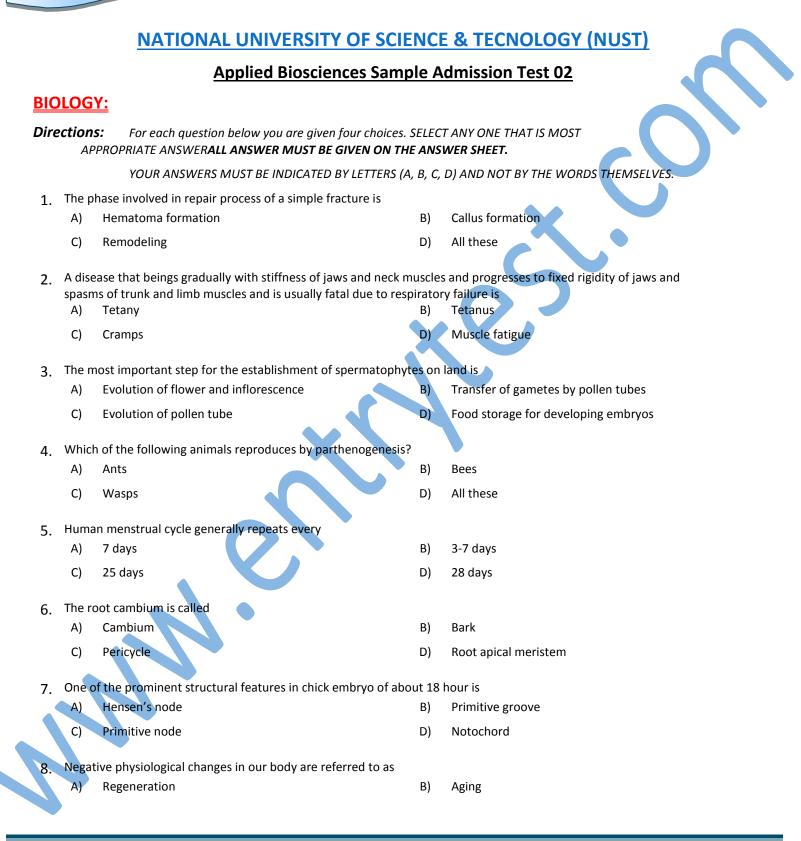


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	C)	Embryonic induction	D)	Differentiation
9.	The se	equence of nucleotides that determines the amino acid seq	uence	e of a protein is called is
5.	A)	Genetic code	B)	Genome
	C)	Gene	D)	Translation
10	A tRN	A molecule possessing complementary three- nucleotide se	equen	ce is called
	A)	A codon	B)	An anticodon
	C)	Genetic code	D)	Sense codon
11	The p	eriod of cell cycle between two consecutive divisions is terr	ned	X
	A)	Interphase	B)	G ₀ - phase
	C)	G ₁ - phase	D)	S – phase
				$\mathbf{\overline{\mathbf{A}}}$
12	Most	critical phase of the mitosis that ensures equal distribution	of ch	
	A)	Prophase	В)	Metaphase
	C)	Anaphase	D)	Telophase
13	The ce	ell swells and bursts releasing intracellular contents during		
	A)	Necrosis	B)	Apoptosis
	C)	Cancer	D)	Both a and b
14	A phy	siological effect of an allele over its partner allele at the sar	ne gei	ne locus is usually referred to as
	A)	Dominance	B)	Incomplete dominance
	C)	Codominance	D)	Over dominance
15	Whick	n of the following blood type is clear of any anti- Rh antiboo	łv?	
13.	A)	Rh – positive	B)	Rh – negative
	C)	Both a and b	D)	None of these
4.0	Conor	s that affect growth rate in humans also influence both wei	aht an	ad beight Such a gone with multiple phonotypic
16		is called	giit ai	in height such a gene with multiple phenotypic
	A)	Epistatic	B)	Apoptotic
	C)	Pleiotropic	D)	Continuously varying
17	SRY g	ene is an example of		
	A)	X – linked gene	B)	Y – linked gene
	C)	Sex – linked trait	D)	X – and Y linked genes
18	A mea	ans by which recombinant DNA is introduced into a host cel	ll is	

