Sr No.	MTech Green Energy Technology
1	Find the missing term in the following series:
	3,15,?,63,99,143?
Alt1	27
Alt2	35
Alt3	45
Alt4	56
_	
2	Choose word from the given options which bears the same relationship to the third word, as the first two bears: Horse: Jockey:: Car:?
Alt1	Mechanic
Alt2	Chauffeur
Alt3	Steering
Alt4	Brake
3	Food is to Fad as Religion is to?
Alt1	Crucification
Alt2	Notion
Alt3	Superstition
Alt4	Mythology
4	Select the lettered pair that has the same relationship as the original pair of words:
	Fond: Doting
	Solicitous: Concern
	Verbose: Wordiness
	Flurry: Blizzard
Alt4	Magnificent: Grandiose
-	Which of the fellowing is the same as Emperaimete Free Rolesco?
	Which of the following is the same as Emancipate, Free, Release? Liberate
	Quit
	Pardon
	Ignore
AICT	1011010
6	Spot the defective segment from the following:
	I met one of the mountaineers
	that have returned
	to their base camp
	the last week
<u>- </u>	
7	Choose the meaning of the idiom/phrase from among the options given:
	To call names
Alt1	to abuse
Alt2	to recall something
Alt3	to count the prisoners
Alt4	to take attendance

	Our tour programme fell because of inclement weather.
Alt1	through
Alt2	off
Alt3	out
Alt4	down
9	Choose the option closest in meaning to the given word:
	POIGNANT
Alt1	unbearable
	maximal
	pathetic
	sharp
7110-1	Sharp -
10	Choose the antonymous option you consider the best:
	WANTON
	rational
	abstemious
	dearth
Alt4	deliberate
11	
	and O are opposite each other
	ii. K is to the right of M
	iii. L and K are opposite each other
	iv. N is to the left of P
	Who is to the left of L?
Alt1	Р
Alt2	M
Alt3	
Alt4	
12	Study the following table carefully to answer the questions that follow (15 to 17): Total number of employees
	in different departments in an organisation and (of these) percentage of females and males
	Department Total number of employees Percentage of female employees Percentage of male employees
	IT 840 45 55
	Accounts 220 35 65
	Production 900 23 77
	HR 360 65 35
	Marketing 450 44 56
	Customer Service 540 40 60
	What is the total number of male employees in the IT and Customer Service departments put together?
	what is the total humber of male employees in the H and customer service departments put together:
A 1. 4	115
Alt1	
Alt2	/86

Alt3	768
Alt4	
AIL4	03
	Study the following table carefully to answer the questions that follow (15 to 17): Total number of employees in different departments in an organisation and (of these) percentage of females and males Department Total number of employees Percentage of female employees Percentage of male employees IT 840 45 55 Accounts 220 35 65 Production 900 23 77 HR 360 65 35 Marketing 450 44 56 Customer Service 540 40 60 What is the total number of employees in all departments put together?
Alt1	3260
Alt2	
Alt3	
Alt4	
14	Select the alternative that logically follows from the two given statements, but not from one statement alone: All Cats are dogs No dogs are rats
Alt1	All cats are rats
Alt2	Some cats are rats
Alt3	No cat is rat
Alt4	None of the above
_	
15	In a certain code language, "When did you come" is written as 'ti na ki ja'. "Will you come again" is written as 'na pa sa ja' and "She will go" is written as 'pa da ra'. How is "again" written in that code language?
Alt1	Na
Alt2	
Alt3	
Alt4	da
	In each of the following questions some statements are followed by two conclusions (i) and (ii). Read the statements carefully and then decide which of the conclsions follow beyond a reasonable doubt. Mark your answer as Statement: The aspirants should apply through a proper channel for permission Conclusions: (i) Those who apply through proper channel will get permission (ii) Those who do not apply through proper channel will not get permission
Alt1	If only conclusion (i) follows

