



BIOLOGY MDCAT

UNIT-10 (A* Series)

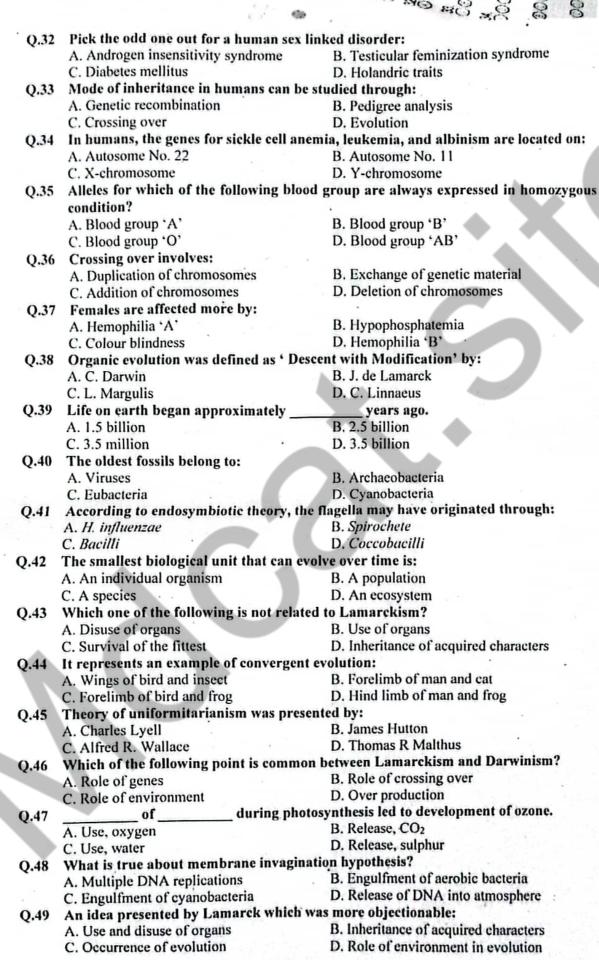
TOP	ICS:			
/	Variations and Genetics/Inhe	ritance		
1	Evolution			
Q.1	Mendel produced	true breeding line/s for seed colour and seed shape.		
	A. 1	B. 2		
	C. 4	D.14		
Q.2	The trait which disappeared in	Fi monohybrid pea plants was named by Mendel as:		
	A. Dominant	B. Recessive		
	C. Co-dominant	D. Incompletely dominant		
Q.3	It is an example of recessive tra			
	A. Round seed shape	B. Yellow pod color		
	C. Purple flower colour	D. Yellow seed color		
Q.4	'Dd' actually represents the:			
•	A. Genotype	B. Genome		
	C. Gene pool	D. Phenotype		
Q.5		Mendel, cross fertilization involved:		
	A. P ₁ x P ₁	$B. F_1 \times F_1$		
	C. F ₁ x F ₂	D. F ₂ x F ₂		
Q.6	Which of the following is a true			
•	A. RRYY x Rryy	B. RrYy x rryy		
	C. RrYY x rrYy	D. rrYY x rrYy		
Q.7		ne represents a pure breeding individual?		
	A. RrYy	B. RRYy		
	C. rrYy	D. RRyy		
Q.8	The number of linkage groups in Pisum sativum is/are:			
	A. 4	B. 7		
	C. 11	D. 14		
Q.9	G. Mendel did not observe:			
	A. Independent assortment	B. Segregation		
	C. Linkage	D. Dominance		
Q.10	A pure tall plant and a pure	dwarf plant were crossed to produce offsprings. If		
	offspring were self-crossed, th	en find the ratio between true breeding tall to true		
	breeding dwarf:			
	A. 1:1	B. 1:2		
	C. 1:3	D. 1:2:1		
Q.11	Back cross involves:			
	A. Crossing between the two par			
	B. Crossing between two F ₁ hybrids			
	C. Crossing between two hybrids			
0.12	D. Crossing between F ₁ hybrid w Most human cells have			
Q.12	A. 3	B. 2		
	C. 4	D. Multiple of 2		
0.12				
Q.13	A. Is an example of multiple alle			
	C. Is an example of crossing ove			
Q.14		up 'A' and 'B' are having a child with blood group O,		
V.14	than what is genotype of his/he			
	A. I^I^	B. I^i		
	C. I ^A I ^B	D. ii		



