HBT Series #01	N-MDCAT MOE	EL TEST Medical Test #01
Biology:Ch# 01-07	Chemistry: Ch# 01-06 P	hysics: Ch# 01-05 English : Subject verb agreement+vocabula
 INSTRUCTIO Students are requested to t answer sheet.ie do not fold Use only blue/black ball point the circles. Cutting and erasing on this allowed. 	ONS cake care of the or damage it. int pen to fill sheet is not (We d	DETAILS DETAILS • No. of MCQs = 200 • Total Marks = 200 • No Negative Marks . • Time = 9:00 to 11:30 am • Best of Luck.
Name:	Roll No	Date: 25 th April, 2021
BI	OLOGY	
 The capacity to ine (a) Magnification (c) Micrometry Lignin is present of (a) Primary wall (c) Middle lamella Which of the follow in the cell wall of t (a) Cellulose (c) Murine Secondary wall is (a) Parenchyma (c) Sclerenchyma Sclerenchyma Sclerenchyma Pectic acid is found (a) Primary wall (c) Middle lamella According to Fluid 	crease the size of an object is: (b) Resolution (d) Microscopy commonly in: (b) Secondary wall (d) Both b & c wing compounds is present the bacteria? (b) Cutin (d) Chitin present only in tissues: (b) Collenchyma (d) Chlorenchyma (d) Chlorenchyma d in: (b) Secondary wall (d) Cell membrane Hosaic Model the	 12. Intracellular digestion is done by: (a) Lysosome (b) SER (c) Ribosome (d) Golgi complex 13. Glyoxysomes are found in : (a) Seeds (b) Starchy seeds (c) Oily seeds (d) All of these 14. Poisonous compounds for protection of plants are stored in: (a) Glyoxysomes (b) Peroxisomes (c) Vacuole (d) Lysosome 15. Protein absent in microfilament is: (a) Actin (b) Tubulin (c) Troponin (d) Tropomyosin 16. Protein tubulin is found in: (a) Microfilament (c) Both
 embedded molecul (a) Protein (c) Glycolipids 7. The end of phosph membrane is: (a) Hydrophobic (c) Tails 8. The molecules con 	les are: (b) Lipids (d) Cholesterol colipids on the surface of (b) Hydrophilic (d) Both a and b trolling fluidity of	 (d) Intermediate filament. 17. Axoneme is composed of number of microtubules. (a) 4 (b) 5 (c) 9 (d) 11 18. Choose the pair of terms that correctly completes the sentence: Nucleotides are to proteins.
 membrane is : (a) Protein (c) Glycolipids 9. The molecules stal (a) Protein (c) Cholesterol 10. Trans face of Golg (a) Convex (b) Concave (c) Flat (d) One side conca 11. Phragmoplast is for (a) ER (c) Golgi complex 	 (b) Lipids (d) Carbohydrates (b) Lipids (d) Carbohydrates (d) Carbohydrates (e) Carbohydrates (f) Carbohydrates (f) Carbohydrates (h) Carbohydrates <li< td=""><td> (a) Nucleic acids, amino acids (b) Amino acids; polypeptides (c) Glycosidic linkages; Polypeptide linkages (d) Polymers; Polypeptides 19. The oxygen in furanose links (a) C₁ and C₄ (b) C₁ and C₅ (c) C₂ and C₄ (d) C₂ and C₅ 20. Compound formed by nitrogenous base and pentose sugar is called: (a) Nucleotide (b) Nucleoside (c) Polypeptide (d) Polysaccharide 21. Anticodes are present on: (a) tRNA (b) mRNA (c) rRNa (d) DNA </td></li<>	 (a) Nucleic acids, amino acids (b) Amino acids; polypeptides (c) Glycosidic linkages; Polypeptide linkages (d) Polymers; Polypeptides 19. The oxygen in furanose links (a) C₁ and C₄ (b) C₁ and C₅ (c) C₂ and C₄ (d) C₂ and C₅ 20. Compound formed by nitrogenous base and pentose sugar is called: (a) Nucleotide (b) Nucleoside (c) Polypeptide (d) Polysaccharide 21. Anticodes are present on: (a) tRNA (b) mRNA (c) rRNa (d) DNA

