PU Ph D Adult and Continuing Education

118	F 100 PU_2015_167 ect the one word or phrase that best completes the sentence.
2 of 119	at nice evening! the an a so F100 PU_2015_167
How C	did you know had you known do you know
You	PU_2015_167 ect the one word or phrase that best completes the sentence. 'd better a doctor! seeing saw to see see
116 Sel 6	PU_2015_167 ect the one word or phrase that best completes the sentence. used coffee for breakfast. drinking to drinking to drink drink

5 of 100

	PU_2015_167 ect the one word or phrase that best completes the sentence.
	it's expensive, I'll buy it.
	Whereas
	Despite
	In spite of
	Although
115	F 100 PU_2015_167 ect the one word or phrase that best completes the sentence.
	the cold, I'll go.
	Instead of
	Whereas
	Although
	Despite
107	F 100 PU_2015_167 ect the one word or phrase that best completes the sentence.
It's a	a long time since we!
	had met
	didn't meet
	met
	have met
100	F 100 PU_2015_167 ect the one word or phrase that best completes the sentence.
I'll g	o as soon as she
	calls
	called
	will call
	call
	F 100 PU_2015_167

Select the one word or phrase that best completes the sentence.			
0	tell tells told has told of 100	me the trut	h now.
	· PU_2015_167 ect the one word or	phrase that best	completes the sentence.
l dis	with/to on/with with/with with/on	her	this.
11 of 100 111 PU_2015_167 Select the one word or phrase that best completes the sentence.			
l ca	n do it	you tell me by tomo	orrow.
12 of 100 125 PU_2015_167 Select grammatically correct answers from the given options.			
She	As well as And But because	she is honest.	
123 Sel	of 100 PU_2015_167 ect grammatically o		om the given options.
11 1	word a bird, i	IIY.	

0	Would have Should h	
120	of 100 PU_2015_167 ect grammatically correct answers from the given options.	
0 0 0	A	
122	of 100 PU_2015_167 ect grammatically correct answers from the given options.	
0 0 0	y have been playing cricket match morning. Among Since Far For	
127	PU_2015_167 ect grammatically correct answers from the given options.	
Ram	Before After Because As soon as	
17 of 100 124 PU_2015_167 Select grammatically correct answers from the given options.		
F-9	aharlal Nehru was fond children. Of With	

By On			
18 of 100 137 PU_2015 Find out the o	_167 common error of	the following.	
We a But a b b c c d	sell b	wooden c	<u>furnitures</u> d
135 PU_2015 Find out the o	_167 common error of	the following. one of the best student	t in his class
a C a C b C c C d	b	c	d
20 of 100 139 PU_2015 Find out the o	_167 common error of	the following.	
Mary a C a C b C c d	is b	<u>superior than José</u> c	in the drawing d
21 of 100 142 PU_2015 Select the wo underlined we	rd or phrase wh	ich is closest to the opposites ((antonyms) in the meaning of

He is a sturdy young man

	Strong
0	Dynamic
0	Ambitious
	Weak
141 Sel e	of 100 PU_2015_167 ect the word or phrase which is closest to the opposites (antonyms) in the meaning of lerlined word.
He v	was my friend, <u>faithful</u> just to me
0	Humble
	Plain
	Disloyal
	Truthful
143 Sele und	of 100 PU_2015_167 ect the word or phrase which is closest to the opposites (antonyms) in the meaning of lerlined word. tia is the highest abandoned village in the world
	Inhabited
	Unrestrained
	Adapted
	Deserted
144 Sel e	of 100 PU_2015_167 ect the word or phrase which is closest to the opposites (antonyms) in the meaning of lerlined word.
	Familiar ball of the fire which travels through the sky seemed for an instant <u>extinguished.</u>
	Lit
	Hidden
	Faded
	Begun
	of 100 PU_2015_167

Select the word or phrase which is closest to the opposites (antonyms) in the meaning of underlined word.

To I	iberate the <u>ultimate</u> power in nature
	Eternal
	Closest
	Initial
	Final
187	PU_2015_167 first international conference on Adult Education organised by UNESCO was held in:- Rio de Jenerio Tehran Kualalampur Hamburg
156 Inte	PU_2015_167 rnational Literacy Day is celebrated on:- 2 nd October 19 th November 8 th September 18 th July
189 The	PU_2015_167 Pu_get group for Non-Formal Education is:- 10-14 age group 7-14 age group 14-21 age group 6-14 age group
165	PU_2015_167 ional Commission for Women Empowerment was launched in:- 1992 2002 1999 2001
30	of 100

	PU_2015_167 mada movement was started in the state of:-
	Himachal Pradesh
	Rajasthan
	Gujarat
	Andhra Pradesh
161	PU_2015_167 arning to be" is an outstanding publication of the:- IAEA UNICEF UNESCO ASBAE
193	PU_2015_167 ere was the UN conference on Environment and Development held in 1992? Jakarta London
	Rio-De-Jenerio Paris
181	PU_2015_167 term Andragogy was coined by:- Ivan Illich Plato Paulo Freire Alexander Kapp
186 The	PU_2015_167 national legal literacy day is celebrated on:- 8 th November 10 th November 9 th November 5 th November
	O HOYOHIDO!

	PU_2015_167 main office of National Open School in India is:-
	Chennai
	Mumbai
	Delhi
	Uttar Pradesh
160	of 100 PU_2015_167 ional Policy on Women Empowerment was launched in the year:- 2000 2002 1999 2001
211 An	of 100 PU_2015_167 academic association assembled at one place to discuss the progress of its work and future plans than assembly is known as a:- Symposium Conference Seminar Workshop
166	of 100 PU_2015_167 dagogy of the Oppressed" was written by:- Bertson Paulo Freire Ivan Illich Rabindranath Tagore
184	of 100 PU_2015_167 ich is the third dimension of Indian University's function? Teaching Research
	Extension
	Training

1984 1974 1967 1954 41 of 100 168 PU_2015_167 The first night school was started in the year:- 1924 1923 1922 1920 42 of 100 154 PU_2015_167	183	of 100 PU_2015_167 erimental world Literacy Programme was launched by UNESCO in:-
C 1967 C 1954 41 of 100 168 PU_2015_167 The first night school was started in the year:- C 1924 C 1923 C 1922 C 1920 42 of 100 154 PU_2015_167 Which one of the following Indian states has the largest population size, as per census 20 C Madhya Pradesh C Rajasthan C Bihar C Uttar Pradesh 43 of 100 185 PU_2015_167 The state which has the lowest literacy rate in India as per census 2011? C Tamil Nadu C Orissa C Bihar C Madhya Pradesh 44 of 100 175 PU_2015_167 The first folk high school was established in Denmark:- C 1944 C 1844		
L 1954 41 of 100 168 PU_2015_167 The first night school was started in the year:- L 1924 L 1923 L 1922 L 1920 42 of 100 154 PU_2015_167 Which one of the following Indian states has the largest population size, as per census 20 Madhya Pradesh Rajasthan Bihar Uttar Pradesh 43 of 100 185 PU_2015_167 The state which has the lowest literacy rate in India as per census 2011? Tamil Nadu Orissa Bihar Madhya Pradesh 44 of 100 175 PU_2015_167 The first folk high school was established in Denmark:- L 1944 L 1844		
41 of 100 168 PU_2015_167 The first night school was started in the year:- 1924 1923 1922 1920 42 of 100 154 PU_2015_167 Which one of the following Indian states has the largest population size, as per census 20 Madhya Pradesh Rajasthan Bihar Uttar Pradesh 43 of 100 185 PU_2015_167 The state which has the lowest literacy rate in India as per census 2011? Tamil Nadu Orissa Bihar Madhya Pradesh 44 of 100 175 PU_2015_167 The first folk high school was established in Denmark:- 1944 1944 1944 1944 1944 1944 1944		
168 PU_2015_167 The first night school was started in the year:- 1924 1923 1922 1920 42 of 100 154 PU_2015_167 Which one of the following Indian states has the largest population size, as per census 20 Madhya Pradesh Rajasthan Bihar Ultrar Pradesh 43 of 100 185 PU_2015_167 The state which has the lowest literacy rate in India as per census 2011? Tamil Nadu Orissa Bihar Madhya Pradesh 44 of 100 175 PU_2015_167 The first folk high school was established in Denmark:- 1944 1844		
154 PU_2015_167 Which one of the following Indian states has the largest population size, as per census 20 Madhya Pradesh Rajasthan Bihar Uttar Pradesh 43 of 100 185 PU_2015_167 The state which has the lowest literacy rate in India as per census 2011? Tamil Nadu Orissa Bihar Madhya Pradesh 44 of 100 175 PU_2015_167 The first folk high school was established in Denmark:- 1944 1844	168 The	PU_2015_167 first night school was started in the year:- 1924 1923 1922
185 PU_2015_167 The state which has the lowest literacy rate in India as per census 2011? Tamil Nadu Orissa Bihar Madhya Pradesh 44 of 100 175 PU_2015_167 The first folk high school was established in Denmark:- 1944 1844	154 Whi	PU_2015_167 ch one of the following Indian states has the largest population size, as per census 2011? Madhya Pradesh Rajasthan Bihar
175 PU_2015_167 The first folk high school was established in Denmark:- 1944 1844	185 The	PU_2015_167 state which has the lowest literacy rate in India as per census 2011? Tamil Nadu Orissa Bihar
2004	175	PU_2015_167 first folk high school was established in Denmark:- 1944 1844 1744

182	of 100 PU_2015_167 vergence a journal of Adult Education is published by which institute?
	IAEA
	ICAE
0	IUACE
	DVV
198	PU_2015_167 ore Literacy Award is being given for an outstanding work is:- In the promotion of literacy work among youths In the promotion of literacy work among farmers In the promotion of literacy work among labourers In the promotion of literacy work among women
155 Inte	PU_2015_167 rnational Population Day is celebrated on:- 11 th July 10 th July 20 th July 18 th July
218	PU_2015_167 main purpose of a pilot study in educational research is:- To improve the research plan To collect preliminary data To train the research team To try the research tool
217	of 100 PU_2015_167 ch among the following is not a quality of a good quantitative statistical method? Flexibility Comparability Measurability
	Appropriateness