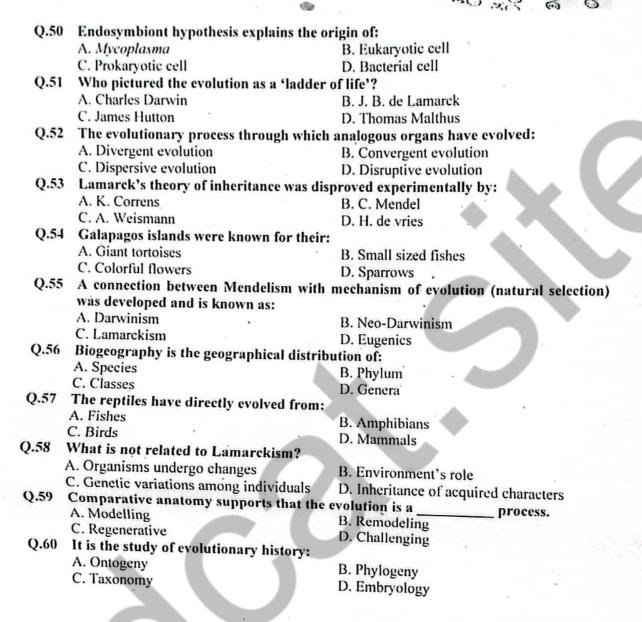


Q.15	ABO blood group is found in:	
Q.13	A. Man	B. Bonobo
	C. Chimpanzee	D. All A, B, C
Q.16	How many alleles of polymorphic gene maximum?	'I' may be found in an individual at the
	A. 1	B. 2
	C. 3	D. 4
Q.17		num number of linkage groups are found in:
	A. Chimpanzee	B. Frog
	C. Man	D. Drosophila
Q.18	Pseudoautosomal genes are found on:	
	A. X-chromosome only	B. Y-chromosome only
	C. Both X and Y-chromosomes	D. Autosomes
Q.19	Anti-A and anti-B antibodies of ABO blo	
	A. Before birth	B. At the time of birth
	C. At puberty	D. After birth
Q.20	If the fetus is Rh+ and mother is Rh- then	
	A. Will transmit antigen to mother's blood	B. Is attacked by antigen to mother's blood
	C. Will transmit antibodies to mother's body	D. Is attacked by antibodies to mother's blood
Q.21		om a cross between AABBCC and aabbcc?
	A. 9	B. 64
	C. 1	D. 16
Q.22	Which of the following option is true for	
	A. Results due to abnormality of factor IX	B. Autosomal recessive
	C. Most abundant	D. Affects men more
Q.23	A holandric gene is expressed in:	D. O. L. L. L.
	A. Males only	B. Only in homozygous form
~ ~ 4	C. Male and female both	D. Both in homozygous or heterozygous form
Q.24	Which is not related to multiple alleles? A. Present all alleles in single individual	B. Present at same locus
	C. Not explained by Mendel	D. Produce due to mutation
Q.25	X-linked recessive traits follow which of	
Q.23	A. Zig-zag pathway	B. Straight pathway
	C. Circular pathway	D. Linear pathway
Q.26	15 unit map distance is equal to	percentage recombination frequency.
Q.20	A.10	B.15
	C.30	D.150
Q.27	Maximum number of multiple allele/s of	ABO blood group found in an egg is/are:
7.7	A. 1	B. 2
	C. 3	D. Multiple
Q.28	In F2 generation, the genotypic ratio is di	fferent than phenotypic ratio in:
	A. Complete dominance	B. Co-dominance
	C. Incomplete dominance	D. Over dominance
Q.29	When true breeding individuals for seed	shape and seed color breed, they produce
		genotype/s in Fi generation,
	respectively.	
	A. 1, 1	B. 2, 5
	C. 4, 9	D. 9, 16
Q.30	T. H. Morgan made the first demonstrati	
	A. 1910	B. 1920
	C. 1930	D. 1941
Q.31	T. H. Morgan's classical experiments on	
	A. Linked genes do not allow crossing over	B. Chromosomes play important role in inheritance
	I Lienas are present on opromosomes	D AHA B L











Class Test

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PHYSICS MDCAT

UNIT-10 (A+ SERIES)

TOPICS:

- **Atomic Spectra**
- **Nuclear Physics**
- 0.1 Tick the series lies in infra-red region:

A. Paschen series

B. Pfund series

C. Brackett series

D. All of the above

How many types of Quarks Q.2

are there? B. 6

A. 2 C. 8

D. 10

Q.3Nuclear forces exist between

A. neutron - neutron

B. proton - proton

C. neutron - proton

D. All of these

The decay constant of the end product of radioactive series is Q.4

A. Zero

B. Infinity

C. 1/2

D. Less than 1

A radioactive nucleus emits a beta particle. The parent and daughter nuclei are 0.5

A. Isotopes

B. Isomers

C. Isotones

D. Isobars

The equation of Rydberg constant is given by: 0.6

B. $R_H = \frac{E_o}{\lambda}$

Paschen series is obtained when all the transitions of electron terminate on. 0.7

A. 2nd orbit

B. 4th orbit

C. 3rd orbit

D. 5th orbit

1 milli Curie of radioactivity is equal to 0.8

A. 1 micro Becquerel

B. 3.7 × 107 Becquerel

C. 3.7 × 10² Becquerel

γ- radiation are emitted due to

D. 3.7 × 104 Becquerel

A. De-excitation of atom

C. Excitation of atom

B. De-excitation of nucleus D. Excitation of nucleus

Half-life of radon gas is Q.10

A. 1620years

B. 23.5 minutes

C. 3.8 days

D. 4.5×10^9 years

The expression for the radius of the nth circular allowed orbit in the hydrogen atom

Q.9

A. $r_n = n^2 r_0$

 $B. r_n = nr_o$

 $C. r_n = n^2 / r_o$

 $D. r_n = n/r_o$

Cancerous tissue in a thyroid gland can be detected by the intake of

A. Radio iodine

B. Radio carbon

C. Radio sodium

D. Radio phosphors

The half-life of 210 Bi is 5 days, if we start with 50, 000 atoms of this isotopes, the number of atoms left over after 10 days is

A. 50,000

B. 25,000

C. 12,500

D. 20,000

The radiations emitted from hydrogen filled discharge tube shows:

A. Continuous spectrum

B. Band spectrum

C. Line spectrum

D. None of these

The half-life of polonium is 140 days. After how many days, 16 gm polonium will be reduced to 1 gm (or 15g will decay)

A. 700 days

B. 280 days

C. 560 days

D. 420 days

Q.16 The decay rate is defined as

A. Decay per second C. Decayed no. of atoms B. Decay of atoms

D. Un-decayed no. of atoms

PHYSICS MDCAT UNIT-10 (A+ SERIES)