N-MDCAT MODEL TEST

	<u> </u>			
22. Aspartame is an art	ificia	l sweetener it is a.		
(a) Monosaccharide	(b)	Disaccharide		
(c) Polysaccharide	(d)	None of these.		
23. Wax found in sheep	woo	l is:		
(a) Cutin	(b)	Lanolin		
(c) Suberin	(d)	Bee wax		
24. Vitamin D is:				
(a) Waxes	(b)	Prostaglandin		
(c) Terpenes	(d)	Steriods		
25. Which of the followi	ing is	not inhibitor;		
(a) Cyanides	(b)	Penicillin		
(c) Sulphonamid	(d)	Hormone		
26. Non-competitive inh	ibito	or bind to site of		
enzyme:				
(a) Active site	(b)	Binding site		
(c) Catalytic site	(d)	Allosteric site		
27. Which of the followi	ing is	irreversible non-		
competitive inhibito	r:			
(a) Cyanides	(b)	Silver ion		
(c) Mercury ion	(d)	All of these		
28. The binding site of t	he er	zyme is that site		
which:				
(a) Recognize the sub	ostrat	e		
(b) Bind with the cof	(b) Bind with the cofactor			
(c) Change substrate	into	product		
(d) None of the above				
29. The Catalytic site of	the	enzyme is that site		
which:				
(a) Recognize the substrate				
(b) Bind with the cofactors				
(c) Change substrate into product.				
30 Combination of another		mo and coonzumo		
nroduces	ciizy.	ine and coenzyme		
(a) Prosthetic group	(\mathbf{h})	Holoenzyme		
(a) Frostrette group	(\mathbf{d})	Isoenzyme		
31 The Specificity of en	(u)	e is due:		
(a) Surface configura	tion	c 15 uuc.		
(b) PH				
(c) Hydrogen bondin	σ			
(d) High molecular v	veigh	t		
32. An essential feature of a competitive				
inhibitor s its ability	to:	competitive		
(a) Occupy allosteric	site			
(b) Combine with prosthetic group				
(c) Modify a substrat	(c) Modify a substrate			
(d) Occupy active site	e			
33. Water is liquid at ro	om t	emperature due to:		
(a) Covalent bonding	(b)	Hydrogen bonding		
(c) Ionic bonding	(d)	All of these		
34. Heat of vaporization	n of v	vater is:		
(a) 74 calories per gr	am			

- 74 calories per gram
- (b) 274 calories per gram

- (c) 674 calories per gram
- (d) 574 calories per gram

35. A change in pH affect the enzyme reaction rate by:

- (a) ionizing the active site of the enzyme
- (b) Decreasing the movement of the molecules of the enzymes
- (c) Destroying the globular structure of the enzyme
- (d) None of the above

36. Heterogeneous group of compounds are:

- (b) Lipids (a) Proteins
- (c) Nucleic acid (d) Carbohydrates
- **37. Cholesterol is:**
 - (a) Simple lipid (b) Complex lipid
 - (c) Derived lipid (d) All of these.
- 38. Which structure is found in all the proteins?
 - (a) Primary structure
 - (b) Secondary structure
 - (c) Tertiary structure
 - (d) Quaternary

39. Which of the following diseases is not caused by virus?

- (a) Polio (b) Cholera
- (c) Hepatitis (d) Influenza
- 40. Complete body of virus is called.
 - (a) Phage
- (b) Capsomeres (d) Capsid

(b) Lysis

- (c) Virion 41. Which of the following stages of lytic cycle is called adsorption?
 - (a) Attachment (b) Penetration
 - (c) Multiplication (d) Lysis
- 42. The change from lysogenic to lytic cycle in phage virus is called.
 - (a) Lysogeny
 - (c) Induction (d) penetration
- 43. Induction is a process in which:
 - (a) A viral DNA enters into bacterial DNA
 - (b) A viral DNA come out of the bacterial DNA
 - (c) A viral DNA destroys the bacterial DNA
 - (d) A viral DNA absorb bacterial RNA.
- 44. Hepatitis may be caused by.
 - (a) Virus (b) Toxicity
 - (c) Air (d) Both a & b.
- 45. Fluid filled sores are formed in.
 - (a) Herpes simplex (b) Hepatitis
 - (c) Poliomyelitis (d) AIDS.
- 46. CLCuD is transmitted by.
 - (a) Mosquito (b) Fruit fly
 - (c) White fly (d) House fly
- 47. The filament of cyanobacteria is called.
 - (a) Heterocysts (b) trichome
 - (c) Hormogonia (d) Akintes