216	of 100 PU_2015_167 term expost facto research is concerned with:-
	Qualitative Research
	Empirical Research
	Applied Research
	Descriptive Research
188 Sarv	PU_2015_167 va Shiksha Abhiyan was launched during the year:- 2007 2010 2011
	2001
196	of 100 PU_2015_167 Itural Action for Freedom" is a book written by:-
	Paulo Freire
	Roby Kidd
	Malcolm Knowles
	James Draper
210 An i	of 100 PU_2015_167 nvestigator studied the census data for a given area and prepared a write up based on them. Such a e up is called:- Article
	Research Paper
	Thesis
	Research Project
209 Neh	of 100 PU_2015_167 Iru Literacy Award and Tagore Literacy Award are given by:-
	National Council for Educational Research and Training(NCERT)
	National Council for Teacher Education (NCTE)
	International Universities Association of Continuing Education(IUACE)
	Indian Adult Education Association(IAEA)

197	of 100 PU_2015_167	
Am	ong the following, which was written by Roby Kidd:-	
	Life is Beautiful	
	Pedagogy of the Oppressed	
	How Adult Learn	
	Cultural Action for Freedom	
219 A po	of 100 PU_2015_167 pulation is divided into groups on the basis of socio-economic status which related to the dependent able. Which of the following is the most appropriate method of sampling? Stratified sampling	
	· ·	
	Quota sampling	
	Cluster sampling	
	Systematic sampling	
167	of 100 PU_2015_167 rld declaration on "Education for All" was made in:-	
	1996	
-	1980	
	1992	
58 of 100 204 PU_2015_167 Where the mind is without fear, and the head is held high, where the world is not broken up into fragments by narrow domestic walls was said by:-		
	Sardar Vallabhai Patel	
	John Dewey	
	Sri Aurobindo	
	Rabindranath Tagore	
208	of 100 PU_2015_167 ong the following, which provides school education:- NCERT	
	DIET	
	NIOS	

	IGNOU
195	of 100 5 PU_2015_167 shtriya Mahila Kosh was established in:-
	1994
	1996
	1993
	1990
61 245	of 100 PU_2015_167 e square root of variance is:- Error Variance Standard Deviation Standard Error Deviation Quotient
251	of 100 PU_2015_167 cording to APA style reference, the thesis title should contain
	14 words
	10 words
	15 words
	12 words
227 Wh	of 100 'PU_2015_167 ich one of the following tools will provide more valid information?
	Interview
	Questionnaire
	Observation
	Self-report
238 Wh	of 100 PU_2015_167 en a researcher combines the findings of several studies systematically and statistically, is known as:-
	Data analysis
	Meta analysis
	Path Analysis

	Critical analysis
229	of 100 PU_2015_167 ntify the dependent variable in the following hypotheses: Boys learn syllables slower than girls.
	Syllables
	Gender
	Speed of learning
	Meanings of syllables
258	of 100 PU_2015_167was first introduced by the biologist Sewall Wright in 1934 in connection with omposing the total correlation between any two variables in a causal system.
	Cluster Analysis
O	Path Analysis
O	Latent Structure Analysis
	Canonical Analysis
222	PU_2015_167 amount of dispersion of scores about a central value is measured by:- Percentile rank Standard deviation Skewness Quartiles
237	PU_2015_167 type of error involving the acceptance of the null hypothesis when it is false is known as:- Type III error Type II error Type I error Type I error Type IV error
247	PU_2015_167 Power, a statistical software is used to find out:- F-Value Significance

	Mean
	Effect size
246	of 100 PU_2015_167 SS is:-
	Statistical package for Statistical study
	Statistical package for Social sciences
	Statistical package for Social scientists
O	Statistical package for Scientific studies
235	PU_2015_167 xperimental research, the variable manipulated by the experimenter is:- Extraneous variable Confounding variable Independent variable Dependent variable
233	PU_2015_167 oothesis is a statement about:- Testing the words The relationship between two variables
	The tentative solution of the problem
	Intelligent guess of the solution of the problem
	of 100 PU_2015_167
ben	provides a framework for establishing the importance of the study as well as a chmark for comparing the results with other findings.
	Text books
	Journals
	Unpublished thesis
	Literature Review
221 A re	of 100 PU_2015_167 esearcher obtained a correlation coefficient of .70 between variables X and Y. This means that the ance common to both the variable is:- 70%

	30% 51%
75 (236)	of 100 PU_2015_167 study the influence of resilience on the scholastic achievement of class XII students, the most ropriate statistical technique used for analysing the data related to this objective will be:- Simple Regression MANOVA Data Analysis Multiple Regression
228	PU_2015_167 study the effect of X on Y, which type of research is appropriate:- Philosophical Survey Historical Experimental
250	PU_2015_167 is a means for testing objective theories by examining the relationship among ables. Mixed method Research Explorative Research Qualitative Research Quantitative Research
220	PU_2015_167 operational definition of a variable is one that:- Helps in understanding the meaning of the variable Helps in stating its relationship with other variables Provides directions for controlling the variables Provides directions for measuring the variable

79 of 100

234 PU_2015_167
When more than one observer is engaged in research setting, is called as:-

	Investigator triangulation
	Combined triangulation
	Triangulation
	Space Triangulation
223 Inde	of 100 PU_2015_167 ependent t test is useful when:-
	Relationship between two variables is to be determined
	The scale of measurement is ordinal
	Means of two groups are to be compared
	The distribution is not normal
262 The	of 100 PU_2015_167 word 'statistics' is used as:-
	Singular and plural both
	Plural
	Singular
	Not used
268	of 100 PU_2015_167 hod of complete enumeration is applicable for:-
	Understanding the statistics
	Knowing the production
	Knowing the quantum of export and import
	Knowing the population
83 of 100 282 PU_2015_167 Pie-chart represents the components of a factor by:-	
	angles
	circles
	percentages
	sectors
291	of 100 PU_2015_167 a can be well displayed or presented by way of:-

	cross classification
	no display
	dimensional table
	display
264	PU_2015_167 istical results are:-
	cent per cent correct
	misleading
	not absolutely correct
290	PU_2015_167 grouped data, the number of classes preferred are:- maximum possible adequate any arbitrarily chosen number minimum possible
277	PU_2015_167 rts and graphs are the presentation of numerical facts by means of:- points and lines signs journals books
269	PU_2015_167 atistical population may consist of:- Roman letters Alphabets an infinite number of items a finite number of items
	of 100 PU_2015_167

A complex table represents:-

	only one factor or variable
	two or more factors or variables
	always two factors or variables
0	no variable
271	PU_2015_167 nerical data presented in descriptive form are called:- textual presentation graphical presentation classified presentation tabular presentation
272	PU_2015_167 ether classification is done first or tabulation? No criterion. Classification precedes tabulation. Classification follows tabulation. Both are done simultaneously.
270	PU_2015_167 istical results are:- note true absolutely correct universally true true on average
284	PU_2015_167 ch of the following is a measure of central value? Standard deviation Mean deviation Quartile deviation Median
299	of 100 PU_2015_167 comparison of two different series, the best measure of dispersion is:-

For comparison of two different series, the best measure of dispersion is:-

0 0 0	mean deviation table no range standard calculation
293	PU_2015_167 ch of the following statement is not correct? The bars in a histogram touch each other Multiple bar diagrams also exist There are bar diagrams which are known as broken bar diagrams The bar in a column chart touch each other
289	PU_2015_167 udy based on complete enumeration is known as:- sample survey census survey case study pilot survey
283	of 100 PU_2015_167 In is a measure of:- area location (central value) correlation dispersion
263 Stat	PU_2015_167 istics deals with:- qualitative information numbers bulk information quantitative information

298 PU_2015_167
If the grouped data has open end classes, one cannot calculate:-

	mode
	quartiles
	mean
	median
100	of 100
	PU 2015 167
	ch of the following is not a measure of dispersion?
	mean deviation
	standard deviation
	average deviation from mean
	quartile deviation

160 PU Ph D Nano Sciences and Technology

100 Lore	F 100 PU_2016_160_E entz and Fitzgerald putforth the suggestion that there was contraction of bodies:-
0	Along the direction of their motion through the earth
	Along the direction of their motion through the sun
0	Perpendicular to the direction of their motion through the earth
0	None of these
104 Sou	F 100 PU_2016_160_E nd travels 40 m during 20 vibrations its wavelength I is:- 0.5 m 2 m 4 m 3 m
118	F 100 PU_2016_160_E Moving particle, whatever its nature has wave properties associated with it." is known as:- De-Broglie hypothesis
0	Bragg's hypothesis
0	Frank's hypothesis
0	None of these
121 Wat pres	PU_2016_160_E er rises through a height h in a capillary tube of internal radius r). If T is the S.T. of water, then the sure difference between the liquid level in the container and the lowest point of the concave hiscus is:- T/r r/T r/2T 2T/r
110 A ga	F 100 PU_2016_160_E as expands adiabatically at constant pressure such that its temperature T a 1/√v. The value of C _P /C\ ne gas is:- 2.00 1.50

0	1.30
О	1.67
112 The	f 100 PU_2016_160_E ratio n of the velocity of the aircraft to the velocity of sound is referred to as:-
0	Mach Number
0	Reynolds Number
0	Critical Number
0	None of these
107	F 100 PU_2016_160_E flow of heat from a hot body to a cold body is an example of:- Irreversible process
\circ	Adiabatic process
\circ	Reversible process
0	Isothermal process
103 A pe	F 100 PU_2016_160_E endulum suspended from the roof of a train has a period T When the train is at rest). When the train is elerating with a uniform acceleration 'a', the time period of the pendulum will:-
0	Increase
0	Decrease
0	Remain unaffected
0	Become infinite
106	T T ⁴
101	of 100 PU_2016_160_E addition of any velocity to the velocity of light merely reproduces:-
0	Greater than the velocity of light