PAGE 1 OF 4





Q.17	The quark named st	range (s) having	the charge of		
	A. + 2/3	(a)B	B 2/3		
	C. + 1/3		$D_{1} - 1/3$		
Q.18				vith mass number A2 after	
	radioactive decay. T		nent is		
	A. A ₂ can never be eq				
	B. The value of A_2 wi		in that of A_1		ĺ
	C. The value A ₁ will b				,
0.10	D. The value of A ₁ wi				
Q.19	energy levels	quantum numbe	er the energy diffe	rence between consecutive	
	A. Remains constant		B. Decreases		
	C. Increases			increases sometimes decrease	S
Q.20	Shortest wavelength	photon in the Re		. Mercuses sometimes ever view	-
Q.=0	4	R	_ 1		ı
	A. $\frac{4}{R}$	B. $\frac{R}{4}$	C. 4	D. 4	
Q.21		and the second s		hydrogen atom. Given the	
4.2.	Rydberg's constant	$R = 10^5 cm^{-1}$. The fi	requency in Hz of	the emitted radiation will be	
	. 3	_ 3	9	3 - 15	
	A. $\frac{3}{16} \times 10^3$	B. $\frac{16}{16} \times 10^{13}$	C. 16×10 ¹³	D. $\frac{3}{4} \times 10^{15}$	
Q.22	If an electron jumps	10		The state of the s	
2	A. Absorb energy		B. Release ene		
	C. No gain of energy		D. None of the		
Q.23	Which two nuclei con	ntain the same n	umber of neutrons	?	
	A. \(^{12}C\) and \(^{14}C\)		B. 23 Na and 2	Mg .	
-	C. 16N and 15O		D. 32Si and 32	P	
0.24		atomic number		er A undergoes a radioactive	ï
Q.2.	decay process,	monne mander		er at under goes a radioactive	
	A. Both Z and A will o	decrease, if the pro-	ocess is a decay		
	B. Z will increase but				
	C. Z will decrease but	A will not change	e, if the process is β	decay	
0.25	D. All of these The number of proto	ne in any atom a	re always equal to	the number of	
Q.25	A. Neutrons	ins in any atom a	B. Positrons	the number of,	
	C. Electrons		D. Mesons		
0.00	E D-lman and A	<u> </u>		100	
Q.26	For Balmer series $\frac{\lambda_n}{\lambda_n}$				
	A. 5/9	B. 1/9	C. 1/4	D. 9/5	
Q.27	To ionize hydrogen a	tom from its grou	und state energy re	quired is	
	A. 13.6 eV		B13.6 eV		
	C. 3.4 eV		D3.4eV		
Q.28	Which series is emitted	when electron jun	nps from a higher or B. Balmer	bit to fifth orbit?	
	A. Lyman C. Pfund		D. Brackett		
Q.29		y of hydrogen a		llowing Bohr's theory, the	
2.2	energy corresponding				
	A. 3.40eV	e de la falencia de des	B. 1.51eV		
	C. 0.85eV		D. 0.66eV		
Q.30			13.6 eV. The energ	gy needed to ionize H-atom	
	from its second excite		0.106.11	w. 14. 1. 1V	
0.21		B. 1.51eV	C. 13.6eV	D 12.1eV =4 energy level to n=2 level.	
Q.31				nges from n=5 level to n=2	
	level	vary the alvie		Ben in an in the letter to the a	
	A. Red		B. Yellow		
	C. Violet		D. Green		





Q:32	The ratio of the er	nergies of the hydro	gen atom in the fir	st and the second excited
	A. 1:4	1	B. 4:9	
	C.4:1		D. 9:4	
Q.33	and a second sec	c effects are		
	A. Skin burn		B. Loss of hair	
	C. Drop in the white	blood cells	D. All of these	
Q.34			and two B-particles	s and transforms into a
X	thorium nucleus. V	Vhich of the followin		er and atomic number of
	the thorium nucleu	s so produced?	B. 234, 90	
	A. 230, 90 C. 230, 88		D. 234, 88	
Q.35	The decay constant	of radium is 4.28×1	0 ⁻⁴ per year. Its half	F-life will be
	A. 1240 years		B. 2000 years	
	C. 1620 years		D. 63 years	
Q.36	The half-life of the	isotope 11 Na is 15 ho	urs. How much tim	es does it take for $\frac{7}{8}$ th of
	a sample of this isot	ope to decay?		11.11
	A. 75 h		B, 65 h	
	C. 55 h		D. 45 h	
Q.37		of a radioactive ma	terial, then the fra	ction that would remain
	after a time $\frac{T}{2}$ is			
	2			
	. 1	B. $\frac{3}{4}$	C. $\frac{1}{\sqrt{2}}$	D. $\frac{\sqrt{2}-1}{\sqrt{2}}$
	A. $\frac{1}{2}$	D. 4	$\sqrt{2}$	D. <u>√2</u>
Q.38	The electric P.E of a	n electron in an orbi	it at a distance ra fro	m the positive charge
	A. Ke ² /r _n	The state of the s	B. Ke ² /r _n 2	an the bosines can be
	CKe^2/r_n		D. Ke ² /r _n	
Q.39	Sterilization of surgi	ical instruments med eam of	lical supplies and ba	ndages can be done by
	A. α-rays		B. β-rays	
	C. γ-rays		D. B and C have eq	ual antiseptic properties
Q.40	Deuterium is the mo have?			
	A. 4	B. 3	C. 2	D. 1
Q.41	Which of the followi	ng will be absorbed I		
	A. Alpha particle		B. Beta particle D. X-rays	
Q.42	C. Gamma rays	rons revolving aroun		is directly proportional
Q.42	to (n = principle qua		a nyarogen nacicus	s directly proportional
- 1	to (ii As methre dan		- 1	1
- 1	A. n	B. n ²	$C.\frac{1}{n}$	D. $\frac{1}{n^2}$
Q.43	In which sequence the reaction?	ie radioactive radiati	ons are emitted in th	e following nuclear
	T. Carrier	$X_2^A \rightarrow Y_{0A}^A -$	$\rightarrow K_{z-1}^{a-4} \rightarrow K_{z-1}^{A-4}$	
	A. α, β and γ	. ""	B. B. a and v	
	C. β , γ and α		B. β , α and γ D. γ , α and β	
0.44	In an α-decay		72.0	
	A. The parent and dau B. The daughter nucle C. The daughter nucle	eus has two protons les eus has one proton mor	s than parent nucleus to than parent nucleus	
Q.45	A thorium nucleus i number of thorium i	eus has two neutrons m s formed when a ura s	nium nucleus emits	us an α-particle. Atomic
1.35	A. 92		B. 90	
201	C. 82	11/2 = 410 2010	D. 94	