Alt2	If only conclusion (ii) follows
Alt3	If neither conclusion (i) nor (ii) follows
Alt4	If both the conclusions follow
17	The average height of 3 children is 115 cms. If the heights of 2 children are 117 cms. And 112 cms.
	Respectively, the height of the third child is
Alt1	112 cms.
	113 cms.
	115 cms.
	116 cms.
Ait	110 (1113.
10	What is the 200/ of 400/ of 2/5th of 50002
	What is the 30% of 40% of 2/5th of 5000?
Alt1	
Alt2	
Alt3	
Alt4	720
19	There are n persons in a room. Each one is shaking hand with the other. Ultimately there are 66 hand-shakes.
	Then n=
Alt1	11
Alt2	12
Alt3	16
Alt4	33
20	A problem is given to students
	10 students choose option A ;
	6 students choose option B ;
	2 students choose option C;
	Gopal choose option D;
	5 students did not answer.
	which option is correct if the teacher tells that One-Twelth of the class gave the correct answer.
Alt1	
Alt2	
Alt3	
Alt4	D
	Which one is used in industrial fermentation to produce beverages?
	Bacteria
Alt2	Yeast
Alt3	Microalgae
Alt4	Vitamins
22	Number of hydrogen and phosphodiester bonds found in this hypothetical DNA 5' AGCTCGTAGCTACGTGAC 3'
	strand?
Alt1	24 and 18
	46 and 34

Alt3	23 and 17
Alt4	48 and 36
23	Allergens are?
	Interferons
	Lectin compounds
	Non-parasitic antigens
Alt4	Fungal antigens
24	Cellobiose is
Alt1	Monosaccharide
Alt2	Disaccharide
Alt3	Polysaccharide
Alt4	Polymer of glucose and mannose
<u> </u>	
25	Glycolis is the process
	Fermentive
	Aerobic
	Anaerobic
Alt4	Both A and B
26	Chlorophyll molecule contains ion in its structure
Alt1	Mg3+
Alt2	Mg2+
	Ca2+
	Fe2+
7 110 1	
27	Water use efficiency is minimum in
	CAM plants
	C3 plants
	C4 plants
Alt4	All higher plants
28	All amino acid except are specified by more than one codon
	Arginine and Tryptophan
	Tryptophan and Methionine
	Methionone and Arginine
	Methionine and Threonine
AIL4	mediforme and infedime
20	The independent process of plant migrate interesting in Association in Association is
	The independent process of plant microbe interaction in Agrobacterium infection is
	Induction of Vir genes
	T-DNA integration
Alt3	Produc on of phenolics
Alt4	All the above
30	The molecule which has the highest percentage of ionic character among the following is
Alt1	

Alt2	
Alt3	
Alt4	HBr
	Dimerisation of cyclopentadiene is an example of
	Friedel–Crafts reaction
	Chain reaction
	Condensation Polymerisation
Alt4	Diels Alder reaction
	Density of water is
	1 g/cm3
	10 g/cm3
	100 /cm3
Alt4	1000 g/cm3
	Zeta potential is related to
Alt1	Galvanic corrosion
	Surface charge
	Electrophoretic effect
Alt4	Bio molecular reaction
	Indicator used in redox titration is
Alt1	Eriochrome black T
Alt2	Methyl orange
	Phenolphthalein
Alt4	Methylene blue
	Water is a good solvent of ionic salts because
Alt1	It has a high specific heat
	It has no colour
Alt3	It has a high dipole moment
Alt4	It has a high boiling point
	The heat energy produced when the human body metabolises 1 gram of fat is
	30 KJ
	1 KJ
	39 KJ
Alt4	29 КЈ
	What are the number of moles of CO2 which contains 16 g of oxygen?
	0.5 mole
	0.2 mole
	0.4 mole
Alt4	0.25 mole
38	The iron ore magnetite consists of