0	The velocity of sound
0	The velocity of light
0	None of these
109	PU_2016_160_E temperature of a black body is gradually increased. The colour of the body will change from:- White-green-red Yellow-green-red Red-violet-yellow Red-yellow-blue
115 Whi	of 100 PU_2016_160_E ch of the following experiment is a direct evidence for the quantised nature of energy states in atom?
0	Frank Hertz experiment
0	Fermi Dirac experiment
0	Stern-Gelarch experiment
0	None of these
226	PU_2016_160_M resistance of a conductor is 5 Ω at 100°C. What is it resistance at 0°C? 4 Ω 3 Ω 2 Ω 1 Ω
14 of 100 224 PU_2016_160_M Moseley's law relates:-	
0	Frequency and atomic number
0	Wavelength and intensity of X-Rays
0	Wavelength and angle of scattering
0	Frequency and Voltage applied
220	of 100 PU_2016_160_M property of rotating the plane of vibration of a plane polarised light is called:- Optical photometry

0	Optical activity
	Optical Illumination
0	None of these
222 In a O	PU_2016_160_M Joule-Thomson experiment (Throttling process) :- The inversion temperature is the same for all real gases The inversion temperature is independent of the density of the real gas Ideal gases cannot be cooled for any P and T values
0	Ideal gases can be cooled for certain P and T values
261 A pa X-a	of 100 PU_2016_160_D article of mass m is moving with a constant velocity along a line parallel to the positive direction of the xis. The magnitude of its angular momentum w.r.t the origin:-
0	Remains constant for all positions of the particle
0	Goes on decreasing as x is increased
0	Goes on increasing as x is increased
0	Is zero
18 of 100 263 PU_2016_160_D A spherical solid ball of a kg mass and radius 3 cm is rotating about an axis passing through its with an angular velocity of 50 radian/s. The kinetic energy of rotation is:-	
0	4500 J
0	910 J
0	9/20 J
0	90 J
265 The	of 100 PU_2016_160_D espin angular momentum of an electron is:-
0000	In integral multiples of $h/2\pi$
	Always the same, $h/2\pi$
	In half integral multiples like $(s+1/2)^*h/2\pi$ where S as running integer
	Always the same, $h/4\pi$
267	of 100 PU_2016_160_D esistance potentiometer is a

0	
	Second order instrument
0	First order instrument
0	Zero order instrument
0	None of the above
139 A po	of 100 PU_2016_160_E blarizer used in dry cell is:-
0	Sodium carbonate
0	Manganese dioxide
0	Lead sulphate
0	Ammonium chloride
142	of 100 PU_2016_160_E ch metal is protected by a layer of its own oxide:-
_	Ag
0	Al
0	Fe
0	Au
125	PU_2016_160_E ong the following the molecule with highest dipole moment:- CHCl ₃
0	CH ₃ CI
0	CCI4
0	CH ₂ Cl ₂
131 In th	of 100 PU_2016_160_E ne Neptunium series: ₉₄ Pu ²⁴¹ →Am→Np→Pa→ ₉₄ U ²³³ :-
0	$\alpha, \alpha, \beta, \beta$
0	$\alpha, \beta, \alpha, \beta$
0	$\beta, \beta, \alpha, \alpha$
0	$\beta, \alpha, \alpha, \beta$
145	of 100 PU_2016_160_E re is a plenty of room at the bottom. This was stated by:-

O Issac Newton
^
Eric Drexier
Richard Feynman
Albert Einstein
26 of 100 134 PU_2016_160_E A plot of log[A] vs time (t) gives a straight line with negative slope. The order of the reactions:- 3 1 2
© Zero
27 of 100 140 PU_2016_160_E
The poisonous gas evolved in Bhopal gas tragedy:-
° co
Methyl isocyanate
Potassium cyanide
None of the these
28 of 100 146 PU_2016_160_E A bucky ball is a molecules consisting of carbon atom. 60
° 75
C ₅₀
C 100
29 of 100 143 PU_2016_160_E Which is 3D silicates:-
C Talc
© Quartz
C Asbestos
All of the above
30 of 100 124 PU_2016_160_E What is graphene:-

0	Thin film made from fullerenes
0	A one atom thick sheet of carbon
0	A software tool to measure and graphically represent nanoparticle
0	New material made from carbon nanotube
137 Whi	PU_2016_160_E ch of the following ions has zero crystal field stabilization energy in octahedral field:- Ca ²⁺ low spin Fe ³⁺ low spin Cr ³⁺ high spin Fe ³⁺ high spin
128	PU_2016_160_E nol undergoes the Freidel-Crafts reaction to form mainly the:- m-derivative P-derivative O-derivative All the above
230 Whi	PU_2016_160_M ch ration decides the efficiency of nanosubstances:- Pressure/volume Volume/weight Weight/volume Surface area/volume
232	PU_2016_160_M phene is a:- Wide band gap semiconductor
0	Not a semiconductor but behaves like graphite
0	A narrow bandgap semiconductor
0	Gapless band semiconductor
35 c	of 100

228 PU_2016_160_M Who coined the work nanotechnology:-

\circ	Sumiolijima
\circ	Richard Feynman
\circ	Eric Drexler
0	Albert Einstein
234 A TO	of 100 PU_2016_160_M CO is a semiconductor which has:- Low electrical resistivity and low optical transparency
0	High electrical conductivity and low optical transparency
0	High electrical resistivity and high optical transparency
0	High electrical conductivity and high optical transparency
268 Whi	of 100 PU_2016_160_D ch pair is incorrect:-
0	TiO-nonstoichiometric solid
0	AgBr-Frenkel defect
0	UO ₂ -anion deficient structure
0	CaTiO ₃ -pervoskite
274 Whi	of 100 PU_2016_160_D ch of the following is microwave inactive:- CO
0	NO
0	HCI
0	Cl_2
272 The	of 100 PU_2016_160_D symmetry in quasi crystals is:-
0	4 fold
0	3 fold
0	5 fold
0	6 fold
270	of 100 PU_2016_160_D ording to Stefan-Boltzmann law, heat loss proportion to:-

ОТ
C T ⁴
C T6
$C = T^2$
41 of 100 160 PU_2016_160_E If three identical dice are rolled, then probability that the same number appears on each of them is: 1/36 1/18 3/28 1/6
42 of 100 168 PU_2016_160_E If f :R \rightarrow Rbe a function satisfying f(2x + 3) + f (2x + 7) = 2 \forall x \in R then fundamentalperiod of f (x) is: 8 2 4 16
43 of 100 166 PU_2016_160_E If a =log ₂₄ 12 ,b =log ₃₆ 24 , c =log ₄₈ 36, then value of (1 + abc) is:- 2ac 2ab 0 2bc
44 of 100 148 PU_2016_160_E Functionsf and g are given by $f(x) = 3x^2 - 1$ and $g(x) = x^2 + 2$. Find an ² expression for:- $3x^4 + 12x^2 + 11$ $4x^2 + 1$ $3x^4 + 5x^2 - 2$ $9x^4 + 1$
45 of 100 162 PU_2016_160_E

If A and B are two square matrices of order nnandAB = B, BA = A, then $A^2 + B^2 = 2I$ holds true for the condition:-
A and B are non-zero
[©] A ≠ B ≠0
C A = B ≠0
C A = B = 0
46 of 100 150 PU_2016_160_E If all the roots of equations $(a-1)(1+x+x^2)^2 = (a+1)(x^4+x^2+1)$ are imaginary, then range of 'a' is:- $(-\infty,-2]$
[©] (2,∞)
(-2, 2)
[©] (-2,∞)
47 of 100 156 PU_2016_160_E If the binomial coefficients of three consecutive terms in the expansion of (1 + x) ⁿ are in the ratio 1 : 7 : 42 ,then value of 'n' is:-
° ₅₀
° 55
© ₆₅
° 32
48 of 100 158 PU_2016_160_E Total number of non-negative integral solutions of 18 <x₁+x₂+x₃≤ 20,="" by:-<="" given="" is="" td=""></x₁+x₂+x₃≤>
441
1245
685
1150
49 of 100 154 PU_2016_160_E
Let complex numbers z_1 and z_2 satisfy the conditions $ z+6i =2$ and
$ z-4i = \left(\frac{z-\overline{z}}{2i}\right)$ then minimum value of $ z_1-z_2 $ is:-
° 2
° 4

 \circ 6 50 of 100 152 PU_2016_160_E Let x , y be non-zero real numbers and the expression $x^{12} + y^{12} 48x^4y^4$ is not less than 'k' , then value of 'k'is equal to:-0 2¹² -2⁸ **-2**¹² 2⁸ 51 of 100 164 PU_2016_160_E Let 'M' be a 3x3 matrix, where MMT = I and det (M) = 1, then:det(M I) is always zero. 0 $det(M-I) \neq 0$. det(M + I) is always zero. $\det(M + 2I) = 0.$ 52 of 100 170 PU 2016 160 E $\left(\frac{2x-1}{1+x^2}\right)_{\text{and } f'(x) = \sin^2 x, \text{ then } \frac{dy}{dx}}$ $sin^2(1)$ 1 -cos 2 -2 sin² (1) $1 + \cos(1)$ 53 of 100 240 PU_2016_160_M If xdy = y(dx + ydy), y(1) = 1 and y(x) < 0, then y(-3) is equal to:-