Q.46	The radioactive i	nuclide s _é Ra ²²⁸ d se nuclei X finall	ecays by series of en	ission of three α-particle and		
	A. 84X ²²⁰		B. 86X ²²²			
	C. 81X ²¹⁶		D. 88X ²¹⁵			
0.47	Doses of	will couse re	diation burns to the	kin		
Q.47	A. 2Sv	will cause la	B. 4Sv	, Kili		
	C. 3Sv	*				
0.40			D. 5Sv			
Q.48	The unit of decay	constant is:	- 1			
	A. sec		B. sec ⁻³			
	C. sec-2		D. sec-1			
Q.49	Energy of an elec	tron in hydrogei				
	A. Less than zero		B. Greater tha	nn zero		
	C. Zero		D. Positive			
			the first excited state ectron in this state is	e of an hydrogen atom is - 3.4		
	A 3.4 eV		B. 3.4 eV			
	C 6.8 eV		D. 6.8 eV			
Q.51		ident on a nuclid		Y and two β-particles		
2.01		88 + 2He ⁴ →		· IIII		
	which is correct					
	A. $x = 90$, $y = 39$		B. $x = 92, y =$			
	C. $x = 92$, $y = 41$		D. $x = 90$, $y =$	38		
Q.52	The nuclei 6C13 a	nd $_{7}N^{14}$ can be c				
	A. Isotones		B. Isobars			
	C. Isotopes of carb	on	D. Isotopes of			
Q.53			of radium is 1.07×10	per year, then its half-life		
	period is approxi	mately equal to				
	A. 8,900 years		B. 7,000 years			
0.54	C. 6,476 years	and some to some	D. 2,520 years			
Q.54	momentum of the	An electron of hydrogen is present in the 3.4 eV energy state. Find the angular momentum of the electron.				
	A. 2h	p h	C 3h	D. 4h		
	Λ . $\frac{1}{\pi}$	π. π	C. $\frac{3h}{2\pi}$	D. π		
Q,55			reduces to 10 g in 4 mi	nutes, then in what time will		
	A. 8 min	absumee reduce	B. 12 min			
	C. 16 min		D. 20 min			
Q.56		tive materials ha				
4.0	A. Same half-life		B. Different ha	If life		
- 10	C. Same total life		D. Both B & C			
Q.57		itrino is occupied	by the emission of:	그 사내는 이 가장 없는 사람들이 있다.		
*	Α. α*	B. β-	C. B*	D. All of these		
0.50						
Q.58	When an animal dies each gram of carbon in its body emits about 16β particles each minute. Each gram of carbon from same animal remains is found to emit 4β particles per minute. How old is the animal (Half-life of radioactive carbon is 6000 years)?					
	A. 3000 years	ord is the animal (B. 6000 years	carron is dood yearsy.		
	C. 12000 years		D. 18000 years			
Q.59	If the half-life of	a radioactive mi		n its half-life after 10 days		
3.5	will become:					
	A. 50 days		B. 200 days			
out the	C. 400 days		D. 100 days			
Q.60						
4.10	A. Loses a small fi		y B. Losses most			
	C. Loses no energy	atall	D. Loses all of i	as energy		

J= 27/40 Nh KIPS

2 men = (1) n 1 1/2 = 0.69

KH (Pr nr)

Class Test

	Roll No. half-life constant
ABCD ABCD ABCD ABC	C D Roll No.
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CHEMISTRY MDCAT

UNIT-10 (A + SERIES)

	ON11-10 (A	+ SERIES)
OPI		
	✓ CARBOXYLIC ACIDS	
	✓ MACROMOLECULE	
.1	The acid with strongest conjugate base i	
	A. CH ₃ CH ₂ COOH	B. CH ₂ Cl CH ₂ COOH
	C. CCI ₂ COOH	D. CH ₃ CH ₂ CH ₂ COOH
).2	Which of the following acids has greater	
	A. Butyric acid	B. Propanoic acid
	C. iso-Butyric acid	D. Succinic acid
2.3	IUPAC name of Glutaric acid is	The second secon
	A. Pentan-1,5-dioic acid	B. Pentane dicarboxylic acid
	C. Ethane dioic acid	D. Propane dioic acid
2.4	of	uce carboxylic acids through the formation
	A. Acid halides	B. Acid amides
	 C. Ammonium salts of carboxylic acids 	D. Amino acids
2.5	Which of the following carboxylic acid h	as Lowest pH value
7. 11.	A. Butyric acid	B. Acetic acid
	C. Pentanoic acid	D. Oxalic acid
2.6	Mechanism of which reaction involves p	roton shift in an intermediate?
•	A. Esterification	B. Amide formation
	C. Both A and B	D. Acid halide formation
2.7	The reaction that does not result in the f	ormation of salt of fatty acid is?
•	A. Reaction of carboxylic acid with PCIs	B. Reaction of ester with NaOH
	C. Reaction of acetic acid with Na	D. Reaction of Acetic acid with Soda ash
Q.8	Which derivative of carboxylic acids is v	videly used in food industry
	A. Acetic acid	B. Acid anhydride
	C. Ester	D. Acid halide
2.9	The most stable derivative of carboxylic	acids is?
	A. CH ₃ COOC ₂ H ₅	B. CH ₃ COCl
	C. CH ₃ COOH	D. CH ₃ CONH ₂
01.0	In esterification reaction alcohol acts as	
	A. Electrophile	B. Free radical
	C. OH donor	D. Nucleophile
	m	
11.ç		onyl chloride is example of reaction
	A. Electrophilic substitution	B. Nucleophilic substitution
	C. Nucleophilic addition	D. Complete reduction
Q.12		arboxylic acid produces the most reactive
	carboxylic acid derivative?	n n d dd mil
	A. Reaction with PCls	B. Reaction with Ethanol
	C. Salt formation	D. Reaction with NH ₃
Q.13		ir of pineapple for a product. An ester with
	this odour has the formula C3H7CO2C21	
	A. C2H3Cl and C3H7CO2H	B. C ₂ H ₅ OH and C ₃ H ₇ CO ₂ H
	C. CH ₃ OH and C ₃ H ₇ CO ₂ H	D. C ₃ H ₇ OH and C ₂ H ₅ COCl
Q.14	Propanoic acid liberates CO2 from Na2C	
	A. Methyl group	B. Carboxyl group
	C. Methylene group	D. Carbonate ion
Q.15		
	A. Butanoic acid	B. Propanoie acid
	C. Ethanoic acid	D. Oxalic acid