Alt1	Fe2O3
Alt2	Fe3OH4
Alt3	FeCO3
Alt4	3Fe2O3 & 3H2O
39	Steel is more elastic than Rubber because
Alt1	Its density is high
	It is a metal
Alt3	Ratio of stress to strain is more
	Ratio of stress to strain is less
40	Plants that grow in saline water are called
	Halophytes
-	Hydrophytes
	Mesophytes
-	Thallophytes
41	The inherited traits of an organism are controlled by
	RNA molecules
	Nucleotides
	DNA molecules
	Enzymes
7	
42	If $x + y = k$, $x > 0$, $y > 0$, then xy is maximum when
	x = ky
-	kx = y
	x = y
	None of these
43	The angle between any two diagonals of a cube is
	$\cos \theta = \sqrt{3/2}$
	$\cos \theta = 1/\sqrt{2}$
-	$\cos \theta = 1/3$
	$\cos \theta = 1/\sqrt{6}$
44	Find the equation of the circle with centre (2, 0) and radius 10 units
	x2+y2-4x-96=0
	x2+y2-x-96=0
	x2+y2+4x-96=0
	x2+y2+4x+96=0
45	Radiocarbon dating technique is used to estimate the age of
	Rocks
	Monuments
Alt3	
-	Fossils
,	1

46	Eigen vector(s) of the matrix
	$\begin{bmatrix} 0 & 0 & \alpha \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
	0 0 0
Alt1	(0,0 ,α)
	(α,0,0)
	(0,0,1)
Alt4	$(0,\alpha,0)$
47	What is the total number of positive integer solutions to the equation $(x1 + x2 + x3) (y1 + y2 + y3 + y4) = 15$?
Alt1	
Alt2	
Alt3	
Alt4	4
48	The formula of the aluminium carbide is
Alt1	Al2C3
Alt2	Al3C4
	Al4C3
Alt4	AIC2
49	During which of the following major mass extinction events, over 95% of the marine species disappeared from
	the planet Earth?
	Ordovician
	Devonian
	Permian Triangia
AIL4	Triassic
50	Oil raise up the wick in a lamp. The principle involves
	The diffusion of oil through the wick
	The liquid state of oil
Alt3	Capillary action phenomenon
	Volatility of oil
Alt4 51	One ton refrigeration corresponds to
Alt4 51 Alt1	50 kcal/ min
Alt4 51 Alt1 Alt2	50 kcal/ min 50 kcal/ hr
51 Alt1 Alt2 Alt3	50 kcal/ min

Alt1	Lower than atmospheric pressure
Alt2	Higher than atmospheric pressure
Alt3	Equal to atmospheric pressure
Alt4	Could be anything
53	The number of d-electrons in Fe2+ (Z = 26) is not equal to that of
Alt1	p-electrons in Ne (Z = 10)
Alt2	s-electrons in Mg (Z = 12)
Alt3	d-electrons in Fe (Z = 26)
Alt4	p-electrons in CI (Z = 17)
54	Nowadays many novel chemicals are being synthesized termed as xenobiotics. The unique feature of these is
	what they are
	I. Biodegradable
	II. Non-biodegradable
	III. Pose on environmental threat
	IV. They are environment friendly
Alt1	
	, ,
-	I, III, IV
	II, III, IV
7 110 1	
55	The main buffer system of the human blood is
	H2CO3 - HCO3
Alt2	H2CO3 - CO32-
Alt3	CH3COOH - CH3COO-
Alt4	NH2CONH2 - NH2CONH+
56	Serum has essentially the same composition as plasma EXCEPT that it lacks
	Albumin
Alt2	Stuart-Power factor
Alt3	Antihemophilic factor
Alt4	Hageman factor
	Consider the operator $a = x + d/dx$ acting on smooth functions of x. The commutator $[a, \cos x]$ is
	- sin x
	- COS X
	cos x
Alt4	ال
58	The dynamics of a particle governed by the Lagrangian L= ½ mx2 – ½ kx2 – kxxt describes
	an undamped simple harmonic oscillator
	a damped harmonic oscillator with a time varying damping factor
	an undamped harmonic oscillator with a time dependent frequency
	a free particle
	<u> </u>