- 0 1
- 0

54 of 100

238 PU_2016_160_M Minimum value of function f x) =max{x,x+1,2 -x} is:-	
° 3/2	
C 1	
C _{1/2}	
55 of 100 242 PU_2016_160_M If circle $x^2 + y^2 - 2x - 6y + 8 = 0$ meets the y-axis at 'A' and 'B', then circumcentre of \triangle ABC, where 'C' is the centre of circle, is given by:- (0, 3) (1/2, 3) (1, 1/2) (1/2, 5/2)	
56 of 100 236 PU_2016_160_M If f (x) and g (x) are differentiable functions for all $x \in [0, 1]$ such that f (0) = g (1) = 2, g (0) = 0 and f(1) = 6, then there exists some value of $x \in (0, 1)$ forwhich:-	
$f(\alpha) = 2g'(\alpha)$	
f(α) = 3g '(α)	
$f(\alpha) = 4g'(\alpha)$	
$f'(\alpha) = g'(\alpha)$	
57 of 100 276 PU_2016_160_D If the point Pa ² , a) lies in region corresponding to the acute angle between lines 2y = x and 4y = x ,then 'a' belongs to:- 2,6 4,8 4,6 2,4	
58 of 100 280 PU_2016_160_D	
For coplanar points $A(\vec{a})$, $B(\vec{b})$, $C(\vec{c})$, $D(\vec{d})$, if $(\vec{a} - \vec{d})$ $(\vec{b} - \vec{c}) = (\vec{b} - \vec{d})$ $(\vec{c} - \vec{a}) = 0$	
then point \underline{D} for $\underline{\Delta ABC}$ is:-	
Circumcentre	

0	Incentre
\circ	Centroid
\circ	Orthocentre
278 If th	PU_2016_160_D e pair of angular bisectors of the lines y^2 -3xy + 2x ² - 4x + 6y - 16 = 0 forms a triangle with theline 3x + 12, then the orthocentre of triangle is given by:- (5, 8) (10, 12) (12, 10) (8, 5)
282 If a	of 100 PU_2016_160_D matrix A is Hermitian, its Eigen values are always:-
0	zero
0	Real
0	Complex
0	infinite
174	of 100 PU_2016_160_E niconductors have the conductivity in the range of (ohm.m):- 10 ⁸ 10 ⁻⁸ 10 ⁴
0	
62 (180	of 100 PU_2016_160_E imum number of slip systems that must be operative during plastic deformation:-
0	4
\circ	5
\circ	6
\circ	3
176	of 100 PU_2016_160_E sotropy is shown by materials.

0000	single crystalline amorphous glass polycrystalline
192 In a the	PU_2016_160_E fiber reinforced polymer composites, for a given fiber volume content, Young's modulus depends on orientation of the fiber with respect to the applied load Which orientation of the fibers will give the cimum value of Young's modulus? transverse longitudinal random both transverse and longitudinal
178	PU_2016_160_E structures formed by rapid quenching from its molten state is known as:- pyrites metallic glasses chalcogenides perovskites
190	PU_2016_160_E ch one of the following material property is of significance in shock absorber:- hardness corrosion resistance fatigue yield strength
194	of 100 PU_2016_160_E nly sensitive piezoresistive materials are made from:- single crystalline Si polycrystalline Si amorphous Si nanocrystalline Si

68 of 100

	PU_2016_160_E mallest sizes, colour of the gold nanoparticles become:-
0	pink
0	yellow
0	red
0	colourless
182 Imp	of 100 PU_2016_160_E ortant property to be considered for shock resisting steel is:-
0	low tensile strength
0	high corrosion resistant
0	low hardness
0	high toughness
188	of 100 PU_2016_160_E I cells are used to
0	generate energy
0	harvest solar energy
0	store energy
0	induce photoelectric effect
186	of 100 PU_2016_160_E gers vector is related to:-
0	dislocation
0	acceleration
0	deceleration
0	unit cell
172	of 100 PU_2016_160_E pvskites have the general formula of:-
0	$A^{2+}B^{2+}X^{2-}_{3}$
0	$A^{3+}B^{3+}X^{2-}_{3}$
0	$A^{2+}B^{4+}X^{2-}_{3}$
0	$A^{2+}B^{2+}X^{2-}_{2}$

73 of 100

	PU_2016_160_M beck effect is used in:-
0	Thermoelectricity
0	Piezoelectricity
	Piezoresistivity
0	Electrostriction
247 Grai	pf 100 PU_2016_160_M In boundary area is higher for material.
0	amorphous
0	single crystalline
0	poly crystalline
0	nano crystalline
245	of 100 PU_2016_160_M piezoelectricity generation:-
0	silicon is preferred
0	materials with charge asymmetry in the unit cell is preferred
0	nanocrystalline materials are preferred
0	centro symmetric structures are preferred
249	of 100 PU_2016_160_M idual stress is not measured by:-
0	transmission electron microscopy
0	substrate curvature method
0	nanoindentation
0	X-ray diffraction
291 The	PU_2016_160_D phenomenon of the growth of smaller particles in sol to bigger particle is known as:-
0	annealing
0	Ostwald ripening
0	normalizing
O	sintering

78 of 100

	PU_2016_160_D conductivity value:-
0	increases with temperature for semiconductor
0	does not depend on mobility of charge carriers
0	does not change with dopant nature
0	increases with temperature for metals
285 Mea	of 100 PU_2016_160_D an free path for electronic conduction is higher in:- nanotube nanowire nanoparticle
0	quantum dots
287 The	of 100 PU_2016_160_D e saturation magnetization diminishes gradually and then abruptly drops to zero at the temperature wn as:-
0	Meissner
0	Neel
0	Hall
216	of 100 PU_2016_160_E
0 0	biosynthesis of both RNA and proteins is dependent upon the nucleotide sequence of:- tRNA DNA mRNA rRNA
0 0 0 0 82 0 208	biosynthesis of both RNA and proteins is dependent upon the nucleotide sequence of:- tRNA DNA mRNA
0 0 0 0 82 0 208	biosynthesis of both RNA and proteins is dependent upon the nucleotide sequence of:- tRNA DNA mRNA rRNA of 100 PU_2016_160_E
0 0 0 82 208 A ce	biosynthesis of both RNA and proteins is dependent upon the nucleotide sequence of:- tRNA DNA mRNA rRNA of 100 PU_2016_160_E ell to cell channel is made up of:-
0 0 0 82 208 A ce	biosynthesis of both RNA and proteins is dependent upon the nucleotide sequence of:- tRNA DNA mRNA rRNA of 100 PU_2016_160_E ell to cell channel is made up of:- 24 connexin

83 of 100 210 PU_2016_160_E Which of the following eukaryotic cell lacks nucleus:-		
0	Nerve cell	
0	WBC	
0	RBC	
0	Platelets	
84 of 100 218 PU_2016_160_E When a molecule of pyruvic acid is subjected to anaerobic oxidation there is:-		
0	Gain of 2 molecules of ATP	
0	Loss of 3 molecules of ATP	
0	Loss of 6 molecules of ATP	
0	Gain of 4 molecules of ATP	
85 of 100 202 PU_2016_160_E Which of the following is a non-membranous organelle?		
0	Plastid	
0	Endoplasmic Recticulum	
0	Ribosome	
0	Mitrochondrium	
212 Cell	of 100 PU_2016_160_E growth occurs during:- Interphase and Postmitotic growth	
0	Interphase	
0	Mitotic phase	
0	Postmitotic growth	
214 In h	of 100 PU_2016_160_E uman beings, which part shows the minimum increase in weight from birth to adulthood?	
0	Brain	
0	Fat	
0	Skeleton	
0	Muscles	

196 What cells	of 100 PU_2016_160_E o among the following proposed the hypothesis: the bodies of animals and plants are composed and products of cells?
0	Robert Hooke
0	Theodore Schwann
0	Darwin
0	Rudolf Virchow
206 G-p	of 100 PU_2016_160_E rotein is:-
0	Tetrameric
0	Bimeric
0	Unimeric
0	Trimeric
204	of 100 PU_2016_160_E cell wall of plants are made up of fibrils which predominantly contain:-
0	Glucose
0	Proteins
0	Phospholipids
0	Polysaccharides
200 Eac	of 100 PU_2016_160_E th ribosome consists of two unequal subunits composed of:-
0	RNA and proteins
0	Only RNA
0	DNA and proteins
0	RNA and carbohydrates
198	of 100 PU_2016_160_E lakoids in a plastid are place one above the other like a stack of coins to form a:-
0	Granum
0	Crista
0	Stroma
0	Matrix

of

93 of 100 256 PU_2016_160_M Different types of haemoglobin are produced in different stages of human development. It is an exam of:-		
0	Multiplegene family	
0	Split genes	
0	Repeated genes	
0	Gene replacement	
252 The of:-	of 100 PU_2016_160_M acetyl groups for cytoplasmic fatty acid synthesis appear in the cytoplasm, as a result of the activity	
0	Citrate synthetase	
0	Isocitrate dehydrogenase	
0	Thiolase	
0	Citrate lyase	
254	of 100 PU_2016_160_M rosatellite sequences are repeat units with base pairs:-	
0	11-60	
0	5-30	
0	1-6	
0	20-120	
258	of 100 PU_2016_160_M enzyme which converts glucose to glucose 6-phosphate is:-	
0	Glucose 6-phosphate	
0	Hexokinase	
0	Glucose synthetase	
0	Phosphorylase	
296 Life	of 100 PU_2016_160_D without air is:-	
0	free from oxidative damage	
0	reduction	
0	impossible	

0	anaerobic
294	of 100 PU_2016_160_D en ATP is converted into ADP it releases:- Energy Hormones Oxygen Enzymes
298	of 100 PU_2016_160_D nase is:- Enzyme complex Pyruvate dehydrogenase Acetaldehyde dehydrogenase Pyruvate decarboxylase
292	Of 100 PU_2016_160_D piration is an:- Anabolic process Endergonic process Exothermic process
4,7	Endothermic process

Examination: Ph.D. Nanoscience and Technology	
Section 1 - Section 1	
Question No.1	4.00 Bookmark
If degree of freedom (F) is equal to zero, then the system is called by	
Invariant Bivariant	
C Univariant	
© Trivariant	
Question No.2	4.00 Bookmark □
Basicity order of pyrrole, furan, thiophene and benzene compounds is	DOOKIIIAIK [
© Pyrrole>thiophene>furan>benzene	
© Furan>pyrrole>thiophene>benzene	
benzene>thiophene>furan>pyrrolePyrrole>furan>thiophene>benzene	
The second second second	
Question No.3	4.00
	Bookmark □
(1) (2) (3) (4) O 2	
03	
0.1	
C 4	
Question No.4	4.00
	Bookmark □
412	
If $(x + iy) = \sqrt{\frac{1+2i}{3+4i}}$, then $(x^2 + y^2)^2 =$	
0.5	
C <u>2</u> 5	
5	
$C = \frac{5}{2}$	
C <u>1</u> 5	
5	
Question No.5	4.00
Which is a vector in the following?	Bookmark □
Which is a vector in the following? © Volume	
© Mass	
© Distance	
○ Velocity	
Question No.6	4.00
She studies very hard for the exams,?	Bookmark □
O doesn't she?	

