

Q92 The equation of the tangent to the circle $x^2 + y^2 = 25$ at (4,3) is .

A
$$4x - 3y = 25$$

B
$$4x + 3y = 25$$

$$4x + 3y = 16$$

$$4x + 3y = 9$$

Correct Ans : B

Q93

the equation of the chord of contact of tangents from (2,1) to the hyperbola

 $\frac{x^2}{16} - \frac{y^2}{9} = 1$

A
$$9x-8y-72=0$$

B
$$9x+8y+72=0$$

C
$$8x-9y-72=0$$

D
$$8x+9y+72=0$$

Correct Ans: A

Q94 The locus of the centre of a circle which touches externally the circle $x^2 + y^2 - 6x - 6y + 14 = 0$ and also touches the y-axis is given by the equation

A
$$x^2 - 6x - 10y + 14 = 0$$

B
$$x^2 - 10x - 6y + 14 = 0$$

C
$$y^2 - 6x - 10y + 14 = 0$$

D
$$y^2 - 10x - 6y + 14 = 0$$

Correct Ans : D

Q95 The distance between the two lines represented by the equation $9x^2 + 24xy + 16y^2 - 12x + 16y - 12 = 0$ is

C 11/5

D none of these

Correct Ans: A

Q96 Let A(2, -3) and B(-2, 1) be vertices of a triangle ABC. If the centroid of this triangle moves on the line 2x + 3y = 1, then the locus of the vertex C is the line

A 2x + 3y = 9

B 2x - 3y = 7

C 3x + 2y = 5

D 3x - 2y = 3

Correct Ans : A

Q97 If the sum of the slopes of the lines given by $x^2 - 2cxy - 7y^2 = 0$ is four times product, then c =

A 1

B -1

C 2

D -2

Correct Ans : C

Q98

Let
$$\vec{a} = 2\vec{i} - \vec{j} + \vec{k}$$
, $\vec{b} = \vec{i} + 2\vec{j} - \vec{k}$ and $\vec{c} = \vec{i} + \vec{j} + 2\vec{k}$ be three vectors. A vector in the

plane of b and c whose projection on a is $\sqrt{\frac{2}{3}}$ $\vec{i} + 3\vec{j} - 3\vec{k}$

A $2\vec{i} + 3\vec{j} - 3\vec{k}$

B $2\vec{i} + 3\vec{j} - \vec{k}$

 $c - 2\vec{i} - \vec{j} + 5\vec{k}$

D $2\vec{i} + \vec{j} + 5\vec{k}$

Correct Ans : C

Q99 A tetrahedron has vertices at 0(0,0,0),

A(1,2,1), B(2,1,3) and C(-1,1,2) then the angle between the faces 0AB and ABC will be

A
$$\cos^{-1}[\frac{19}{35}]$$

B
$$\cos^{-1}[\frac{17}{31}]$$

C 30°

D 90°

Correct Ans: A

Q100 If A, B are two mutually exclusive events, then

20 M

- A P(A) + P(B) = 1
- $\mathsf{B} \ P(A) \leq P(\bar{B})$
- $P(A) P(B) = P(A \cap B)$
- D P(A) > P(B)

Correct Ans : B

Q101 If the median of x/5, x, x/4, x/2 and x/3 (where x>0) is 8, then the value of x would be :

- **A** 24
- **B** 32
- **C** 8
- **D** 16

Correct Ans : A

Q102

.02 If the number of terms in, $\left(x+1+\frac{1}{x}\right)^n$, $n \in \mathbb{N}$ is 301, then n is greater than

- **A** 152
- **B** 151
- **C** 150
- **D** 149

Correct Ans : D

Q103 The sum of the 25th and 76th terms of an AP is 101; the sum of the first 100 terms of the AP is :

- **A** 9999
- **B** 4949
- **C** 5050
- **D** 10100

Correct Ans : C

Q104 In a triangle the angle are in A.P and the lengths of the larger sides are 10 and 9 respectivelythen the length of the third side can be

A
$$5+\sqrt{6}$$

С	$5\pm\sqrt{6}$
D	10 7
Co	rrect Ans : C
Q:	105
A	The middle term in the expansion of 240

B 280

C 262

D 252

Correct Ans : D

Q106 Application of bioinformatics include?

:

- A proving a signaling pathway
- **B** clinical trials
- **C** drug design
- **D** identification of lipid pathway

Correct Ans : C

Q107 Nucleotide sequence submission system and mass submission system are submission tools of :

- **A** GenBank
- **B** DDBJ
- **C** EMBL
- **D** UniProt

Correct Ans : B

 ${\bf Q108}~{\rm Hydrogen}$ bonds between cytosine and guanine are cytosine and guanine

:

- **A** 1
- **B** 2
- **C** 3
- **D** 4

Correct Ans : C

 ${\bf Q109}~{\rm In}$ forensic science one of the following technique is used :

A RNA foot printing

В	RNA cloning
C	In vitro fertilization
D	DNA fingerprinting
Co	prrect Ans : D
Q	is a group of plants representing one or more ecospecies of common
:	evolutionary origin.
	Ecospecies
	Ecotype
	Comparium
	Cenospecies
C	prrect Ans : D
Q	111 Stamens epipetalous, alternate with the petals, usually not equal in length and filaments are
:	basifixed.in
A	Solanaceae
В	Malvaceae
C	Arecaceae
	Rubiaceae
Co	prrect Ans : A
_	
Q :	112is composed of single layer of barrel shaped parenchymatous cells and forms a complete ring around the stele.
Δ	Endodermis
	Rhizodermis
	Epdermis
	Epiblema
	prrect Ans : A
-	THE CONTRACT OF THE CONTRACT O
Q :	113 According to which phylogenetic system, dicots are advanced with sympetalae conditions?
A	Bentham & Hooker's
В	Engler & Prantl
С	Hutchinson
D	Takhtajan
Co	prrect Ans : B
Q	114 The types of roots present in mustard plant is
:	
A	Fibrous roots
В	Adventitious roots
C	Tap roots