	The 2 x 2 identity matrix I and the Pauli matrices σx , σy , σz do not form a group under matrix multiplication. T minimum numbers of 2 x 2 matrices, which includes these four matrices, and form a group (under matrix
	multiplication) is
Alt1	
Alt2	
Alt3	
Alt4	
60	The first ionization potential of K is 4.34 eV, the electron affinity of Cl is 3.82 eV and the equilibrium separatio
	of KCl is 0.3 nm. The energy required to dissociate a KCl molecule into a K and a Cl atom is
Alt1	8.62 eV
Alt2	8.16 eV
Alt3	4.28 eV
Alt4	4.14 eV
61	The period of 2 sin x cos x is
	4π 2
Alt2	
Alt3	
Alt4	
AIL4	jn en
62	Let A $(2, -3)$ and B $(-2, 1)$ be vertices of a triangle ABC. If the centroid of this triangle moves on the line $2x + 3y$
02	
	In then the locus of the vertex C is the line
Λl+1	1, then the locus of the vertex C is the line
	2x + 3y = 9
Alt2	2x + 3y = 9 2x - 3y = 7
Alt2 Alt3	2x + 3y = 9 2x - 3y = 7 3x + 2y = 5
Alt2 Alt3	2x + 3y = 9 2x - 3y = 7
Alt2 Alt3 Alt4	2x + 3y = 9 2x - 3y = 7 3x + 2y = 5 3x - 2y = 3
Alt2 Alt3 Alt4	2x + 3y = 9 $2x - 3y = 7$ $3x + 2y = 5$ $3x - 2y = 3$ If x dy/dx = y (log y - log x + 1), then the solution of the equation is
Alt2 Alt3 Alt4 63 Alt1	$2x + 3y = 9$ $2x - 3y = 7$ $3x + 2y = 5$ $3x - 2y = 3$ If $x \frac{dy}{dx} = y (\log y - \log x + 1)$, then the solution of the equation is $y \log(x/y) = cx$
Alt2 Alt3 Alt4 63 Alt1 Alt2	$2x + 3y = 9$ $2x - 3y = 7$ $3x + 2y = 5$ $3x - 2y = 3$ If $x dy/dx = y$ (log $y - \log x + 1$), then the solution of the equation is $y \log(x/y) = cx$ $x \log(y/x) = cy$
Alt2 Alt3 Alt4 63 Alt1 Alt2 Alt3	$2x + 3y = 9$ $2x - 3y = 7$ $3x + 2y = 5$ $3x - 2y = 3$ If $x \frac{dy}{dx} = y (\log y - \log x + 1)$, then the solution of the equation is $y \log(x/y) = cx$
Alt2 Alt3 Alt4 63 Alt1 Alt2 Alt3 Alt4	$2x + 3y = 9$ $2x - 3y = 7$ $3x + 2y = 5$ $3x - 2y = 3$ If $x \text{ dy/dx} = y \text{ (log } y - \log x + 1)$, then the solution of the equation is $y \log(x/y) = cx$ $x \log(y/x) = cy$ $\log(y/x) = cx$ $\log(y/x) = cx$ $\log(x/y) = cy$
Alt2 Alt3 Alt4 63 Alt1 Alt2 Alt3 Alt4	$2x + 3y = 9$ $2x - 3y = 7$ $3x + 2y = 5$ $3x - 2y = 3$ If $x \text{ dy/dx} = y$ (log $y - \log x + 1$), then the solution of the equation is $y \log(x/y) = cx$ $x \log(y/x) = cy$ $\log(y/x) = cx$ $\log(y/x) = cx$ $\log(x/y) = cy$
Alt2 Alt3 Alt4 63 Alt1 Alt2 Alt3 Alt4 64 Alt1	$2x + 3y = 9$ $2x - 3y = 7$ $3x + 2y = 5$ $3x - 2y = 3$ If $x dy/dx = y$ (log $y - \log x + 1$), then the solution of the equation is $y \log(x/y) = cx$ $x \log(y/x) = cy$ $\log(y/x) = cx$ $\log(x/y) = cy$ $\log(x/y) = cy$
Alt2 Alt3 Alt4 63 Alt1 Alt2 Alt3 Alt4 64 Alt1 Alt2	$2x + 3y = 9$ $2x - 3y = 7$ $3x + 2y = 5$ $3x - 2y = 3$ If $x \text{ dy/dx} = y \text{ (log } y - \log x + 1)$, then the solution of the equation is $y \log(x/y) = cx$ $x \log(y/x) = cy$ $\log(y/x) = cx$ $\log(x/y) = cy$ $\log(x/y) = cy$