Question No.12	4.00
	Bookmark □
A perfect black body	
Absorbs all the incident radiation	

- Allows all the incident radiation
- Reflects all the incident radiation
- None of these

Question No.13		4.00
		Bookmark □
Match the following:		
a. Newton-Raphson	1. Integration	
b. Runge-kutta	2. Root finding	
c. Gauss-seidel	3. Ordinary differential equations	
d. Simpson's rule	4. Solution of system of linear equations	
6 - 2 - 2 - 4 - 4 4		
○ a-2, b-3, c-4, d-1○ a-3, b-2, c-1, d-4		
○ a-1, b-4, c-2, d-3		
○ None of these		
Question No.14	A PA	4.00
Which of the following can b	pe used for cathodic protection?	Bookmark □
O AI		
○ Cd ○ Cu		
C none of the these		
Question No.15		4.00
If A+B means A is daughted A-B means A is husband of A × B means A is brother o	fB	Bookmark □
	C × D, which of the following statement is not necessarily true?	
D is brother of CB is the brother of A		
C A, B, C are male		
C C is the brother of A		
Question No.16		4.00
Neutral amino acid is		Bookmark 🗖
C Histidine		
C LeucineC Aspartic acid		
C Lysine		
Question No.17		4.00 Bookmark □
The value of $\lim_{x \to \infty}$	$\frac{4x^2-5x}{1-3x^2}$	
C -3		
4		
O 3/4		

0	4
	_
	2
	- 3

Question No.18

4.00

Bookmark □

This is the school where I studied till class 5.

The underlined word is a

- o preposition
- adverb
- c adjective
- o pronoun

Question No.19

4.00

Bookmark □

If A = $x^2y\overline{i}$ - $xyz\overline{j}$ + $yz^2\overline{k}$, determine div \overline{A} at point (1,2,3)

- O 12
- 0 11
- C 15
- C 13

Question No.20

4.00

Bookmark □

How many ¹³C resonance signals are predicted for 1-phenyl-1-propanol?

- 0 8
- 0 10
- 0 9
- 07

Question No.21

4.00

Bookmark □

Which is a correct form of Cauchy-Riemann equation

$$\frac{\partial u}{\partial x} = \frac{-\delta v}{\delta y}$$

$$\frac{\partial u}{\partial x} = \frac{\delta v}{\delta v}$$

$$\frac{\partial u}{\partial y} = \frac{\delta v}{\delta x}$$

Question No 22

4 00

Bookmark

Bookmark □

$A = \begin{bmatrix} 1 \\ 3 \end{bmatrix}$	2]	, using cayley-Hamilton theorem find the value of ${\sf A}^2$?

$$\begin{bmatrix} 22 & 15 \\ 10 & 7 \end{bmatrix}$$

$$^{\circ} \begin{bmatrix} 8 & 11 \\ 15 & 22 \end{bmatrix}$$

$$^{\circ}$$
 $\begin{bmatrix} 7 & 10 \\ 15 & 22 \end{bmatrix}$

$$\begin{bmatrix} 7 & 11 \\ 16 & 21 \end{bmatrix}$$

Question No.23 4.00

Following which is not a linear equation

$$\frac{dy}{dx} + xy = 1$$

$$\stackrel{\text{C}}{=} \frac{d^2y}{dx^2} + 3\frac{dy}{dx} + 2y = 0$$

$$\frac{d^4y}{dx^4} + 3y = \sin x$$

$$\frac{d^2y}{dx^2} + y \frac{dy}{dx} + y = x$$

Question No.24 4.00

Which of the following has more tolerance for acidic pH (lower pH)?

- Yeast and moulds
- Bacteria
- C E. coli
- None of these

Question No.25 4.00

Which one is the heaviest particulate component of the cell?

- Cytoplasm
- Mitochondria
- Nucleus
- Golgi apparatus

Question No.26 4.00

Bookmark □

Bookmark □

ି lonization ୍ର Annihilation	
C Doping Recombination	
Question No.27	4.00 Bookmark
The order and degree of the differential equation $\left[1+4\frac{dy}{dx}\right]^{\frac{2}{3}}=4\frac{d^2y}{dx^2}$ are respectively	
$\begin{array}{c} C \\ 1, \frac{2}{3} \\ C \\ 2, \frac{2}{3} \end{array}$	
0 3, 2 0 2, 3	A
Question No.28	4.00 Bookmark □
What is the diameter of the atom?	DOOKIIIAIK [
© 10 ⁻¹⁰ mm © 10 ⁻¹⁰ μm	
^C 10 ⁻¹⁰ cm	
^C 10 ⁻¹⁰ m	
Question No.29	4.00 Bookmark
A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together	
of the same work they can finish in a day? © 0 1/8	
© 0 1/4 © 0 1/6	
0 0 1/2	
Question No.30	4.00
Who discovered superconductivity in 1911?	Bookmark
KamerlinghOnnesCharless Coulomb	
○ Alex Muller	
© Geory Bednorz	
Question No.31	4.00 Bookmark
In the medium of free space, the divergence of the electric flux density will be	
O -1 O 1	
ი ი	

O Infinity	
Question No.32	4.00 Bookmark □
What is the x-axis of a mass spectrum?	
○ Mass/charge ○ Charge	
○ Mass/energy	
© Mass	
Question No.33	4.00 Bookmark
Crumb : Bread :: © Water : Bucket	
© Tea : Cup	
○ Flower : Vase	
○ Splinter : Wood	
	V
Question No.34	4.00
Miller indices for Octahedral plane in cubic crystal	Bookmark
o (100)	
0 (110)	
C (111) C None of the these	
Question No.35	4.00 Bookmark
What is the generation time of Escherichia coli? © 200 hours	
© 20 hours	
© 20 minutes	
© 20 days	
Question No.36	4.00 Bookmark □
One of characteristic properties of polymer material	BOOKINAIK [
O High mechanical strength	
High elongationHigh temperature stability	
© Low hardness	
Question No.37	4.00
Find the odd one out?	Bookmark
© Withdrawal	
© Deduction	
© Debit © Deposit	
	4.00
Question No.38	4.00

In Photosynthesis, what is the source of electrons?	
○ NADH ○ Carbohydrates	
C CO ₂	
O Water	
O Water	
Question No.39	4.00
The angle between the lines $2x = 3y = -z$ and $6x = -y = -4z$	Bookmark □
○ 900	
○ 300	
C 45°	
° 60°	
Question No.40	4.00
If fluid expands suddenly in to the vacuum through an orifice of large dimension, then such process is called as	Bookmark □
C Adiabatic expansion	
○ Throttling	A
© Free expansion	
C Hyperbolic expansion	
Question No.41	4.00
	Bookmark
The time-independent Schrödinger wave equation is $H\Psi$ = $E\Psi$, where H is	
The time-independent Schrödinger wave equation is HΨ = EΨ, where H is C Hamiltonian operator C Kronecker delta C Ladder operator	
The time-independent Schrödinger wave equation is $H\Psi = E\Psi$, where H is O Hamiltonian operator O Kronecker delta	
The time-independent Schrödinger wave equation is HΨ = EΨ, where H is C Hamiltonian operator C Kronecker delta C Ladder operator None of the above Question No.42	Bookmark 4.00
The time-independent Schrödinger wave equation is HΨ = EΨ, where H is C Hamiltonian operator C Kronecker delta C Ladder operator None of the above Question No.42	Bookmark □
The time-independent Schrödinger wave equation is HΨ = EΨ, where H is C Hamiltonian operator C Kronecker delta C Ladder operator None of the above Question No.42	Bookmark 4.00
The time-independent Schrödinger wave equation is $H\Psi = E\Psi$, where H is O Hamiltonian operator O Kronecker delta O Ladder operator O None of the above Question No.42 The probability that the three cards, drawn from a pack of 52 cards, are all black is O $\frac{2}{19}$	Bookmark 4.00
The time-independent Schrödinger wave equation is $H\Psi = E\Psi$, where H is C Hamiltonian operator Kronecker delta Ladder operator None of the above Question No.42 The probability that the three cards, drawn from a pack of 52 cards, are all black is $\frac{2}{19}$ $\frac{2}{19}$	Bookmark 4.00
The time-independent Schrödinger wave equation is $H\Psi = E\Psi$, where H is C Hamiltonian operator C Kronecker delta C Ladder operator None of the above Question No.42 The probability that the three cards, drawn from a pack of 52 cards, are all black is C $\frac{2}{19}$ C $\frac{3}{17}$	Bookmark 4.00
The time-independent Schrödinger wave equation is $H\Psi = E\Psi$, where H is C Hamiltonian operator Kronecker delta Ladder operator None of the above Question No.42 The probability that the three cards, drawn from a pack of 52 cards, are all black is $\frac{2}{19}$ $\frac{2}{19}$	Bookmark 4.00
The time-independent Schrödinger wave equation is $H\Psi = E\Psi$, where H is C Hamiltonian operator C Kronecker delta C Ladder operator None of the above Question No.42 The probability that the three cards, drawn from a pack of 52 cards, are all black is C $\frac{2}{19}$ C $\frac{3}{17}$ C $\frac{1}{17}$	Bookmark 4.00
The time-independent Schrödinger wave equation is $H\Psi = E\Psi$, where H is C Hamiltonian operator C Kronecker delta C Ladder operator None of the above Question No.42 The probability that the three cards, drawn from a pack of 52 cards, are all black is C $\frac{2}{19}$ C $\frac{3}{17}$ C $\frac{1}{17}$	Bookmark 4.00
The time-independent Schrödinger wave equation is HΨ = EΨ, where H is C Hamiltonian operator C Kronecker delta C Ladder operator None of the above Question No.42 The probability that the three cards, drawn from a pack of 52 cards, are all black is C 2/19 C 3/17 C 1/17 C 1/17 C 2/2	Bookmark 4.00
The time-independent Schrödinger wave equation is $H\Psi = E\Psi$, where H is C Hamiltonian operator Kronecker delta Ladder operator None of the above Question No.42 The probability that the three cards, drawn from a pack of 52 cards, are all black is $\frac{2}{19}$ $\frac{3}{17}$ $\frac{3}{17}$ $\frac{1}{17}$ $\frac{2}{17}$	4.00 Bookmark
The time-independent Schrödinger wave equation is $H\Psi = E\Psi$, where H is O Hamiltonian operator O Kronecker delta C Ladder operator None of the above Question No.42 The probability that the three cards, drawn from a pack of 52 cards, are all black is O $\frac{2}{19}$ O $\frac{3}{17}$ O $\frac{1}{17}$ O $\frac{1}{17}$ O $\frac{2}{17}$	4.00 Bookmark □ 4.00 A.00
The time-independent Schrödinger wave equation is HΨ = EΨ, where H is C Hamiltonian operator Kronecker delta Ladder operator None of the above Question No.42 The probability that the three cards, drawn from a pack of 52 cards, are all black is C 2/19 C 3/17 C 1/17 C 2/17 Question No.43 Polymers are in nature.	4.00 Bookmark □ 4.00 A.00