48. The enlarged cells	present in the filament of	59. The Number
cyanobacteria are	called.	in mitochond
(a) Heterocysts	(b) Trichome	glucose mole
(c) Hormogonia	(d) Akintes.	(a) 4
49. The accessory pigm	ents of the cyanobacteria	(c) 8
are called.	·	60. Which of the
(a) Chlorophyll	(b) Phycobilins	prokarvotic o
(c) Xanthophlls	(d) Carotenes.	(a) Chloropla
50. The structure giving	g sticky nature to	(b) Chromoso
bacterium is.		envelope.
(a) Capsule	(b) Slime	(c) Cytoplasn
(c) Pili	(d) Mesosome	(d) Cytoplasn
51. Which of the follow	ing structure makes the cell	61. Glycolipids a
wall of bacteria stic	kv?	components
(a) Capsule	(b) Slime	(a) Cellular m
(c) Pili	(d) Mesosome	(c) Both of th
52. Arrange the position	n of cell membrane cell	62 Estrogen vit
wall slime and can	sule from outer to inner	evamples of
(a) Cell Wall - Cell	Membrane – Slime –	(a) Glycolinic
Cansule	Weinbrane – Shine –	(a) Orycompic
(b) Cansula Slima	Call wall Call Mambrana	63 Which torm i
(c) Slime Consule	Cell wall Cell Membrane	(a) Carbohydi
(d) Coll well Cons	sula Slima Call	(a) Carbonyu
(u) Cell wall – Caps	sule –Sinne – Cen	(C) Monosace
Vielindrane.		04. What are the
55. which of the follow	ving is saprotroph?	photosynthes
(a) Azobacier		(a) ATP and F
(1) C (1) C (1)		(1) ATD NIAT
(b) Streptococcus pr	neumonia	(b) ATP, NAI
(b) Streptococcus pr(c) Nitrifying bacter	neumonia ria	(b) ATP, NAI (c) ATP, PGA
(b) Streptococcus pr(c) Nitrifying bacter(d) None of these.	neumonia ria	(b) ATP, NAI (c) ATP, PGA (d) ATP, PGA
 (b) Streptococcus pr (c) Nitrifying bacter (d) None of these. 54. Which of the follow 	neumonia ria vings is chemoatutroph?	(b) ATP, NAI (c) ATP, PGA (d) ATP, PGA 65. In C4 plants ,
 (b) Streptococcus prince (c) Nitrifying bacter (d) None of these. 54. Which of the following (a) Azobacter 	neumonia ria vings is chemoatutroph?	(b) ATP, NAI (c) ATP, PGA (d) ATP, PGA 65. In C4 plants, (a) Palisade ti
 (b) Streptococcus prince (c) Nitrifying bacteries (d) None of these. 54. Which of the follow (a) Azobacter (b) Streptococcus prince 	neumonia ria vings is chemoatutroph? oneumonia	 (b) ATP, NAI (c) ATP, PGA (d) ATP, PGA 65. In C4 plants, (a) Palisade ti (b) Cortex of
 (b) Streptococcus prince (c) Nitrifying bacteries (d) None of these. 54. Which of the follow (a) Azobacter (b) Streptococcus prince (c) Nitrifying bacter 	neumonia ria vings is chemoatutroph? oneumonia eria	 (b) ATP, NAI (c) ATP, PGA (d) ATP, PGA 65. In C4 plants, (a) Palisade ti (b) Cortex of (c) Spongy m
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 (b) Streptococcus prince (c) Nitrifying bacteries (d) None of these. 54. Which of the follows (a) Azobacteries (b) Streptococcus prince (c) Nitrifying bacteries (d) None of these. 55. The mycelium is contracted 	neumonia ria vings is chemoatutroph? oneumonia eria omposed of:	 (b) ATP, NAI (c) ATP, PGA (d) ATP, PGA (d) ATP, PGA 65. In C4 plants, (a) Palisade ti (b) Cortex of (c) Spongy m (d) Phloem tis 66. ATP synthesis
 (b) Streptococcus prince (c) Nitrifying bacteries (d) None of these. 54. Which of the following (a) Azobacteries (b) Streptococcus prince (c) Nitrifying bacteries (d) None of these. 55. The mycelium is considered (a) Hyphae 	neumonia ria vings is chemoatutroph? oneumonia eria omposed of: (b) Thallus	 (b) ATP, NAI (c) ATP, PGA (d) ATP, PGA 65. In C4 plants, (a) Palisade ti (b) Cortex of (c) Spongy m (d) Phloem tis 66. ATP synthesi (a) Oxidative
 (b) Streptococcus prince (c) Nitrifying bacteries (d) None of these. 54. Which of the following (a) Azobacteries (b) Streptococcus prince (c) Nitrifying bacteries (c) None of these. 55. The mycelium is considered (c) Cells 	neumonia ria vings is chemoatutroph? oneumonia eria omposed of: (b) Thallus (d) Ceonocytes.	 (b) ATP, NAI (c) ATP, PGA (d) ATP, PGA 65. In C4 plants, (a) Palisade ti (b) Cortex of (c) Spongy m (d) Phloem tis 66. ATP synthesi (a) Oxidative (b) Photolysis