Alt2 Alt3 Alt4 63 Alt1 Alt2 Alt3 Alt4 64 Alt1 Alt2 Alt3	$2x + 3y = 9$ $2x - 3y = 7$ $3x + 2y = 5$ $3x - 2y = 3$ If $x dy/dx = y$ (log $y - \log x + 1$), then the solution of the equation is $y \log(x/y) = cx$ $x \log(y/x) = cy$ $\log(y/x) = cx$ $\log(x/y) = cy$ $\log(x/y) = cy$ $\int cosx$ $tanx$ $secx$ $sinx$
Alt2 Alt3 Alt4 63 Alt1 Alt2 Alt3 Alt4 64 Alt1 Alt2 Alt3	$2x + 3y = 9$ $2x - 3y = 7$ $3x + 2y = 5$ $3x - 2y = 3$ If $x \text{ dy/dx} = y \text{ (log } y - \log x + 1)$, then the solution of the equation is $y \log(x/y) = cx$ $x \log(y/x) = cy$ $\log(y/x) = cx$ $\log(x/y) = cy$ $\log(x/y) = cy$
Alt2 Alt3 Alt4 63 Alt1 Alt2 Alt3 Alt4 64 Alt1 Alt2 Alt3 Alt4	$2x + 3y = 9$ $2x - 3y = 7$ $3x + 2y = 5$ $3x - 2y = 3$ If $x \text{ dy/dx} = y \text{ (log } y - \log x + 1)$, then the solution of the equation is $y \log(x/y) = cx$ $x \log(y/x) = cy$ $\log(y/x) = cx$ $\log(y/x) = cy$ $\log(x/y) = cy$ $\int \cos x$ $\tan x$ $\sec x$ $\sin x$ $-\sin x$
Alt2 Alt3 Alt4 63 Alt1 Alt2 Alt3 Alt4 64 Alt1 Alt2 Alt3 Alt4	$2x + 3y = 9$ $2x - 3y = 7$ $3x + 2y = 5$ $3x - 2y = 3$ If $x dy/dx = y$ (log $y - \log x + 1$), then the solution of the equation is $y \log(x/y) = cx$ $x \log(y/x) = cy$ $\log(y/x) = cx$ $\log(x/y) = cy$ $\log(x/y) = cy$ $\int cosx$ $tanx$ $secx$ $sinx$
Alt2 Alt3 Alt4 63 Alt1 Alt2 Alt3 Alt4 64 Alt1 Alt2 Alt3 Alt4 65	2x + 3y = 9 2x - 3y = 7 3x + 2y = 5 3x - 2y = 3 If x dy/dx = y (log y - log x + 1), then the solution of the equation is y log(x/y) = cx x log(y/x) = cy log(y/x) = cx log(x/y) = cy ∫ cosx tanx secx sinx -sinx A circle touches the x-axis and also touches the circle with centre at (0, 3) and radius 2. The locus of the centre
Alt2 Alt3 Alt4 63 Alt1 Alt2 Alt3 Alt4 64 Alt1 Alt2 Alt3 Alt4 65 Alt1	$2x + 3y = 9$ $2x - 3y = 7$ $3x + 2y = 5$ $3x - 2y = 3$ If $x \text{ dy/dx} = y \text{ (log } y - \log x + 1)$, then the solution of the equation is $y \log(x/y) = cx$ $x \log(y/x) = cy$ $\log(y/x) = cx$ $\log(x/y) = cy$ $\int cosx$ $tanx$ $secx$ $sinx$ $-sinx$ A circle touches the x-axis and also touches the circle with centre at (0, 3) and radius 2. The locus of the centro of the circle is
Alt2 Alt3 Alt4 63 Alt1 Alt2 Alt3 Alt4 64 Alt1 Alt2 Alt3 Alt4 65 Alt1 Alt2	2x + 3y = 9 2x - 3y = 7 3x + 2y = 5 3x - 2y = 3 If x dy/dx = y (log y - log x + 1), then the solution of the equation is y log(x/y) = cx x log(y/x) = cx log(y/x) = cx log(y/x) = cy ∫ cosx tanx secx sinxsinx A circle touches the x-axis and also touches the circle with centre at (0, 3) and radius 2. The locus of the centr of the circle is an ellipse