Question No.44	4.00 Bookmark □
If $f(x) = \cos(3x)$, then $f'(\frac{\pi}{9})$	
$C = \frac{-3\sqrt{3}}{3}$	
C 3√3	
2 C /-	
$\frac{-\sqrt{3}}{2}$	
$\frac{C}{2}$	
Question No.45	4.00
Fermi energy level for intrinsic semiconductors lies C At middle of the band gap	Bookmark □
Close to conduction band	
Close to valence band None of the these	
Question No.46	4.00 Bookmark □
Correct the error in the italicized part of the sentence by choosing the most appropriate options Job was a tiny man, barely five feet tall, with a spright walk	DOORIII I
○ spright walk	
○ spright walkingly○ a sprightly walking	
ି a sprightly walk	
Question No.47	4.00 Bookmark
In Uv-visible spectrum, absorbance changes with	BOOKIIIAIK [
Path lengthConcentration	
C Absorptivity	
○ All of the above	
Question No.48	4.00 Bookmark □
Statement: Ten Candidates, who were on the waiting list could finally be admitted to the course. Assumptions:	
I. A large of number of candidates were on the waiting list. II. Wait listed candidates do not ordinarily get admission.	
If both Land II are implicit	

If neither I nor II is implicit If only assumption II is implicit If only assumption I is implicit	
Following equation is related to corrosion rate Nernst equation Faraday's equation Both A and B None of the these	4.00 Bookmark ☐
Question No.50 The co-ordination number of cubic close packed (ccp) crystal structure is? 8 6 10 12	4.00 Bookmark
Question No.51 $f^{(0)}(x) = \sin(x), \text{ then } f^{(5)}(x) = ?$ $\cos x$ $\sin x$ $\cos x$ $-\cos x$ $-\sin x$	4.00 Bookmark □
Question No.52 The hydrogen bonds between peptide linkages of a protein molecules are interfered by Guanidine Salicylic acid Uric acid Oxalic acid	4.00 Bookmark □
Porcelain is made for making crockery which is itself being prepared by Mud Silicon Soil Clay	4.00 Bookmark <u></u> □
Question No.54 An organism has an optimal growth rate when the hydrogen ion concentration is very high. This organism is Aerotolerant anaerobe Osmotolerant Neutrophile Acidophilec	4.00 Bookmark
Question No.55 The chemical formula of hypo-phosphorous acid is	4.00 Bookmark ☐

П ₅ Г ₃ ∪ ₁₀	
[°] H ₄ P ₂ O ₇	
° H₃PO₃	
° H ₃ PO ₂	
1131 02	
Question No.56	4.00
The digestive enzymes of cellular compounds are confined to	Bookmark 🗖
© Ribosomes © Polysomes	
© Lysosomes	
© Peroxisomes	
Question No.57	4.00
The molecule which does not possess a permanent dipole moment is	Bookmark □
° NF ₃	V
° CH ₂ Cl ₂	
° BF ₃	
° NO ₂	
Question No.58	4.00
A 4 V M	Bookmark □
The correct order of basicity of lanthanide ion is	Bookmark □
The correct order of basicity of lanthanide ion is C La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺	Bookmark □
[°] La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺	Bookmark □
[°] La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺	Bookmark □
[°] La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺	Bookmark □
[°] La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺	Bookmark □
	Bookmark □
C La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺ La ³⁺ > Lu ³⁺ > Ce ³⁺ > Eu ³⁺ Ce ³⁺ > Lu ³⁺ > La ³⁺ > Eu ³⁺ Lu ³⁺ > Ce ³⁺ > Eu ³⁺ > La ³⁺	Bookmark □
C La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺ C La ³⁺ > Lu ³⁺ > Ce ³⁺ > Eu ³⁺ C Ce ³⁺ > Lu ³⁺ > La ³⁺ > Eu ³⁺ C Lu ³⁺ > Ce ³⁺ > Eu ³⁺ > La ³⁺	
C La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺ La ³⁺ > Lu ³⁺ > Ce ³⁺ > Eu ³⁺ Ce ³⁺ > Lu ³⁺ > La ³⁺ > Eu ³⁺ Lu ³⁺ > Ce ³⁺ > Eu ³⁺ > La ³⁺	4.00
C La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺ C La ³⁺ > Lu ³⁺ > Ce ³⁺ > Eu ³⁺ C Ce ³⁺ > Lu ³⁺ > La ³⁺ > Eu ³⁺ Lu ³⁺ > Ce ³⁺ > Eu ³⁺ > La ³⁺ Question No.59 Buffering action of haemoglobin is mainly due to its Glutamine residues Lysine residues	4.00
C La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺ Ce ³⁺ > Lu ³⁺ > Eu ³⁺ Ce ³⁺ > Lu ³⁺ > Eu ³⁺ Lu ³⁺ > Ce ³⁺ > Eu ³⁺ Lu ³⁺ > Ce ³⁺ > Eu ³⁺ Question No.59 Buffering action of haemoglobin is mainly due to its Glutamine residues Lysine residues Histidineresidues Histidineresidues	4.00
C La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺ C La ³⁺ > Lu ³⁺ > Ce ³⁺ > Eu ³⁺ C Ce ³⁺ > Lu ³⁺ > La ³⁺ > Eu ³⁺ Lu ³⁺ > Ce ³⁺ > Eu ³⁺ > La ³⁺ Question No.59 Buffering action of haemoglobin is mainly due to its Glutamine residues Lysine residues	4.00
C La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺ Ce ³⁺ > Lu ³⁺ > Eu ³⁺ Ce ³⁺ > Lu ³⁺ > Eu ³⁺ Lu ³⁺ > Ce ³⁺ > Eu ³⁺ Lu ³⁺ > Ce ³⁺ > Eu ³⁺ Question No.59 Buffering action of haemoglobin is mainly due to its Glutamine residues Lysine residues Histidineresidues Histidineresidues	4.00 Bookmark □
C La³+> Ce³+> Eu³+> Lu³+ C La³+> Lu³+> Ce³+> Eu³+ C Ce³+> Lu³+> La³+> Eu³+ Lu³+> Ce³+> Eu³+> La³+ Question No.59 Buffering action of haemoglobin is mainly due to its Glutamine residues Lysine residues Histidineresidues Arginine residues Arginine residues Arginine residues Mich of the following formulae can be used to determine the Debroglie wavelength?	4.00 Bookmark □
Cla³+> Ce³+> Eu³+> Lu³+ Cla³+> Lu³+> Ce³+> Eu³+ Cla³+> Lu³+> Eu³+ Lu³+> Ce³+> Eu³+ Lu³+> Ce³+> Eu³+ Lu³+> La³+ Clustion No.59 Buffering action of haemoglobin is mainly due to its Glutamine residues Lysine residues Histidineresidues Arginine residues Arginine residues Question No.60	4.00 Bookmark □
C La³+> Ce³+> Eu³+> Lu³+ C La³+> Lu³+> Ce³+> Eu³+ C Ce³+> Lu³+> La³+> Eu³+ Lu³+> Ce³+> Eu³+> La³+ Question No.59 Buffering action of haemoglobin is mainly due to its Glutamine residues Lysine residues Histidineresidues Arginine residues Arginine residues Arginine residues Mich of the following formulae can be used to determine the Debroglie wavelength?	4.00 Bookmark □
C La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺ C La ³⁺ > Lu ³⁺ > Ce ³⁺ > Eu ³⁺ C Ce ³⁺ > Lu ³⁺ > La ³⁺ C Lu ³⁺ > Ce ³⁺ > Eu ³⁺ Lu ³⁺ > La ³⁺ Question No.59 Buffering action of haemoglobin is mainly due to its Glutamine residues Lysine residues Histidineresidues Histidineresidues Arginine residues Arginine residues Question No.60 Which of the following formulae can be used to determine the Debroglie wavelength? A = h/mv	4.00 Bookmark □
C La ³⁺ > Ce ³⁺ > Eu ³⁺ > Lu ³⁺ C La ³⁺ > Lu ³⁺ > Ce ³⁺ > Eu ³⁺ C Ce ³⁺ > Lu ³⁺ > La ³⁺ > Eu ³⁺ C Lu ³⁺ > Ce ³⁺ > Eu ³⁺ > La ³⁺ Question No.59 Buffering action of haemoglobin is mainly due to its C Glutamine residues C Lysine residues C Histidineresidues C Arginine residues C Arginine residues Question No.60 Which of the following formulae can be used to determine the Debroglie wavelength? C $\lambda = h/mv$ C $\lambda = h/mv$	4.00 Bookmark □