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 (b) Streptococcus presented (c) Nitrifying bactered (d) None of these. 54. Which of the follow (a) Azobacter (b) Streptococcus presented (c) Nitrifying bactered (d) None of these. 55. The mycelium is constrained (c) Cells 56. Reserve food matered (a) Fats (c) Starch 	neumonia ria vings is chemoatutroph? oneumonia eria omposed of: (b) Thallus (d) Ceonocytes. rial in fungi is: (b) Protein (d) Glycogen.	 (b) ATP, NAI (c) ATP, PGA (d) ATP, PGA 65. In C4 plants, (a) Palisade ti (b) Cortex of (c) Spongy m (d) Phloem tis 66. ATP synthesi (a) Oxidative (b) Photolysis (c) Substrate p (d) Photophos 67. Which of the
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 (b) Streptococcus prince (c) Nitrifying bacteries (d) None of these. 54. Which of the following (a) Azobacteries (b) Streptococcus prince (c) Nitrifying bacteries (d) None of these. 55. The mycelium is consistent of the set of	neumonia ria vings is chemoatutroph? oneumonia eria omposed of: (b) Thallus (d) Ceonocytes. rial in fungi is: (b) Protein (d) Glycogen. ving cell structures contains tration of RNA? (b) Lysosome (d) Nucleolus. gradually broken down nosis into an adult frog.	 (b) ATP, NAI (c) ATP, PGA (d) ATP, PGA 65. In C4 plants, (a) Palisade ti (b) Cortex of (c) Spongy m (d) Phloem tis 66. ATP synthesi (a) Oxidative (b) Photolysis (c) Substrate p (d) Photophos 67. Which of the retrovirus? (a) Typhoid (c) AIDS 68. Poliomyelitis (a) Motor neu (c) Brain
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 (b) Streptococcus prince (c) Nitrifying bacteries (d) None of these. 54. Which of the followies (a) Azobacteries (b) Streptococcus prince (c) Nitrifying bacteries (d) None of these. 55. The mycelium is consistent of the set of	neumonia ria vings is chemoatutroph? oneumonia eria omposed of: (b) Thallus (d) Ceonocytes. rial in fungi is: (b) Protein (d) Glycogen. ving cell structures contains tration of RNA? (b) Lysosome (d) Nucleolus. gradually broken down nosis into an adult frog. acreases in number in the his time? (b) Endoplasmic	 (b) ATP, NAI (c) ATP, PGA (d) ATP, PGA 65. In C4 plants, (a) Palisade ti (b) Cortex of (c) Spongy m (d) Phloem tis 66. ATP synthesi (a) Oxidative (b) Photolysis (c) Substrate p (d) Photophoss 67. Which of the retrovirus? (a) Typhoid (c) AIDS 68. Poliomyelitis (a) Motor neu (c) Brain 69. Pili are made (a) Carbohyda (c) Protein
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59. The Number of N	9. The Number of NADH2 molecules produced			
in mitochondria from the Breakdown of one				
glucose molecule i	s.			
(a) 4	(b) 6			
(c) 8	(d) 10.			
60. Which of the follo	wing are present in			
prokaryotic cells:				
(a) Chloroplast, DI	NA, nuclear envelope			
(b) Chromosome, N	Mitochondria, nuclear			
envelope.				
(c) Cytoplasm, DN	A, Mitochondria			
(d) Cytoplasm, DN	A, ribosome			
61. Glycolipids and lij	poprotein are important			
components of.				
(a) Cellular membr	cane (b) Cell Wall			
(c) Both of them	(d) None of them.			
62. Estrogen, vitamin	-D and cholesterol are all			
examples of.				
(a) Glycolipids	(b) Lipoproteins			
(c) Terpenes	(d) Steroids			
63. Which term inclu	des all others?			
(a) Carbohydrate	(b) Starch			
(c) Monosaccharid	e (d) polysaccharide.			
64. What are the proc	lucts of the light reactions in			
photosynthesis?				
(a) ATP and NADE)			
(b) ATP, NADPH ₂	and oxygen			
(c) ATP, PGA and	oxygen			
(d) ATP, PGA and	NADH ₂			
65. In C4 plants, fixat	ion of CO ₂ occurs in.			
(a) Palisade tissue				
(b) Cortex of stem	and hundle of chooth			
(c) Spongy mesopr	Tyll and bundle of sheath			
(d) Phioem ussue.				
00. A I P synthesis dui	ring light reactions is called.			
(a) Oxidative				
(D) PHOLOTYSIS	homulation			
(c) Substrate priosp (d) Photophosphor				
(u) Photophosphor	(a) Photophosphoryation			
v7. which of the follo	wing inness is caused by a			
(a) Typhoid	(b) Malaria			
(a) $AIDS$	(d) Sleeping sickness			
68 Poliomvelitis offer	(u) Steeping stekness.			
(a) Motor neurons	(b) Sensory neurons			
(c) Brain	(d) Muscles			
69. Pili are made un o	f nilin, which is			
(a) Carbohydrates	(b) Lipids			
(c) Protein	(d) Triglycerides			
	(u) many condes			