		The state of the s		
Q.16	Which of the following has maximum	number of carbon atoms.		
	A. Succinic acid	B. Adipic acid		
	C. Oxalic acid	D. Malonic acid		
Q.17	Which of the following reagent is u	sed to convert carboxylic acids into primary		
11. Tan 9 1991	alcohol			
	A. LiAlH4	B. NaBH4		
	C. KMnO ₄	D. Ni		
Q.18	General formula for the carboxylic a	cid is CnH2n+1COOH. What is the value of "n"		
	here for formic acid.			
	A. 1	B. 2		
	C. 3	D. 0		
Q.19	By oxidation of which compound carb	oxylic acid can not be obtained		
	A. 2-Methyl-2-propanol	B. 1-Butanol		
	C. 2-Butanol	D. 3-Propanol		
Q.20	Reagent used to reduce a carboxylic a	cid to an alkane is		
	A. Ni/H ₂	B. P/HI		
	C. NaBH4	D. LiAlH4		
Q.21	Velaric acid is obtained from a herb v	elarian. Its IUPAC name is		
•	A. Propionie acid	B. Butyric acid		
	C. Pentanoic acid	D. Caproic acid		
0.22	CH3CH2 - MgBr + CO2 -> Product is			
V	A. C ₃ H ₇ COOH	B. C ₂ H ₅ COOH		
	C. C ₄ H ₉ COOH	D. HCOOH		
0.23		choose the correct name of the compound.		
		-C-COOH		
		C-COOH		
	A. Fumaric acid	B. Maleic acid		
	C. Succinic acid	D. Tartaric acid		
Q.24				
	A. Hydrogen bonding	B. Chemical reaction		
	C. London forces	D. Dipole-dipole interaction		
Q.25				
	A. It decreases the activation energy	B. It increases the activation energy		
.	C. It changes the equilibrium constant	D. It is highly non specific in nature		
Q.26	One of the following compounds reacts with its own oxidation product (an oxidation			
	which involves no loss of carbon) to gi			
W .	A. Propanal	B. 1-Propanol		
	C. Propanone	D. Propanoic acid		
Q.27	An acid with unpleasant smell A. Formic acid	D. Anathanald		
		B. Acetic acid		
0.40	C. Propanoic acid	D. Butyric acid		
Q.28	Which of the following is not an ester			
	A. Amyl acetate	B. Sodium butyrate		
V.,	C. Isobutyl formate	D. Octyl acetate		
Q.29	그리고 있다면 그리고 있는데 그리고 있다고 있다고 있다는데 보는 그리고 있다면 하는데 그리고 있다면 그리			
	A. Methanol	B. Ethanol		
	C. Phenol	D. Propanol		
Q.30	A And formation	substitution reaction of carboxylic acid		
	A. Acyl formation C. Ester formation	B. Salt formation		
	C. Easter (Oriniauon	D. Acid amide formation		



	100	The state of the s
Q.31		
	A. CH₃COOH	B. CH ₃ CH ₂ COOH
	C. CI-CH₂COOH	D. Br − CH ₂ COOH
Q.32	On strong heating, ammonium	
	A. Urea	B. Formamide
	C. Acetamide	D. Methyl cyanide
Q.33	Alkane nitrile is converted into	carboxylic acid by passing through
	A. Ammonium acetate	B. Iso-butyrate
	C. Acid amide	D. Alkyl amine
Q.34	All of the following are dicarbo	xylic acids except
•	A. Phthalic acid	B. Malonic acid
	C. Oxalic acid	D. Valerie acid
Q.35	The general formula for aliphat	ic monocarboxylic acid is
•	$A. C_nH_{2n}O_2$	B. C _n H _{2n+2} O
	C. C _n H _{2n} O	D. C _n H _{2n}
Q.36		ylic acid will be the product on hydrolysis of eth
Quo	butyrate	,
	A. Propanoic acid	B. Butanoic acid
	C. Ethanoic acid	D. Methanoic acid
0.27		
Q.37	A. Formic acid	B. Acetic acid
	C. Propionic acid	D. Butyric acid
() 29	The common name of butane-1,	
Q.38	A. Oxalic acid	B. Succinic acid
	C. Malonic acid	D. Fumarie acid
O 20	Which of the following is the str	
Q.39	A. HCOOH	B. CH ₃ COOH
	C.C ₆ H ₅ -OH	D. C6H5-COOH
Q.40		cetic acid heated in presence of P2Os
Q.40	A. Acetyl chloride	B. Trichloro acetic acid
	C. Acetic anhydride	D. Dichloro acetic acid
Q.41	-	e of carboxylic acid is more reactive
Q.11	A. CH ₃ COOC ₂ H ₅	B. CH ₃ CONH ₂
	C. CH ₃ COOH	D. CH ₃ COCI
Q.42	Which compound gives CO2 with	
	A. Hexanol	B. Phenol
	C. n-butanol	D. Acetic acid
Q.43	Acetamide is made by heating ar	nmonium acetate, the reaction that tales place is
	A. Dehydrogenation	B. Condensation
	C. Drying	D. Dehydration
Q.44		is less soluble as well as least acidic in water
	A. CH ₃ COOH	В. НСООН
	C. CH ₂ (CH ₂) ₂ COOH	D. CH ₂ CH ₂ COH
Q.45	Which of the following is not a fa	tty neid
	A. Adipic acid	B. Palmitic acid
	C. Stearic acid	D. Both B and C
Q.46		나 가장이 없어 보다 되었다. 그렇지만 그렇지는 그 것도 있다. 그리고 그렇게 하는 그 그 없다.
	A. Banana	B. Jasmine
	C. Pineapple	D. Apricot
Q.47	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	A. Half C. Four	B. Two D. One
	50 1 001	D. One