Question No.61	4.00
The structure of XeOF ₄ molecule is	Bookmark □
© Square planar	
○ Square pyramidal	
○ distorted octahedral	
© Pyramidal	
Question No.62	4.00
Coordination number in simple cubic crystal structure	Bookmark
0.4	
0 2 0 3	
0.1	V
Question No.63	4.00
	Bookmark
If $A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$, then $A^2 + 2A$ equals to	
If $A = \begin{bmatrix} 0 & 1 & 0 \end{bmatrix}$, then $A^2 + 2A$ equals to	
0 0 1	
O A	
0 4A	
C 2A	
O 3A	
Question No.64	4.00
	Bookmark □
A 2 nd order reflection was observed with the angle of 22.2 ⁰ , when x-rays of wavelength 300 p	m are
allowed to fall on (111) plane of the crystal. Find edge length of unit cell. Sin 22.2° = 0.3778	
© 1543 pm	
O 1443 pm	
○ 1643 pm	
○ 1343 pm	
Question No.65	4.00
	Bookmark
The pH of blood is 7.4 when the ratio between H ₂ CO ₃ and NaHCO ₃ is	
C 1:25	
0 1:30	
© 1:10 © 1:20	
C 1.20	
Question No.66	4.00

C Hamonic	In which of the following forms can Maxwell's equation not be represented	вооктагк [
Cuestion No.67 Cuestion No.67	O Differential	
Cuestion No.67 And B are two scalars, then ∇(AB) ○ ∇A, ∇B ○ B (∇B) + A(∇A) ○ ∇A + ∇B ○ A(∇B) + B (∇A) Cuestion No.68 Which one of the following metabolities is not directly produced in the hexasemonophosphate pathway? ○ Dihydroxy acetore phosphate ○ Fuchose-6-phosphate ○ Fuchose-6-phosphate ○ Fuchose-6-phosphate ○ Erythrose-4-phosphate ○ Increases with imperature ○ Docreases with pressure ○ Bookmark □ Cuestion No.70 A 00 Cuestion No.70 Bookmark □ Cuestion No.70 A 00 Cuestion No.70 Bookmark □ Cuestion No.70 A 00 Cuestion No.70 Bookmark □ Cuestion No.71 Cuestion No.72 Cuestion No.72 Cuestion No.72 Cuestion No.72		
If A and B are two scalars, then ∇(AB) ∇A, ∇B B (∇B) + A(∇A) ∇A + ∇B A(∇B) + B (∇A) Question No.68 Which one of the following metabolities is not directly produced in the hexosemonophosphate pathway? Dihydroxy acetone phosphate Fructose-6-phosphate Fructose-6-phosphate Fructose-4-phosphat Question No.69 4.00 Bookmark The magnitude of adsorption of gas on solid surface is Increases with temperature Decreases with temperature Choreases with pressure Both B&C Question No.70 A.00 Bookmark In many proteins the hydrogen bonding produces a regular coiled arrangement called A-helix Bookmark Bookmark Bookmark A.00 Bookmark A.00 Bookmark A.00 Bookmark Bookmark A.00 Bookmark A.00 Bookmark Bookmark Being awarded the Best Singer in 2010 marked a in her life. Sign-post C memorial C milestone C yardstick		
If A and B are two scalars, then ∇(AB) ∇A, ∇B B (∇B) + A(∇A) ∇A + ∇B A(∇B) + B (∇A) Question No.68 Which one of the following metabolities is not directly produced in the hexosemonophosphate pathway? Dihydroxy acetone phosphate Fructose-6-phosphate Fructose-6-phosphate Fructose-4-phosphat Question No.69 4.00 Bookmark The magnitude of adsorption of gas on solid surface is Increases with temperature Decreases with temperature Choreases with pressure Both B&C Question No.70 A.00 Bookmark In many proteins the hydrogen bonding produces a regular coiled arrangement called A-helix Bookmark Bookmark Bookmark A.00 Bookmark A.00 Bookmark A.00 Bookmark Bookmark A.00 Bookmark A.00 Bookmark Bookmark Being awarded the Best Singer in 2010 marked a in her life. Sign-post C memorial C milestone C yardstick		
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© ∇A. ∇B © B (∇B) + A(∇A) © ∇A + ∇B © A(∇B)+ B (∇A) Question No.68 Which one of the following metabolites is not directly produced in the hexosemonophosphate pathway? © Dihydroxy acetone phosphate © Fructose-6-phosphate © CO2 © Enythrose-4-phosphat Question No.69 4.00 Bookmark □ Bookmark □ C increases with temperature © Decreases with temperature © Increases with temperature © Both B&C Question No.70 A.00 Bookmark □ Bookmark □ C α-helix © β-helix © Both (A) and (B) © None of these Question No.71 Being awarded the Best Singer in 2010 marked a in her life. © sign-post © memorial © milestone © yardstick Question No.72 4.00 Bookmark □	Question No.67	
C B (∇B) + A(∇A) C ∇A + ∇B A(∇B) + B (∇A) Cuestion No.68 A 1.00 Bookmark □ Bookmark □ Bookmark □ C CO2 C Erythrose-4-phosphate C Co2 C Increases with temperature C Decreases with temperature C Decreases with pressure C Both B&C Cuestion No.70 A 1.00 Bookmark □ Cuestion No.70 A 1.00 Bookmark □ Cuestion No.70 A 1.00 C α-helix C β-helix C Sign-post C memorial C milestone C yardstick C yardstick C yardstick C 4.00 Cuestion No.72 A 1.00 Cuestion No.72 A 1.00 Cuestion No.72	If A and B are two scalars, then $\nabla(AB)$	
C VA + VB C A(VB)+ B (VA) Question No.68 Which one of the following metabolites is not directly produced in the hexosemonophosphate pathway? C Diriydroxy acetone phosphate C CO2 Erythrose-4-phosphat Question No.69 4.00 Bookmark The magnitude of adsorption of gas on solid surface is C increases with temperature C Decreases with pressure C Both B&C Question No.70 4.00 Bookmark In many proteins the hydrogen bonding produces a regular coiled arrangement called C α-helix C β-helix C Both (A) and (B) C None of these Question No.71 4.00 Bookmark Being awarded the Best Singer in 2010 marked a in her life. C sign-post C memorial C milestone C yardstick Question No.72 4.00 Bookmark Bookmark A.00 Bookmark	$^{\circ}$ $\nabla A. \nabla B$	
Cuestion No.68 Which one of the following metabolites is not directly produced in the hexasemonophosphate pathway? □ Dihydroxy acetone phosphate □ Frutose-6-phosphate □ CO2 □ Erythrose-4-phosphate □ Co2 □ Erythrose-4-phosphate □ Decreases with temperature □ Decreases with temperature □ Decreases with pressure □ Both B&C Question No.70 In many proteins the hydrogen bonding produces a regular coiled arrangement called □ α-helix □ Bokmark □ Sookmark □ Bookmark □ Bookmark □ Bookmark □ A.00 □ Rookmark □ Cuestion No.71 □ Rookmark □ Sookmark □ Rookmark	$^{\circ}$ B (∇ B) + A(∇ A)	
Question No.68	$\circ \nabla A + \nabla B$	
Question No.68	$^{\circ}$ A(∇ B)+ B (∇ A)	À
Which one of the following metabolites is not directly produced in the hexosemonophosphate pathway? □ Dihydroxy acetone phosphate □ Fructose-6-phosphate □ CO2 □ Erythrose-4-phosphat Question No.69 The magnitude of adsorption of gas on solid surface is □ increases with temperature □ Decreases with pressure □ Increases with pressure □ Both B&C Question No.70 In many proteins the hydrogen bonding produces a regular coiled arrangement called □ α-helix □ β-helix □ Both (A) and (B) □ None of these Question No.71 Being awarded the Best Singer in 2010 marked a in her life. □ sign-post □ milestone □ yardstick Question No.72 4.00 Bookmark □		<u> </u>
Which one of the following metabolites is not directly produced in the hexosemonophosphate pathway? © Dihydroxy acetone phosphate © Fructose-6-phosphate © CO2 © Erythrose-4-phosphat Question No.69 4.00 Bookmark □ The magnitude of adsorption of gas on solid surface is © increases with temperature © Decreases with temperature © Increases with pressure © Both B&C Question No.70 4.00 Bookmark □ In many proteins the hydrogen bonding produces a regular coiled arrangement called © α-helix © β-helix © Both (A) and (B) © None of these Question No.71 4.00 Bookmark □ Being awarded the Best Singer in 2010 marked a in her life. © sign-post © memorial © milestone © yardstick	Question No.68	
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C CO2		
Question No.69 4.00 Bookmark □ The magnitude of adsorption of gas on solid surface is ○ increases with temperature ○ Decreases with temperature ○ Increases with pressure ○ Bookmark □ Cathelix Cathelix		
Bookmark □ The magnitude of adsorption of gas on solid surface is ○ increases with temperature ○ Decreases with pressure ○ Increases with pressure ○ Both B&C Question No.70 4.00 Bookmark □ In many proteins the hydrogen bonding produces a regular coiled arrangement called ○ α-helix ○ β-helix ○ Both (A) and (B) ○ None of these Question No.71 Being awarded the Best Singer in 2010 marked a in her life. ○ sign-post ○ memorial ○ milestone ○ yardstick Question No.72 4.00 Bookmark □	© Erythrose-4-phosphat	
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Cluestion No.70 Question No.70 A.00 Bookmark C α-helix C β-helix C Both (A) and (B) None of these Question No.71 Being awarded the Best Singer in 2010 marked a in her life. C sign-post C memorial C milestone C yardstick Question No.72 4.00 Bookmark Bookmark Bookmark A.00 Bookmark Bookmark Bookmark A.00 Bookmark		
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Question No.71 Being awarded the Best Singer in 2010 marked a in her life. Sign-post memorial milestone yardstick Question No.72 4.00 Bookmark	© Both (A) and (B)	
Being awarded the Best Singer in 2010 marked a in her life. orange sign-post orange memorial orange milestone orange yardstick Question No.72 4.00 Bookmark	○ None of these	
Being awarded the Best Singer in 2010 marked a in her life. © sign-post © memorial © milestone © yardstick Question No.72 4.00 Bookmark	Question No.71	
 Sign-post memorial milestone yardstick Question No.72 4.00 Bookmark □	Being awarded the Best Singer in 2010 marked a in her life.	Bookmark □
© milestone © yardstick Question No.72 4.00 Bookmark □	ℂ sign-post	
O yardstick Question No.72 4.00 Bookmark □		
Bookmark □		
Bookmark □	Question No 72	4.00
ID atratabing frequency range of N L hand is?	ID stratabing frequency range of N. H. hand is 2	