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	A)	Plasmid	B)	Vector
	C)	Prion	D)	Virion
19	Which	of the following is a powerful tool of forensic science?		
15	A)	DNA Test	B)	DNA fingerprints
	C)	Gene sequencing	D)	Polymerase chain reaction
20	Cocon	ut milk contains which of the followings.		
20	A)	Auxins	B)	Gibberellin
	C)	Cytokinin	D)	Ethylene
21	The sm	nallest biological unit that can evolve over time is		
21	A)	An organism	B)	A species
	C)	A population	D)	An ecosystem
22	The fre	equencies of genotypes of non- evolving populations can b	e desc	
	A)	Mendel's law of independent assortment	B)	Hard Weinberg's theorem
	C)	Neo – Darwinism	D)	Theory of Nutrual Selection
23	The po	opulations can be described in terms of		
	A)	Members	B)	Growth rate
	C)	Age distribution	D)	All these
24	One of	f the followings are responsible for releasing chemical elen	nents a	as ions into the environment
	A)	Producers	B)	Consumers
	C)	Decomposers	D)	Heterotrophs
25	An ass	ociation between an host and a parasite that proves food.	Prote	ction and conditions for survival to a parasite is
23	A)	Symbiosis	B)	Parasitism
	C)	Mutualism	D)	Commensalisms
26	Which	of the following is principal stages in nitrogen cycle?		
20	A)	Ammonification	B)	Nitrification
			-	All those
	C)	Assimilation	D)	All these
	C)	Assimilation	D)	All these
27		Assimilation e fungi can be found in a lake?	D)	All these
27			D) B)	Limnetic zone

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28	Which deser	n of the following ecosystems occurs in regions where mean t?	n annı	ual rainfall is midway between forest and a
	A)	Tundra	B)	Taiga
	C)	Grassland	D)	Boreal
29		ample of a human population's exceeding the carrying capa cosystem is	acity c	of the land that resulted in loss of productivity of
	A)	Sahel	B)	Sahara
	C)	Thar	D)	Thal
30	Which	n of the followings is termed environmental buffer?		
	A)	Trees	B)	Forests
	C)	Deserts	D)	Grasslands
				\mathbf{O}
31	A stru	cture within a cell that performs a specific function is a (an)	
	A)	Macromolecule	B)	Organ
	C)	Organelle	D)	Organ system
32	Very s	similar potentially interbreeding organisms are		
-	A)	Organisms	B)	Species
	C)	Population	D)	Community
33	Which	n of the following is main source of energy in cells?		
	A)	Carbohydrates	B)	Proteins
	C)	Lipids	D)	Nucleic acids
34	An act	tivated enzyme consisting of polypeptide chain and a cofac	tor is	known as
5.	A)	Apoenzyme	B)	Holoenzyme
	C)	Coenzyme	D)	Activator
35	One o	f the followings are most abundant in plant seedlings		
	A)	Lysosomes	B)	Glyoxysomes
	C)	Peroxisomes	D)	Secondary Lysosomes
36	Durin	g cell division the chromatin material is converted into dark	dy sta	ined thread like structures known as
55	A)	Chromosomes	, В)	Chromatids
	C)	Centromere	D)	Centrosomes
37	Accun	nulation of lipids in brain cells lead to		

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	A)	Mental retardation	B)	Hepatitis
	C)	Glycogenesis type II	D)	AIDS
38	Hepati	tis is caused by		
	A)	Prion	B)	Virus
	C)	Paramycovirus	D)	Reterovirus
39	The pla	asma membrance an everything present within it is known	as	
	A)	Cytoplasm	B)	Protoplasm
	C)	Protoplast	D)	Karyoplasms
40	The ph	ase during bacterial growth in which bacteria prepare ther	nselve	es for division is
	A)	Lag phase	B)	Log phase
	C)	Stationary phase	D)	Decline phase
<u>CHE</u>	MIST	<u>rry</u>	X	V

Directions: For each question below you are given four choices. SELECT ANY ONE THAT IS MOST APPROPRIATE ANSWER

ALL ANSWER MUST BE GIVEN ON THE ANSWER SHEET.