D. One



Q.48	Acidic hydrolysis of Propanenitrile yield a compound "X". When "X" is treated with HI/P it gives Propane, The compound "X" is?			
	A. 1-Propanol	B. Ethane		
	C. Propanoic acid	D. Ethanamide		
	H ₃ C	ОН		
Q.49	Correct IUPAC name of O			
	A. Pyruvic acid	B. 2-Oxopropanoic acid		
	C. 2-Methy-2-oxoacetic acid	D. Succinic acid		
Q.50	The activity of enzyme is best at	or around the temperature		
	A. 310K	B. 37K		
	C. 273K	D. 25°C		
Q.51	The activator of Carbonic anhy-	drase enzyme is		
Z	A. Fe ⁺²	B. Mg ⁺²		
	C. Zn ⁺²	D. Ba+2		
Q.52	The non-protein part of an enzy			
4	A. Co-enzyme	B. Apoenzyme		
	C. Inhibitor	D. Substrate		
Q.53	The main structural feature of p	protein is		
	A. Ester linkage	B. Peptide linkage		
	C. Ether linkages	D. Glycosylic linkage		
Q.54	Which one doesn't convert carb	oxylic acid into acid halide		
	A. Cl ₂	B. PCls		
	C. SOCl ₂	D. PCh		
Q.55	Proteins are macro molecules th	at mostly contain		
	A. single type of monomer			
	B. Single type of amino-acid			
	C. Single type of side chain between			
		ween two consecutive peptide bonds		
Q.56	The helical structure of protein			
	A. Ether bond	B. Peptide bonds		
	C. Intermolecular H-bonds	D. Intramolecular Hydrogen bonds		
Q.57		ents is not present in all proteins?		
	A. Carbon	B. Hydrogen		
	C. Nitrogen	D. Sulphur		
Q.58	Denaturation of protein is cause			
7	A. Change the temperature	B. Change the pH		
	C. Change the heat	D. All of these		
Q.59	Which of the following proteins			
. 1	A. Collagen	B. Haemoglobin		
Q.60	C. Albumins Collagen and albumin are	D. Both A and C		
Q.au	A. Derived proteins	B. Simple proteins		
	C. Compound protein	D. Polysaccharide		
	S. Sompound Protein	D. I Oly adventage		

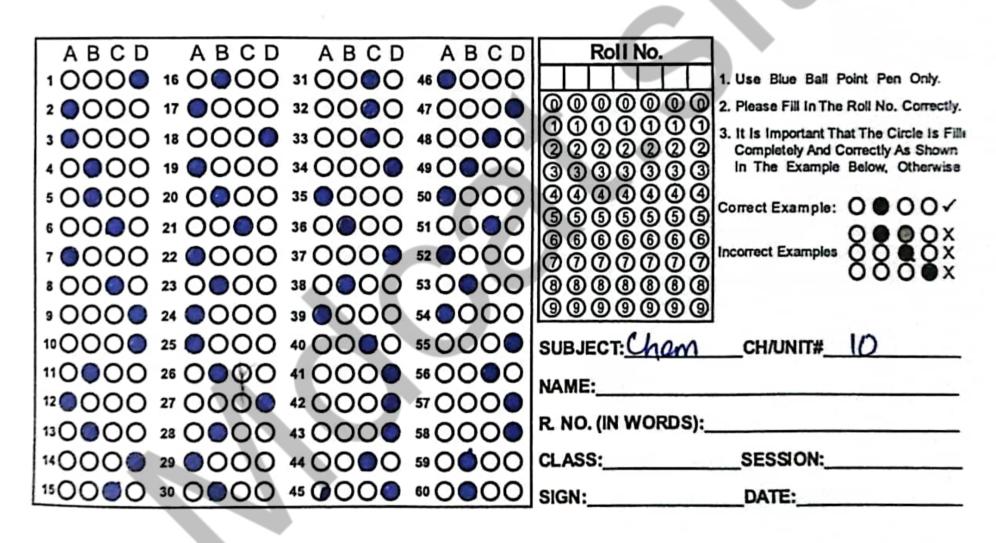
KIPS acid strong

PREPARATIONS

No of Cy acid strong Upids nester Br -> what acid acid

Cl -> strong acid

Class Test





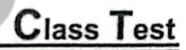
ENGLISH MDCAT

TEST-10 (A+ SERIES)