66	What is the value of factorial Zero (0!)
Alt1	10
Alt2	0
Alt3	1
Alt4	-1
67	Young's Modulus of material of a wire is defined as
	Ratio of linear strain to normal stress
—	Ratio of normal stress to linear strain
Alt3	Product of linear strain to normal stress
	Square root of the ratio between normal stress and linear strain
68	When light wave suffers reflection at the interface between air and glass, the change of phase of the reflected
	wave is equal to
Alt1	
Alt2	
Alt3	
Alt3	
AIL4	ZIL
<u> </u>	Assauding to Chaulas Law
	According to Charles Law
	PV = Constant
	P/V = (-) K
	V/T = Constant
Alt4	VT = K0
70	The resistance of a wire is R ohm. If the wire is stretched to double its length, its resistance will become?
Alt1	20
Alt2	
Alt3	
Alt4	4K
	Optical fiber works on the
	principle of refraction
	total internal reflection
	scattering
Alt4	interference
_	Heat transfer takes place according to
	Zeroth law of thermodynamics
	First law of thermodynamics
	Second law of thermodynamics
Alt4	Kirchoff's law
	The 'Greenhouse effect' in atmosphere is mainly due to increase in atomospheric
Alt1	Ozone

Alt2	Nitrogen
Alt3	Carbon dioxide
Alt4	Carbon monoxide
74	Algal bloom results in
Alt1	Global warming
Alt2	Salination
Alt3	Eutrophication
	Biomagnification
75	A high biological oxygen demand (BOD) indicates that
	water is pure
	absence of microbial action
	low level of microbial pollution
	high level of microbial pollution
76	What is the maximum number of phases that can be at equilibrium with each other in a three-component
	mixture?
Alt1	
Alt2	
Alt3	
Alt4	
AIL4	<u> </u>
77	Which of the following is always true of a spontaneous process?
	The process is exothermic
	The process does not involve any work
	The entropy of the system increases
	The total entropy of the system plus surroundings increases
AIL4	The total entropy of the system plus surroundings increases
70	lufured (ID) are stored as in the determining the contains are of the stored as a second and a second
	Infrared (IR) spectroscopy is useful for determining the certain aspects of the structure of organic molecules
	because
	all molecular bonds absorb IR radiation
	IR peak intensities are related to molecular mass
-	most organic functional groups absorb in a characteristic region of the IR spectrum
Alt4	each element absorbs at a characteristic wavelength
79	Assuming complete dissociation, of the following solutions which will have the highest ionic strength?
	0.050 M AICI3
	0.100 M NaCl
-	0.050 M CaCl2
Alt4	0.100 M HCl
80	Cobalt – 60 is used in a radiation therapy of cancer and can be produced by bombardment of Cobalt – 59 with
	which of the following?
Alt1	Neutrons
Alt2	Alpha particles