ık stretching irequency range of in-in bond is €	
© 2500 - 3300	
0 3300 – 3500	
© 2220 – 2260 © 1650 - 1780	
0 1650 - 1760	
Question No.73	4.00
	Bookmark
In p-type semiconductors, number of holes number of electrons. © is double the	
© Greater than	
ℂ is Equal to	
○ Less than	
Question No.74	4.00 Bookmark □
If A is 3 x 3 Non-singular matrix such that $AA^T = A^TA$ and $B = A^{-1}A^T$, then BB^T is equal to	вооктагк [
O I+B	
01	
О B-1	
○ (B ⁻¹) ^T	V
Question No.75	4.00
Example for piezo-electric material	Bookmark
© Rochelle salt	
© Barium Titanium oxide	
C Lead zirconate	
© Potassium niobate	
Question No.76	4.00
Question No.76	4.00 Bookmark ┌
Faster among the waves and rays is	
© Both have no speed	
○ Rays	
© Both have same speed	
© Waves	
Question No.77	4.00 Bookmark □
	DOOKINAIK [
. Using Newton-Raphson method, find a root correct to three	
desimal places of the equation $u^3 = 2u = \Gamma = 0$	
decimal places of the equation $x^3 - 3x - 5 = 0$ © 2.222	
0 2.275	
0 2.272	
ℂ 2.279	
Question No.78	4.00 Bookmark ☐
Choose the best synonym of the italicized word.	
Dr. Elango is in the habit of using <i>obsolete</i> words.	
O difficult	
O outdated	
© simple © wrong	
~ mong	

Question No.79 4.00
Bookmark The proof eating site of protein synthesis is the
The most active site of protein synthesis is the ○ Cell sap
© Ribosome
© Mitochondrion
© Nucleus
Question No.80 4.00
Bookmark 🗆
Assume that a particle of mass 'm' is confined to a cubic box and its energy is 14h ² /8ma ² . What is the degeneracy of this level?
O 8
0 2
C 6
Question No.81 4.00
Study the following information carefully and answer the question below it
The Director of an MBA college has decided that six guest lectures on the topics of Motivation, Decision Making,
Quality Circle, Assessment Centre, Leadership and Group Discussion are to be organised on each day from Monday to
Sunday. (i) One day there will be no lecture (Setunday is not that day) just before that day Crown Discussion will be excepted.
(i) One day there will be no lecture (Saturday is not that day), just before that day Group Discussion will be organised. (ii) Motivation should be organised immediately after Assessment Centre.
(iii) Quality Circle should be organised on Wednesday and should not be followed by Group Discussion
(iv) Decision Making should be organised on Friday and there should be a gap of two days between Leadership and Group Discussion
Group Discussion
Which of the following information is not required for the above lecture arrangements?
Only (i)
Only (ii)
© Only (iii)
C All are required
Question No.82 4.00 Bookmark
Choose the best synonym of the italicized word.
Children of excessively indulgent parents often become very recalcitrant.
C dependent
○ indolent
© insolent
© disobedient
Question No.83 4.00
Bookmark □
Solenoid of length 15 cm has 300 turns. If current flowing through solenoid is 5A, magnetic field inside solenoid will be
© 1.3X102
C 2.3X102
C 2.3X103
C 1.3X103

Question No.84 4.00

	Bookmark □
Isoelectric pH is that pH at which protein is electrically:	
O Neutral	
© Anionic	
© Cationic	
O None of these	
Question No.85	4.00
Haita fan alaghrig fald atus matta	Bookmark □
Units for electric field strength O V/cm	
^C A/cm ²	
[©] cm ² /V.s	
○ mho/meter	
Question No.86	4.00
	Bookmark
Calculate the entropy of mixing of 1 mole of oxygen gas and 2 moles of hydrogen gas, assuming that no cher reaction occurs and the gas mixture behaves ideally.	nicai
© 14.8 JK-1	
O 17 JK-1	
	M
O 15.8 JK-1	
O 16 JK-1	
Question No.87	4.00
Question No.07	Bookmark
Insulin is made up of	DOORINGIN _
C A-chain having 21 and B-chain having 30 amino acid residues	
C A single polypeptide chain having 51 aminoacid residues	
C A single polypeptide chain having 84 amino acid	
A-chain having 30 and B-chain having 21 amino acid residues	
7 Chairmaving Co and B Chairmaving 21 anning add 100 add	
Question No.88	4.00
	Bookmark □
Metals can transmit these	
C x-rays	
© Microwaves	
○ Visible light	
© Radio ways	
Question No.89	4.00
	Bookmark □
Study the following information carefully and answer the question below it	

Lakshman passes through seven lanes to reach his school. He finds that 'Truth lane' is between his house and 'Lie

lane'. The third lane from his school is 'Karma lane'. 'Dharma lane' is immediately before the 'Yog lane'. He passes 'Salvation lane' at the end, 'Lie lane' is between 'Truth lane' and 'Dharma lane', the sixth lane from his house is 'Devotion lane'.	
If Lakshman's house, each lane and his school are equidistant and he takes 2 minutes to pass one lane, then how long will he take to reach school from his house? © 14 minutes	
© 16 minutes	
O 13 minutes	
C 15 minutes	
Question No.90 4.	00
Bookmark [
Given that, $E^0_{Cu+/Cu} = 0.15 \text{ V}$; $E^0_{Cu2+/Cu+} = 0.50 \text{ V}$ find the value of	
E ⁰ Cu2+/Cu	
O -0.215 V	
O 0.215 V	
○ -0.325 V	
© 0.325 V	
	00
Ceramics can conduct	
© Conduct heat and electricity	
○ Heat	
o do not conduct heat and electricity	
© Electricity	
Question No.92 Bookmark	00
Bookmark When their father died, their elder brother sold the old house and in a small flat in a far-off suburb	
Bookmark When their father died, their elder brother sold the old house and in a small flat in a far-off suburb set them up	
When their father died, their elder brother sold the old house and in a small flat in a far-off suburb o set them up put them down	
When their father died, their elder brother sold the old house and in a small flat in a far-off suburb o set them up put them down set them down	
When their father died, their elder brother sold the old house and in a small flat in a far-off suburb o set them up put them down	
When their father died, their elder brother sold the old house and in a small flat in a far-off suburb o set them up put them down put them up Question No.93	00
When their father died, their elder brother sold the old house and in a small flat in a far-off suburb o set them up put them down set them down put them up	00
When their father died, their elder brother sold the old house and in a small flat in a far-off suburb o set them up put them down put them up Question No.93 4.6 Bookmark	00
When their father died, their elder brother sold the old house and in a small flat in a far-off suburb C set them up D put them down D put them up Question No.93 According to faraday's law "EMF" stands for D Electromagnetic friction D Electromotive force	00
When their father died, their elder brother sold the old house and in a small flat in a far-off suburb set them up put them down put them up Question No.93 According to faraday's law "EMF" stands for Electromagnetic friction Electromagnetic field	00
When their father died, their elder brother sold the old house and in a small flat in a far-off suburb C set them up D put them down D put them up Question No.93 According to faraday's law "EMF" stands for Electromagnetic friction Electromotive force	00
When their father died, their elder brother sold the old house and in a small flat in a far-off suburb set them up put them down put them up Question No.93 According to faraday's law "EMF" stands for Electromagnetic friction Electromagnetic field	00
When their father died, their elder brother sold the old house and in a small flat in a far-off suburb set them up put them down put them up Question No.93 According to faraday's law "EMF" stands for Electromagnetic friction Electromagnetic field	00
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Bookmark □

Question No.95	4.00 Bookmark
$(\partial U/\partial P)_S = ?$	
^C (∂V/∂S) _P	
C -(dP/dT)s	
° -(∂V/∂S) _P	
C (OP/OT)s	
Question No.96	4.00
Which one of the following is ferro-electric material?	Bookmark □
C Potassium niobate	
 ○ Quartz ○ Lead titanate 	
© Lead titaliate	
Question No.97 Record on the information given answer the following question	4.00 Bookmark ▽
Based on the information given answer the following question. 1. In a family of six persons, there are people from three generations. Each has separate professions and the	y like
different colours. There are two couples. 2. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour.	
Chartered Accountant likes green colour and his wife is a teacher. Manisha is the mother-in-law of Sunita and she likes orange colour.	
5. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour.6. Nyna is the grand daughter of Manisha and she likes blue colour. Nyna's Mother likes white colour.	
What is the profession of Sunita?	
© Teacher © Principal	
Chartered Accountant	
Cannot be determined	
Question No.98	4.00
	Bookmark
Choose the best antonym of the italicized word. The deliberate suavity of Olaf's behavior made the emotions of the audience volatile.	
○ politeness	
o impetuosity	
pleasantnessstupidity	
© stupidity	
Question No.99	4.00
Select the Pair that best respresents the relationship that is given in the question:	Bookmark □
Explore : Discover	
Think: RelateTree: Wood	
© Tree : wood © Research : Learn	
© Books : Knowledge	
Question No.100	4.00

The transport number of cation is 0.45: calculate the transport number of anion.

- O 0.45
- 0 0.55
- C -0.45
- O 0.55