	The second secon		
TOPIC	S: TEST- NOUN, READING COMPREHENS	ION & VOCABULARY	(151-208)
Directi			
Directi	Spot the Error		
Q:1	There is a large amount of sugars in the brow	wnies, so they should not	be eaten frequently.
Q.I	A. is B. amount	C. sugars	D. they
Q.2	A Sindhi woman crosses stones, excrements and		
Q.2	A. excrements B. crumbs	C. the	D. slums
0.3	Maybe the hairs of my head could be counted, but i		
Q.3	A. Maybe B. hairs	C. ever	•D. regards
0.4	Viewers also get to see what 700 dynamites	and 3 000 gallons of gasol	
Q.4	like before they explode.		
	A. viewers B. 700 dynamites	C.3,00 gallons	D. garbage cans
Q.5	The Writer offered three hundreds dollars for the	e oyster, though he knew the	
	A. hundreds B. for	C. though	D. it
Q.6	Fresh vegetable could be obtained only durin		
	A. vegetable B. only	C. during	D. growing
Q.7	The odd against being hit by a falling object		
	A. odd B. are	C. million	D. to
Q.8	The news reporter's survey shows that the ur	nemployment statistics is o	listurbing <u>in our country.</u>
-	A. reporter's survey B. unemployment	C. is	D. in our country
Q.9	Most of the money collected by custom co	mes from import duties	on mineral fuels, petrol, gas,
	machinery, equipment and automobiles.		
	A. custom B. mineral fuels	C. machinery	 D. automobles
Q.10	You must obey my orders: no telephone calls		the outside.
4.10	A. orders B. call	C. communications	D. butside
Q.11	The swim you took must have addled your br	ain more than I thought.	
	A. The swim B. took	C. brain	D. than
Q.12	Judged on this criteria, the tour is undoubted		roportions.
	A. on B. this	C. the tour	D. proportions
Q.13	He gave me an advice but I did not act upon I		
	A. gave B. an advice	C. act upon	D. advice
Q.14	Al-Zahra became the nucleus of a royal subur		
	A. the nucleus B. suburb	C. remain	D. be seen
Q.15	When I reached in the garden, I saw the child	ren who were climbing lik	<u>e</u> monkies.
	A. in the garden B. who	C. like	D. monkies
Q.16	Surely, these (A) disease carrying vermins (B) are (C) totally unaccep	otable and it is high time the
. 	authorities did (D) something about them.	1	
	A. these B. vermins	C. are	D. did
Q.17	Experiments (A) revealed the same cells (B) that	at have also been discovere	d (C) in rats, gophers, mouses,
	(D) and hamsters.		
	A. Experiments B. the same cells	C. been discovered	D. mouses
Q.18	Man (A) versus Horse Marathon is (B) an ani	nual race over 22 mile lon	g (C) where runners compete
	against riders on horseback. (D)		
- 1	A. Man B. is	C. mile long	D. horseback
Q.19	Judged (A) on this criteria, (B) the tour is und		umental proportions. (D)
	A. Judged B. this criteria	C. a flop	D. proportions
Q.20	Six to eight(A hundred people(B are living(C i		
	A. Six to eight B. hundred people	C. are living	D. in those marble ruin
DIREC	TIONS:		
	Choose the Correct Option.		
Q.21			크리는 보다[[다] 하나네이를 다.
100	A. This is my uncle's, the engineer's office.	B. This is my uncle's, t	he engineer office.
	C. This is my uncle, the engineer office.	D. This is my uncle, the	
Q.22		the same in this attents of	engineer stanten
	A. I will be back as soon as I change my clothe.	B. I will be back as soo	n as I change my cloth.
	C. I will be back as soon as I change my clothes.	D. I will be back as soo	n as I changed my clothes.
Q.23		말음 11번째는 5번 말면 하고 보세면 11년 H	
	A. The captain established headquarters in an aba	ndoned bar.	보험, 화대, 많은 사람이 된 이 보험이 어린
	B. The captain established headquarter in an aban	doned bar.	
	C. The captain established headquarters in an aba	ndon bar.	. [1] - [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]
State of the state of	D. The captain established headquarter in an aban	doning bar.	[일하다] 경우 [[[[[[[[[[[[[[[[[[



		. 15 .4	D. 1	. G. S.	
Q.24		St			
	A. Having handing Harry three ten-dollar bills, he left the shop. B. Having handed Harry three ten-dollar bill, he left the shop.				
	C. Having handed Harry D. Having handed Harry				
0.25	D. Having handed Harry	three ten-donar bills,	Clark left the shop.		
Q.25	A. The sceneries of Kash	mir are very good	B. The sceneries of	Kashmir have very good.	
	C. The sceneries of Kash		D. The scenery of k	Cashmir is very good.	
Q.26	C. The sechenes of Rash	" were very good.	D. The seemery or t	The control of the co	
2.20	A. Some new pieces of fur	niture have been added.	B. Some new items	B. Some new items of furniture has been added.	
	C. Some new furniture h		D. Some new furnit	ures have been added.	
Q.27		,			
_	A. I will get you a pieces	of paper, so you can	write the number down.		
	B. I will get you some papers, so you can write the number down. C. I will get you a paper, so you can write the number down.				
	D. I will get you a piece	of paper, so you can w	rite the number down.	Y . Y	
Q.28			B Mark and the		
	A. More people are in w		B. Much people are	B. Much people are in works than ten years ago.D. More people are in works than ten year ago.	
0.20	C. More people are in w	ork than ten year ago.	D. More people are	in works than ten year ago.	
Q.29	A. There was not much tr	office on the reads	R There were not m	any traffics on the roads.	
	C. There was not many tr		D. There was not mi	D. There was not much traffic on the roads.	
Q.30	c. There was not many ti	arrie on the roads.	D. There was not mi		
(A. The black trouser suit	cost me five thousand	rupees.		
	B. The black trousers suit cost me five thousand rupees.				
	C. The black trouser suit				
	D. The black trousers suit	cost me five thousand	I rupee.		
DIREC	CTIONS:	· descriptions for			
	Choose the correct SY	NONYM:			
Q.31	REINFORCE	D. Invasia	C. Thwart	D. Foil	
Q.32	A. Augment REPRIMANDED	B. Impair	C. Thwart	D. Fon	
Q.52	A. Esteemed	B. Exalted	C. Acclaimed	D. Chastised	
Q.33	RIOT	D. D. L.			
Contractor to	A. Commotion	B. Poise	C. Ruse	D. Banality	
Q.34	RELUCTANTLY			and the second	
	A. Gallantly	B. Vehemently	C. Intrepidly	D. Diffidently	
Q.35	REFUGE	D. Austr	0.0	6.6	
Direct	A. Heaven	B. Atop	C. Susceptibility	D. Precariousness	
Direct	Choose the correct AN	FONYM			
Q.36	RESONANT				
	A. Booming	B. Hollow	C. Evocative	D. Reminiscent	
Q.37	RARELY		67 67 0 10 10 10 10 10 10 10 10 10 10 10 10 1	1000	
	A. Occasionally	B. Sporadically	C. Invariably	D. Rudimentary	
Direct				. 1	
0.30	Choose the correct SPE	LLING			
Q.38	A. Quotation	B. Qotation	C. Qoutation	D. Qutation	
Direct		b. Quation	C. Quitation	D. Quiation	
	Read the following pass	age and answer the q	uestions carefully		
- V	About a hundred years ag	o, whenever an operation	on was performed, the patient	t would cry out in agony because	
	he felt the surgeon cut hi	s flesh. But now serior	us operations are performed	without pain, and thousands of	
	lives are saved. James Sir	npson was the first to d	iscover and use the pain-kill	ing power of chloroform. James	
1	was born into a poor fam	ily. So in his childhoo	d, he not only helped his fat	her on holidays but also helped	
	treatment. He now made	this life's mission to fi-	dire suffering of the people	e who came to the hospital for prevent so much pain. Simpson	
			loroform. Now the patient is		
Q.39	Who discovered the pair			not airaid of the operation.	
4	A. James Simpson.	B. Marlow	C. America	D. Fleming	
Q.40	Why are patients not af	raid of the operation?			
		D Beautre of every		D. Dunaura of duntage	