- etic bacteria.
 - rophic
 - (b) Use the sun rays

	(c) Oxidize inorganic c	compounds to acquire
	energy	
	(d) Both A and C are c	orrect.
71.	A bacterium with flag	gella all around is.
	(a) Monotrichous	(b) Lophotrichous
	(c) Amphitrichous	(d) Peritrichous
72.	Conjugation is facilita	ated by.
	(a) Capsule	-
	(b) Pili	
	(c) Flagella	
	(d) Both pili and flagel	la
73.	Bacterial membrane (differ from eukarvotic
	membrane in.	,
	(a) Lacking proteins	(b) lacking linids
	(c) Lacking polysaccha	aride
	(d) Lacking cholesterol	
74	The coll wall consists	of two ovorlanning shells
/ 4.	in	of two over apping sitens
	III.	(b) Distance
	(a) Euglemonus	(D) Diatonis
	(c) Dinomagenates	(d) Brown aigae.
75.	Which aigai group is	mismatched:
	(a) Green algae clos	sed relatives of land plants
	(b) Dinoflagellates 1	two part shell
	(c) Brown algae inc	lude the larges seaweed
_	(d) Diatoms phytop	lankton
76.	The feeding stage of a	slime mold is called.
	(a) Hyphae	(b) Plasmodium
	(c) Rhizoids	(d) Mycelium
77.	Fungi resemble anima	als because they are.
	(a) Saprotrophs	(b) autotrophs
	(c) Heterotrophs	(d) heterosporous
78.	Fungi cell walls conta	in chitin, which is also
	found in exoskeleton (of.
	(a) Arthropods	(b) Molluscs
	(c) Echinoderms	(d) Chordates.
79.	Which of the followin	g is associated with
	asexual reproduction	in fungi.
	(a) Zygospores	(b) Ascospores
	(c) Basidiospores	(d) Conidia.
80.	Which of the followin	g is called mitospore.
0	(a) Zvgospores	(b) Ascospores
	(c) Basidiospores	(d) Conidia
		STRY
81	. Calculate the volum	ne occupied by 2.8 g of
	nitrogen gas at STP	•
	(a) 22.4 dm^3	(b) 2.4 dm^3
	(c) 44.8 dm^3	(d) 4.4 dm^3
82	. Calculate the numb	er of moles NaCl in 75.0
	g of table salt?	
	(a) 0.643	(b) 0.799
	(c) 28.0	(d) 1.28

DDE	L TEST	Contact # 091 5601593
83.	How many moles o	f NaCl are produced
	from the reaction of	of 6.022×10^{23} molecules
	of HCl with one me	ole of NaOH?
	(a) 6.022×10^{23} mol	(b) 0.5 mol
	(c) 3.011×10^{23} mol	(d) 1 mol
84.	If 28.0 g nitrogen g	as is reacted with 8.0 g
	hydrogen to form a	ammonia, the limiting
	reactant among the	e two will be:
	(a) N ₂	(b) H ₂
	(c) Both (a) & (b)	(d) None of these
85.	A gas at STP conta	ins only 6.02×10^{23}
	atoms and is mono	atomic, it will occupy:
	(a) $1.2 L$	(b) 22.4 L
07	(c) 30.5 L	(d) 44.8 L
ð0.	Correct value of 1 10	r an electron in 20
	(a) 1	(h) 2
	$\begin{pmatrix} a \\ c \end{pmatrix} = \frac{1}{3}$	(d) Note possible
87.	How many hydrog	en atoms are present in
07.	one mole of water?	ch atoms are present m
	(a) 1.086×10^{74} atom	ms
	(b) 1.204×10^{24} atom	ns
	(c) 3.01×10^{23} atom	S
	(d) 6.02×10^{23} atom	S
88.	The energy of elect	ron in same shell of an
	atom:	
	(a) $P.E > K.E$	(b) $P.E = K.E$
~~	(c) $P.E < K.E$	(d) Not predictable
89.	1 a.mu is equal to 1	1.661×10^{-24} g, then 1.0 g
	will be equal to: (a) $(02 \times 10^{23} \text{ a mm})$	
	(a) 0.02×10^{-23} a.mu	
	(c) 6.02×10^{-24} a mu	
	(d) 6.02×10^{24} a mu	
90.	The numbers of at	oms in 18 g of H2O are
	equal to?	
	(a) 6.02×10^{23} ator	ns
	(b) 6.02×10^{24} atom	ns
	(c) 1.806×10^{24} ato	ms
	(d) 3.052×10^{23} ato	oms
91.	Mass of 1 molecule	e of oxygen is:
	(a) 32 g	(b) 16 g
	(c) $32/6.02 \times 10^{23}$ g	ř >
	(d) $32/6.02 \times 10^{-23}$ g	· · · · ·
92.	Which of the follow	ving series is observed in
	the visible region o	1 electromagnetic
	(a) Pfund series	(b) Ballmer series
	(a) I fund series (c) I yman series	(d) Bracket series
93	Transition from n	$= 4.5.6 \dots$ to n = 3 in
200	hydrogen snectrun	n gives:
	(a) Drund somiss	(h) I yman gariag