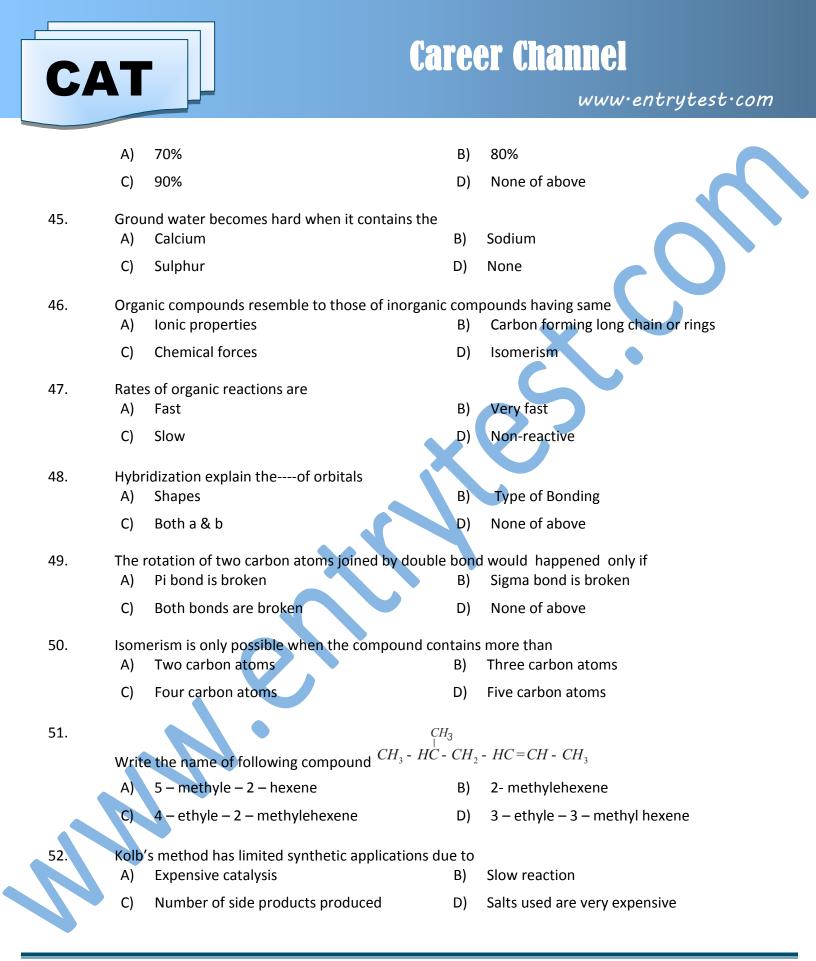
YOUR ANSWERS MUST BE INDICATED BY LETTERS (A, B, C, D) AND NOT

BY THE

WORDS THEMSELVES.

The natural source of CO is 41. **Bacterial** action A) B) Volcanoes C) Automobiles D) Oxidation of CH₄ in the atmosphere 42. The major source of CO in the atmosphere is A) Combustion of fossil fuel B) Motor vehicles (fuel burning) Both a & b C) D) None 43. Which of the following statement about the organic chemical is wrong At high conc. they cause nausea, & At low conc. These compounds become B) A) blindness tasteful They also related with carcinogenic C) D) It also effects the central nervous system The process of coagulation can remove the suspended solids in the raw water more than

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53.	The unreactivity of alkanes is based upon	
	A) Inertness of sigma-bond	B) Non-polarity of the bonds
	C) Both a & b	D) None of above
54.	Complete combustion of alkane yields	
	A) $CO_2 + H_2O$	B) CO ₂ + heat
	C) CO + H ₂ O heat	D) CO ₂ + H ₂ O + heat
55.	The major reaction occurring in the engines	of automobiles is
	A) Oxidation	B) Reduction
	C) Combustion	D) Decomposition
56.	Incomplete oxidation of alkanes yields	
50.	A) CO_2 & carbon black	B) CO ₂ + heat
	C) CO & carbon black	D) CO + heat
57.	Raney – nickel is the alloy of Ni with	
-	A) Pt	B) AI
	C) Cu	D) Pd
58.	Mustard gas is a	
56.	A) Gas	B) High boiling liquid
	C) High melting liquid	D) Steam
59.	During the preparation of alkynes the active	e metals that react with tetra halo-alkanes are
55.	A) Zn	B) Mg
	C) Both a and b	D) None
	C) Both a and b	D) None
60.	The method involved for electrolysis of Na	or K salts of carboxylic acids
	A) Sabatier's sendrens reaction	B) Kolbe's method
	C) Clemmensen	D) Wolf kishner reduction
		,
61.	How many molecules of chlorine adds in be	nzene in the presence of sunlight
	A) One	B) Two
	C) Three	D) Four