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4 0 0 0 0 19 0 0 0 0 34 0 0 0 0 49 0 0 0 0	
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LOGICAL REASONING MDCAT

UNIT-6 (A+SERIES)

TOPIC:

CRITICAL THINKING

QUESTIONS 1-4

The force of technological change will have an impact on the manufacturing industry. But the real effect will be on the information processing industry like software development, service industries like airlines, insurance and consulting --- both technical and managerial, designing and executing jobs. Another feature of technological change by the end of century will be the resistance to change from within and outside the organizations. Satisfactory resolutions will require a high degree of mutual cooperation between Government and Industry, Industry and its users, Management and Unions and within organizations across functions.

- Q.1 The technological change will affect only specific functions in an organization leaving the others undisturbed.
 - A. Definitely true

B. Data inadequate

C. Definitely false

D. Probably true

- E. Probably false
- Q.2 As compared to service industry, the manufacturing industry will be less affected by the technological change:
 - A. Definitely true

B. Probably true

C. Data inadequate

D. Probably false

E. Definitely false

- Q.3 Technological change has already set in:
 - A. Definitely false

B. Probably false

C. Data inadequate

D. Probably true

E. Definitely true

Q.4 People prefer status quo:

A. Probably true

B. Probably false

C. Definitely true

D. Definitely false

E. Data inadequate





QUESTIONS 5-8

There is more bad news on food front. It now appears certain that there will be a shortfall of about 9 million tons in the food production in the current kharif season, which in turn means five million tons less than the production achieved in the last kharif season. However, rice procurement may only be partially affected since KPK and Sindh have had sufficient rainfall while Punjab, the major contributor to the central pool is less dependent on rainfall. Still, the overall availability of rice may go down by more than four million tons. There may be worst news ahead.

Q.5 There is no canal water facility in KPK and Sindh.

A. Definitely false

B. Probably false

C. Data inadequate

D. Probably true

E. Definitely true

Q.6 The procurement price of rice will increase this year.

A. Data inadequate

B. Definitely true

C. Probably true

D. Definitely false

E. Probably false

Q.7 In the last year, there was a deficit production of rice by five million tons.

A. Probably true

B. Probably false

C. Definitely false

D. Definitely true

E. Data inadequate

Q.8 It is likely that production of rice will be below the normal level in the next year.

A. Probably false

B. Definitely false

C. Data inadequate

D. Definitely true

E. Probably true

OUESTIONS 9-12

Pakistani granite industry is in peril in the absence of a uniform policy from the State Governments, despite the thrust given by liberalization policies of the Union Government in the last two years. Compared to the remarkable progress in the filed during the last three years, the absence of matching policies by State Governments had put granite quarry owners and others involved in the industry on the verge of collapse in the international market. The policies differed from state to state, had created problems as far as loyalty, dead rent and duration of lease were concerned.

Q.9 The granite produced in Pakistan does not match with the quality of international level:

A. Definitely false

B. Definitely true

C. Probably false

D. Probably true

E. Data inadequate





Q.10 The Union Government's liberalization policy became applicable to granite industry only during the last two years.

A. Definitely true

B. Probably true

C. Data inadequate

D. Probably false

E. Definitely false

Q.11 Each state having granite quarry has set up its own rules which are contrary to the interest of the industry.

A. Probably true

B. Data inadequate

C. Probably false

D. Definitely false

E. Definitely true

Q.12 Till three years ago, granite production in Pakistan was not profitable.

A. Data inadequate

B. Probably true

C. Definitely false

D. Probably false

E. Definitely true

QUESTIONS 13-15

Studies have shown that there is relatively much more heart disease among people living in the north of England than people living in the south of England. There is little if any difference, however, in rate of heart disease between northerners and southerners who have the same level of income. The average income of southerners in England is considerably higher than the average income of northerners.

Q.13 People in high income brackets are in a better position to avoid developing heart disease than people in low income brackets.

A. Probably false

B. Definitely false

C. Data inadequate

D. Definitely true

E. Probably true

Q.14 There is a lower rate of heart disease among northerners with relatively high incomes than among northerners with much lower incomes.

A. Probably false

B. Definitely false

C. Data inadequate

D. Definitely true

E. Probably true

Q.15 Whether northerners have high incomes or low incomes makes no difference to the likelihood of their developing heart disease.

A. Probably false

B. Definitely false

C. Data inadequate

D. Definitely true

E. Probably true





Q.16	16 In a certain language, CAP is coded as 61, then how will PEN be coded?				
	A. 40	B. 66			
	C. 80	D. 46			
Q.17	In an examination, Naheed scored more than Zeeshan, Ussama scored as much as				
	Dia, Rukhsar scored less than Muncer, Zeeshan scored more then Ussama, Muncer				
	scored less than Dia. Who scored the lowest?				
	A. Naheed	B. Muneer			
	C. Rukhsar	D. Ussama			
Q.18	Illiteracy : Education : : Flood : ?				
	A. Rain	B. Bridge			
	C. Dam	D. River			
Q.19	Statement:				
	If the faculty members also join the strike, there is going to be a serious problem.				
	Course of Action:				
	I. The faculty members should be p	ersuaded not to go on strike.			
	II. Those faculty members who join	the strike should be suspended.			
	III. The management should not worr	y about such small things.			
	A. All follows	B. Only III follows			
	C. Only II follows	D. Only I follows			
Q.20	Statements				
	No student is a foreigner.				
	All foreigners are teachers.				
	Each teacher is director				
	Conclusions:				
	I. Some teachers are not students.				
	II. No foreigner is a student.				
	III. All foreigners are directors.				
	A. All follows	B. None follows			
	C. Only I	D. None of these			
		PERSONAL PROPERTY (1997년) 10 - 10 전 19 전 19 전 19 전 19 전 19 전			