- (a) Pfund series (b) Lyman series
- (c) Paschen series (d) Bracket series

94.	Number of unit ce	ll in 936 amu of NaCl is:	104. An X – rays phot	on due to transition from
	(a) 4	(b) 16	M – shell to the v	acancy in the k – shell is
	(c) 16 N _A	(d) 4 N _A	called:	
95.	In the discharge tu	be emission the cathode	(a) K α character	istic of X – ray
	rays require:	11	(b) K <i>β</i> characteri	stic of X –rays
	(a) Low potential a	ind low pressure	(c) $K\gamma$ characteris	stic of $X - ray$
	(b) Low potential a	nd high pressure	(d) K characterist	ic of X – rays.
	(c) High potential a	and low pressure	105. Which of the foll	owing contain one
06	(u) High potential a	the excited state $n = 5$	unpaired electro	n?
90.	the merimum num	$\frac{1}{1} = \frac{1}{2}$	(a) Zn^{+2}	(b) K^{+1}
	nloss is	ider of transition takes	(c) Cu^{+2}	(d) Na^{+1}
		(b) 5	106.The rays with a p	article nature are:
	(a) 0	$(0) \ 5$	(a) $v - ravs$	(b) $x - rays$
07	(C) 10	(0) 5	(c) Cathode rays	(d) Cosmic rays
97.	which pair of gase	es can't undergo the	107. Which electronic	level will allow the
	process of diffusion		hydrogen atom to	absorb a photon but not
	(a) $H_2 \& He$	(b) $N_2 \approx CH_4$	emit?	absorb a photon but not
00	(c) HCL & NH_3	(d) All can diffuse.	(a) 1s	(b) $2s 2n 3d$
98.	The part of electro	magnetic spectrum in	(a) 13 (c) $2n 3d$	(0) 23 2p 3d
	which Lyman serie	es lies is:	108 Which one of the	following closely recembles
	(a) Visible region		an ideal gas?	tonowing closely resembles
	(b) Infrared region		$\begin{array}{c} \text{an incar gas:} \\ \text{(a) } \mathbf{Y}_{\mathbf{a}} \end{array}$	(b) Ha
	(c) Ultra violet regi	on	$(a) \Lambda c$	$\begin{array}{c} (0) \\ (1) \\ (2) \\ (3) \\$
	(d) $X - rays$		100 Which thermody	(d) He
99.	How many differen	nt values can m, assume	109. which thermough	esoco
	in the electron sub	– shell designated by	(a) 775 00 K	03 °C :
	quantum number	n = 5, l = 4?	(a) 773.00 K	(0) 774.03 K (d) 228 70 V
	(a) 4	(b) 5	(C) 220.03 K	$(\mathbf{u}) 228.70 \text{ K}$
	(c) 6	(d) 9	liferan of the circe	r four rease?
100.	. Two atoms X and	Y have the electronic	(a) CO > NO > C	li lour gases:
	configuration give	n below:	(a) $CO > NO_2 > C$.	$12 > 50_2$
	$X=1S^{2}$	$2S^2 SP^6 3S^1$	(b) $CO > SO_2 > NO_2$	$J_2 > C_{12}$
	$Y=1S^2$	$2S^2 SP^5$.	$(c) CO > NO_2 > SC$	$J_2 > CI_2$
	Which compound	is formed.	$(0) SO_2 > CI_2 > CC$	$P > NO_2$
	(a) XY	(b) XY_2	111.1 otal no of nodes	
	(c) $X_1 Y$	(d) XY_3	(a) 5	(0) 4
101.	. Which of the follow	wing color have largest	(C) U 112 Halfana ah anna a a	
	wavelength?		112. Hellum snows neg	gative joule Thomson effect
	(a) Red	(b) Blue	duet to its:	
	(c) Green	(d) Orange	(a) Low viscosity	
102.	. In the main postul	ate of Bohr atomic theory	(b) Inert nature	
the angular momentum of electron in		(c) Resistance to p	olarize	
	hydrogen atom is a	given by the relationship:	(d) Low density	
	(a) $mv = h/2\pi$	(b) $\mathbf{r} = \frac{Ze^2}{4\pi\varepsilon_o mv}$	113.A gas diffuse ¹ / ₂ ti	mes as fast as hydrogen
	(c) mvr = nh/2 π	(d) hvc	gas, its molecular	mass is:
103.	. Select the one havi	ng half – filled p orbital's	(a) 32 amu	(b) 25 amu
	on losing an electr	on:	(c) 8 amu	(d) 16 amu
	(a) Nitrogen	(b) Lithium	114.A flask contains 6	grams of hydrogen gas
	(c) Oxygen	(d) Fluorine	and 64 gram oxyg	en at RTP the partial