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62.	The s [.] A)	tability of aromatic compounds decreases wit Decrease	h B)	in the no. of its resonance structure Increase
	C)	Remain constant	D)	Partially decreases
63.	Whicl	h reaction is too vigorous to control		
	A)	Chlorination	B)	Bromination
	C)	lodination	D)	Fluorination
64.	How the ri	many isomeric disubstituted products are obtang	ained	by the introduction of second group in
	A)	Тwo	B)	Three
	C)	Four	D)	None
65.	The e	lectron releasing effect of methyl group is sigr	nificar	nt and it makes ring a good
	A)	Electrophilic	B)	Nucleophilic
	C)	Nucleophobic	D)	Hydrophobic
66.	Whicl	h one of the following is (m – xylene)		
	A)	1,2 dimethyl benzene	B)	1,3 dimethyl benzene
	C)	1,5 dimethyl benzene	D)	1,4 dimethyl benzene
67.	All ar	e ortho&Para directing except		
	A)	x	B)	ОН
	C)	NR ₃	D)	NH ₂
68.	Whicl	h one does not decolourized KMnO4		
	A)	Alkenes	B)	Alkynes
	C)	Benzene	D)	All above
69.	Durin	g nitration of benzene, the active nitrating age	ent is	
		NO ₂ ⁺	B)	NO ⁺
	C)	NO	D)	HNO ₃
70.	Meta	directing group decreased theof benzend	e ring	
	A)	Physical activity	B)	Chemical reactivity
	C)	Density	D)	None

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PHYSICS:

		YOUR ANSWE	ERS MUST BE IN	DICATED BY LETTERS (/	A, B, C, D) AND N	OT BY THE	WORDS	THEMSELVES.
. \	Vhich o	one of the follo	wing cannot	measure waveleng	gth of X	-rays ir	i any way		
ŀ	A) B	ragg's law	B) D	Diffraction grating	C)	Comp	ton effect D)		Photo electric effect
. \	Vhich d	one of the follo	wing propert	ties is not found in	both so	ound ar	nd light		
ŀ	A) In	terference	B) D	Diffraction	C)	Polari	zation D)	F	Reflection
•	The r	elation betwee	en time perio	d T and angular ve	locity a) is give	en by		
	(a)	Τ = 2 πω	(b)	$T = \omega/2\pi$		(c)	$T = 2\pi / \omega$	(d)	T = v ω
4.	Whe	n a body move	s in a circle, t	he angle between	its linea	ar velo	city v and angular	r veloo	city ω is
	(a)	00	(b)	45 ⁰		(c)	90 ⁰	(d)	180 ⁰
5.	Пrad	dians =							
	(a)	90 ⁰	(b)	1800		(c)	60 ⁰	(d)	30 ⁰
6.	In ra	cing car moving	g along a circ	ular path the frictio	on at th	e whee	els and banking o	f road	s provides the
	(a)	Centripetal Force	(b)	Centripetal Acceleration		(c)	Centre of Mass	(d)	Centrifugal Force
7.	The t	ime period is c	defined as the	e time required to t	traverse		by a revolving bo	ody.	
	(a)	One radian	(b)	180 degrees		(c)	One revolution	(d)	90 degrees
8.	Whi	ch of the follow	wing particles	can induce artifici	al radio	-activi	y in certain nucle	ei?	
	(a)	α -particle	(b)	β -particle	(c) γ-pa	article (d)	All of	the above
		tify the alpha-	particle?						
9.	lden	the alpha							

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80.	Wh	ich of the following pa	rticle	s move with velocity of	light	t?		
	(a)	α -particle	(b)	β -particle	(c)	γ-particle	(d)	All of the above
81.	The	torque on a body will	be z	ero if the angle betweer	n r a	and F is zero or:		
	a.	90 ⁰	b.	180 ⁰	c.	270⁰	d.	None
82.	Wh	at is kinetic energy of	a boo	ly of mass 10 kg moving	with	n velocity 1m/s ² ?)	
	a.	10 Joules	b.	20 Joules	c.	5 Joules	d.	2.5 Joules
83.		_		physical quantities cons				
	a.	Time, temperature,			b.	Force, volume		
	с.	Velocity, acceleratio	n, ma	ISS	d.	Force, accelera	ation,	, velocity
84.		vo forces each of mag Iltant will be	nitud	e 5N act along the same	e line	on a body, then	the r	magnitude of their
	a.	5N	b.	10N	c.	20N	d.	30N
85.	Арр	lied force F on a body	of m	ass m, moving with acce	elera	ation a is		
	a.	m/a	b.	a/m	c.	ma	d.	m : a
<u>ENGLI</u>	<u>SH</u>							
Direct		For each question b ROPRIATE ANSWER	elow	you are given choices. SEL	ECT	ANY ONE THAT IS	MOST	-
<u>SENTE</u>	NCE	<u>COMPLETION</u>						
	letter	ed words or sets of words.	Choo	wo blanks, each blank indicates se the word or set of words the implement in our societ	hat be	est fits the meaning o	of the s	entence as a whole.
	А.	beautician			3.	Writer		
	C.	politician		ſ)	Artisan		
	E.	Model						
87.		on such roma	rke a	ro circulated we can on	ly bl	amo and dosniso	thos	a who produce
07.	VVI		11 N S d	re circulated, we can on	iy DI	anie and despise		

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them.