D Nodulated roots	
Co	prrect Ans : C
Q :	115 Linkage prevents
A	Homozygous condition
В	Segregation of alleles
С	Hybrid formation
D	Heterozygous condition
Co	prrect Ans : B
Q :	116 Why are genetic disorders such as haemophilia and Duchenne muscular dystrophy more prevalent in males than females?
A	Because they can only be passed on from father to son
В	Because they are dominant genetic disorders
С	Because they occur due to spontaneous mutations in the Y-chromosome
	Because they are X-linked recessive disorders
Cc	prrect Ans : D
Q :	117 A nicked RNA molecule can be ligated by
A	T4 RNA ligase
В	DNA polymerase III
С	T4 DNA ligase
D	DNA polymerase I
Cc	prrect Ans : C
Q :	118 Which of the folowing structures are present in core particle of nucleosome?
A	Octamer of histone proteins
В	200 bp of DNA
С	Non-histone proteins
D	Linker DNA
Co	prrect Ans : A
Q :	119 High levels of ABA are synthesized in
A	tissues undergoing cell division
В	tissues undergoing cell elongation
С	tissues undergoing stress
D	tissues undergoing ripening

Correct Ans : C

Q120 Minerals absorbed by root move to the leaf through
A xylem
B phloem
C sieve tubes
D sieve elements
Correct Ans : A
Q121 Which one increases in the absence of light?
A uptake of minerals
B uptake of water
C elongation of internodes
D ascent of sap.
Correct Ans : C
Q122 Photosystem II occurs in:
A stroma
B cytochrome
C grana
D mitochondrial surface
Correct Ans : C
Q123 The hormone that is produced during chilling treatment:
A IAA
B ethylene
C gibberrelin
D vernalin
Correct Ans : D
Q124 VAM is :
A endomycorrhiza
B ectomycorrhiza
C bioinsecticide
D bioherbicide
Correct Ans : A

Q :	125 Most famous nitrogen fixing bacterium / biofertililzer is
Α	Nitrobacter
В	Nitrosomonas
С	Nitrococcus
D	Rhizobium
Сс	prrect Ans : D
Q :	126 Which of the following is generally used for induced mutagenesis in crop plants?
	X-rays
В	UV (260 nm)
	gamma rays (from cobalt 60)
	alpha particles
Cc	prrect Ans : C
Q :	127 In maize, hybrid vigour is exploited by
A	crossing of two inbred parental lines
В	harvesting seeds from the most productive plants
С	inducing mutations
D	bombarding the seeds with DNA
Сс	prrect Ans : A
Q :	128 Which type of ossicles is not observed in the middle ear of humans?
A	Malleus
В	Incus
C	Cochlea
D	Stapes
Сс	prrect Ans : C
Q	129 Which of the following is not a facial bone?
	Parietal
	Lachrymal
	Zygomatic
	Vomra
	prrect Ans : A
	THE COLORS A
Q :	130 The inhibitory process of respiratory centre in brain that regulates the extent of inspiration is known as

^	Pavlov reflex
	Spinal reflex
	Neuro - endocrine reflex
	Herring - Breuer reflex
Cc	prrect Ans : D
^	131 The common passage for food and air is
:	191 The Common passage for food and all is
Α	Oesphagus
	Pharynx
	Trachea
	Glottis
	prrect Ans : B
Q	132 Wharton's duct is part of glands.
:	
A	sublingual
В	submaxillary
С	parotid
D	brunner's
Сс	errect Ans : B
Q	133 The first observation that bacteria-like organism could found in normal air was by
:	
	Joseph Meister
В	Anoton Leeuwenhoek
С	Louis Pasteur
D	Rober Koch
Co	prrect Ans : C
Q :	134 Which of the following scientist first showed mutually beneficial relationship between bacteria and leguminous plants?
A	and the same of th
	Nocard and Roux
	Winogradsky and Beijerinck
	Welch and Nuttall
	prrect Ans : C
	THE CENTRE !
Q	135 Bacterial flagella is made up of
:	
A	microtubules
В	tubulin

C flagellin
D spinin
Correct Ans : C
Q136 The spleen is largely involved with the response to antigens which are in the
. Tiesues
A Tissues B Blood
C Gut
D Lungs
Correct Ans : B
Correct Aris . B
Q137 Which among the following is nonrenewable source of energy?
A Solar energy
B Biomass energy
C Hydro-power
D Geothermal energy
Correct Ans: B
Q138 The formula for exponential population growth is:
A dt/dN=rN
B dN/dt=rN
C dN/rN=dt
D rN/dN=dt
Correct Ans : B
Q139 Which of the following is NOT a type of endoscopy:
A Colonoscopy
B Laryngoscopy
C Cryoscopy
D Bronchioscopy
Correct Ans: C
Q140 McDougall experiment with rats supported:
A Neo-Darwinism
B Neo-Lamarckism
C Hardy-weinberg equilibrium
D Founders effect

Correct Ans : **B**