pressure of hydrogen gas in the flask of the		125. The liquid with highest rate of evaporation		
total pressure [P] will be:		among the following the follow	ng is:	
	(a) 2/3p	(b) 3/5p	(a) Water	(b) Ethyl alcohol
	(c) 2/5p	(d)1/3p	(c) Ammonia	(d) n – pentane
115	The ratio of rate of.	diffusion of equal volume	126. Vapour pressure o	of a liquid does not depend
	(500cm ³) of hydrog	en and oxygen under	on:	
	same condition of t	emperature and	(a) Temperature	
	pressure?		(b) Intermolecular f	orces
	(a) 4:1	(b) 8 : 1	(c) Amount of liquid	d
	(c) 16 : 1	(d) 2 : 1	(d) Amount of solid	dissolved in the liquid
116.	Atmospheric press	are is measured by:	127. In ice the water me	olecules are bonded by:
	(a) Hygrometer	(b) Barometer	(a) Ionic bonds	(b) Hydrogen bonds
	(c) Pyrometer	(d) Spherometer	(c) Covalent bonds	(d) Metallic bonds
117.	When electric curre	ent is passed through neon	128. At high altitude th	e boiling point of water is
	gas it produces:		less than 100°C th	is is because of:
	(a) Plasma	(b) Light	(a) High atmospheri	ic pressure
	(c) Plasma & light	(d) Plasma, light &sound	(b) Weak hydrogen	bonding
118	. A pseudo solid am	ong the following is	(c) No change in atr	nospheric pressure
	•		(d) Lower atmosphe	eric pressure
	(a) NaCl	(b) Copper	129. The type of interm	olecular forces present in
	(c) Glass	(d) Diamond	solid mercury is:	
119	. Regarding liquefa	ction of gases the highest	(a) Covalent bond	(b) Ionic bond
	critical temperatu	re at a fixed pressure is	(c) Metallic bond	(d) H – Bond
	of:		130. The electrical cond	ductivity of NaCl crystal
	(a) H ₂ O	(b) NH ₃	is:	
	(c) Cl_2	(d) CO ₂	(a) More than NaBr	r crystal
120. Which of the following gases has the highest		(b) Less than NaBr	crystal	
	rate of diffuse at t	he same temperature and	(c) Equal to NaBr cr	rystal
	pressure?		(d) NaCl crystal doe	esn't conduct electric
	(a) HCl	(b) CO ₂	current	
	(c) C_2H_2	(d) C_2H_6	131. The shape or appe	earance in which a crystal
121	. A certain gas take	s three times as long to	grows is called:	
	effuse out as Heliu	m. Its molar mass will be:	(a) Crystal geometry	y (b) Crystal lattice
	(a) 36 amu	(b) 64 amu	(c) Crystal habit	(d) None of these
	(c) 27 amu	(d) None.	132. Which one of the fo	llowing characteristics is
122	. If we allow water	iquid ammonia and	not usually attributed to ionic substances?	
	liquid hydrofluori	c acid in 3	(a) High melting points	
	stalaigmometres to	o flow down from point X	(b) Deform when st	ruck
	to Y, maximum no	of drops will be	(c) Fragility	
	produced by.		(d) Crystalline	
	(a) Water	(b) Amonia	133 Most magnetic am	ong the following is
	(c) HF	(d) Same by all.	(a) Ω^{-2}	(b) N.
123. Choose the compound in which hydrogen		(a) O_2	(\mathbf{D}) \mathbf{N}_2	
	bonding is not pos	sible:	(c) N_2^2	(d) None.
	(a) H ₂ O	(b) HCl	134. Correct geometry	and shape of NH ₃
	(c) CH ₃ COOH	(d) CH ₃ CH ₂ OH	molecule are	
124	. Hydrogen bonding	g do not exist in	(a) Pyramidal & pyr	amıdal
	(a) Hydrogen	(b) Proteins	(b) Tetrahedral & py	vramıdal
	(c) Carbohydrates	(d) Ammonia	(c) Pyramidal & Tet	rahedral
			(d) Tetrahedral X7 tet	tranedral

(d) Tetrahedral & tetrahedral. Opposite Islamia College Gate#2, University Public School (UPC) Street, Danish Abad Peshawar. 0346-2627938/03334487968/0915601593