- A. adulatory
- C. reprehensible

- B. Chance
- D. redundant
- 88. The stereotypical image of masculinity assumes that weeping is ______" unmanly" behaviour, and not simply a human reaction which may be _____ by either sex.
 - A. Inexplicably. repented
 - C. Essentially...defined

B. Excessively...discerned

D. Inherently...adopted

ANALOGY

Direction: Each question below consists of a related pairs of words or phrases, followed by five lettered pairs of words or phrases, Select the lettered pair that best expresses a relationship similar to that expressed in the original pair.

89.FRAGILE : BREAK ::

- (a) vital : destroy
- (b) hostile : invite
- (c) vivid : grow
- (d) flexible : bend
- (e) fertile : smell
- 90.SPOKE : WHEEL ::
 - (a) square : circle
 - (b) balance : lever
 - (c) door : latch
 - (d) book : shelf
 - (e) rung : ladder
- 91.VESSEL : FLEET ::
 - (a) wolf : pack
 - (b) forest : clearing
 - (c) vehicle : truck
 - (d) carriage : horse
 - (e) squadron : rank
- 92.PICADOR : BULL ::
 - (a) heckler : speaker
 - (b) executioner : victim
 - (c) shepherd : sheep
 - (d) singer : song
 - (e) matador : cow
- 93.CORPULENCE : STOUT ::
- (a) baldness : hirsute

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- (b) erudition : learned
- (c) gauntness : beautiful
- (d) steadfastness : mercurial

<u>ANTONYM</u>

Direction: In each of the following antonym questions, a word printed in capital letters precedes five lettered words or phrases. From these five lettered words or phrases, pick the one most nearly <u>opposite</u> in meaning to the capitalized word.

94.	OMNII (A)	POTENT: Weak	(B)	Strong	(C)	Sour	(D)	Safe
95.	OBLIG (A)	ATORY: Friendly	(B)	Optional	(C)	Facile	(D)	Divorced
96.	OBSOL (A)	ETE: Desolate	(B)	Frightful	(C)	Heated	(D)	Renovated
97.	OPTIN (A)	IUM: Minimum	(B)	Chosen	(C)	Worst	(D)	Knowledgeable

READING COMPREHENSION

Direction: Please read the passage below and answer the questions on the basis of what is stated or implied.

Passage:

The Nile is the largest river of the world. Although it farms many falls and cataracts, it is navigable for quite a long distance. Floods in the Nile are caused by heavy summer rains in Ethiopia. The water overflows the banks and spreads over a large area. When it recedes, it leaves behind a thick layer of mud which makes the land rich and fertile.

QUESTIONS

98.	The river Nile is navigable for a long distance because		
	A) It forms cataracts and falls	B)	The cataracts and falls facilitate sailing
	C) There is little obstruction	D)	The river is very wide

	99.	The fertility of the land is caused by									
		A)	Summer rain in Ethiopia	B)	Floods in the river						
		C)	Water spreading over a large area	D)	Slime left by the river						
-											
	100.	"Cat	'Cataract" means								
		A) Whirlpool		B)	Tidal flurry						
		C)	Water fall	D)	Under current						

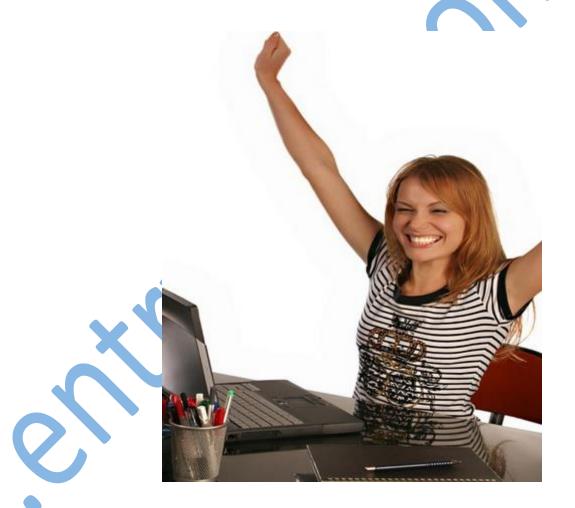
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END OF TEST

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