	Beta particles
Alt4	X – rays
81	Which of the following observations were explained by Planck's quantum theory?
Alt1	Blackbody radiation
Alt2	Emission spectra of diatomic molecules
Alt3	Electron diffraction patterns
Alt4	Temperature dependence of reaction rates
82	Which of the following is an n-type semiconductor?
	Silicon
Alt2	Diamond
-	Silicon carbide
	Arsenic-doped silicon
7.11.0-1	
83	Of the following compounds, which is LEAST likely to behave as a Lewis acid?
	BeCl2
	MgCl2
	ZnCl2
AIT4	SCI2
0.4	
	The strongest base in liquid ammonia is
	NH3
	NH2-
	NH4+
Alt4	N2H4
	Which of the following is required for both paramagnetism and ferromagnetism?
	Strong oxidizing conditions
Alt2	Low-spin electron configuration
Alt3	Metallic physical properties
Alt4	Unpaired electrons
86	Of the following atoms, which has the lowest electron affinity?
Alt1	F
Alt2	Si
Alt3	0
Alt4	Ca
87	Which of the following is a primary standard for use in standardizing bases?
	Ammonium hydroxide
	Potassium hydrogen phthalate
	Acetic acid
	Sulfuric acid
7 11 0-7	,
QΩ	Formation of ozone is
	oxidation reaction
Ait1	UNIUGLIUII TEGUIUII

Alt2	reduction reaction
Alt3	photochemical reaction
Alt4	electrochemical reaction
89	Nutrients are recycled in ecosystem by
Alt1	Biogeochemical cycle
Alt2	Energy flow
Alt3	Producers
Alt4	Consumers
90	Driving force in an ecosystem is
_	Plants
	Producers
	Solar energy
	Biomass energy
7 110 1	516111635 CHC181
91	Two coils in differential connection have self inductance of 2mH and 4mH and a mutual inductance of 0.15mH.
	The equivalent inductance of the combination is
	5.7 mH
	5.85 mH
	6 mH
	6.15 mH
AII4	0.13 IIII
02	If an intrinsic semiconductor is doped with a very small amount of Boron, then the extrinsic semiconductor so
	formed, the number of electrons and holes will
	Decrease
	Increase and decrease respectively
	Increase Degrades and increase recognitionly
Alt4	Decrease and increase respectively
0.2	Dhataraltair and af allian aslan all is aftha and a af
	Photovoltaic emf of silicon solar cell is of the order of
	0.1 Volts
	0.5 Volts
	1.1 Volts
Alt4	1.72 Volts
	THE AMOSTET WHILE WE GO AND A SHEET WAS A
	The MOSFET switch in its On-state may be considered equivalent to
	Resistor
	Inductor
	Capacitor
Alt4	Battery
	A memory system has total of 8 memory chips, each with 12 address lines and 4 data lines. The total size of the
	memory system is
	6 kbytes
Alt2	32 kbytes
Alt3	48 kbytes

Alt4	64 kbytes		
0.5			
96	The rank of the following matrix is		
	[123		
	142		
	2 6 5]		
2114			
Alt1			
Alt2			
Alt3			
Alt4	3		
97	Process of generating electric power and useful heat in a single installation is known as		
	Regeneration		
	Cogeneration		
	Total generation		
	Integral production		
L			
98	For a reversible adiabatic process, the change in entropy is		
Alt1	Zero		
Alt2	Minimum		
Alt3	Infinite		
Alt4	Unity		
	In a Carnot engine, when the working fluid gives heat to sink,		
	The temperature of sink increase		
	The temperature of the source decrease		
	The temperature of both source and sink decrease		
Alt4	The temperature of sink remains same		
400			
	Regenerative cycle thermal efficiency of a Rankine cycle		
	Is same as that of simple Rankine cycle		
	Is always less than that of simple Rankine cycle		
	Is always greater than that of simple Rankine cycle		
Ait4	None		