135. The melting point of a crystalline solid by		144. if 34.51 is cutted from a meter rod the	
the addition of in	mpurities:	remaining length	n is:
(a) Increases		(a) 65.49 cm	(b) 65.5 cm
(b) Decreases		(c) 65.4 cm	(d) 66 cm.
(c) Remain the sam	ne	145. When a 6 N forc	e is applied on a body of
(d) 1^{st} decreases the	en increase	mass 2 kg for 4 s	ec to move, then the K.E of
136. In ice there are H	I – bonds and covalent	the body:	
bonds. What typ	be of solid is it?	(a) 12 J	(b) 144 J
(a) Ionic	(b) Covalent	(c) 210 J	(d) 0 J
(c) Molecular	(d) metallic	146 If the velocity of	a body is doubled then %
137. The partial press	sure of oxygen in a flask	age increase in K	E is.
containing 32 g o	f O ₂ and 32 g of SO ₂ is:	(a) 100 %	(b) 200 5
(a) $\frac{PL}{16}$	(b) $\frac{rt}{2}$	(c) 300 %	(d) 400%
$(c) \frac{3}{2}$ Pt	$(d)^{\frac{2}{2}}$ Pt	147. The momentum	and velocity of a body is
120 If	$\left(\frac{d}{3}\right)^{3}$	given as $2i^+ i^-$	+ $k \& 0i^{+} i^{+} k$ then K.E is:
138. If pressure on a g	gas is doubled and its	$\begin{array}{c} \mathbf{g}(\mathbf{v}) = \mathbf{u} \mathbf{s} \mathbf{u} \mathbf$	(b) 1 J
temperature is re	educed to half the volume	$(a) \circ i$ (c) 2 I	(0) 1 5 (d) 4 I
of the gas will be	•	148. Escape velocity d	lepends upon:
(a) Remains same		(a) Mass of the n	lanet
(b) Increases 4 tim	e	(b) Density of the	e planet
(c) Decreases 4 tin	ne	(c) Radius of the	nlanet
(d) P and I can't b	e variable at same time.	(d) All of these	planet
139. Substance that h	as sharp melting point in	149 The K E given to	a body at the earth surface
the following is:		to escape it from	influence of earth gravity:
(e) Gemstone	(b) Coal tar		
(c) Glass	(d) Diamond	(a) mgR	(b) 2mgR
140. Contribution of a	atoms present at the face of	(c) mgR/2	(c) \sqrt{mgR}
cube:		150. A stone tied to th	ne end of 20 cm long string is
(a) $\frac{1}{2}$	(b) $\frac{1}{8}$	whirled in a hori	zontal circle. If the
(c) $\frac{1}{1}$	(d) $\frac{1}{1}$	centripetal accel	eration is 9.8 m/sec ² , its
(C) ₄		angular speed in	rad/sec is:
•		(a) 22/7	(b) 7
PHYSIC	S	(c) 14	(d) 20
141. The ratio of absol	ute uncertainties in 20.60	151. The ratio of esca	ape velocity to orbital
and 5.206 is:		velocity is:	
(a) 10	(h) 5	(a) 2 : 1	(b) $\sqrt{2}$: 1 ¹
(c) 0.1	(d) 0.01	(c) $1:\sqrt{2}$	(d) $1 \cdot 2$
142. A 120 g mass has	velocity of $V = (2i^+ 5i)$	152 The ratio of rot	ational K E to translational
142. A 120 g mass has velocity of $\mathbf{v} = (2l + 3j)$ m/sec at a certain instant. Its K F is:		K.E of solid sph	ere is:
(a) 3 J	(b) 4 J	(a) $1 \cdot 1$	(b) $2 \cdot 4$
		$(a) 1 \cdot 1$ (c) 2 · 5	(d) $5:2$
(c) 5 J	(d) 1.74 J	153 A ball is just all	owed to fall from the
143. A wheel is turning at a speed of 2 rev/sec		window of a mo	wing train it will hit the
and is then allowed to come to rest. If it does		ground followin	or or of the second s
so in 3 sec, how far did it turn in the		(a) Circular path	(h) Hyperbolic
process? Assume	uniform deceleration:	(c) Straight line r	ath (d) Parabolic path
(a) π rad	(b) 2π rad	154 The motion of t	he rocket in space in
(c) 4π rad	(d) 6π rad	according to low	v of conversation of:
~ /	× /	(a) Fnergy	(b) Charge

(c) Mass	(d) Momentum	164.A boy walks to his	s school at a distance of 6
155. Bodies which fall	freely under action of	km with a speed of 3 km/h and walks back	
gravity is an exa	mple of:	with a constant sp	eed of 2 km/h. His average
(a) Uniform acceleration		speed for round to	rip in km/h is:
(b) Variable accel	eration	(a) 2.5	(b) 2.4
(c) Uniform veloc	ity	(a) 2.5	(d) 2 3
(d) Average accel	aration	165 A train is 200 m k	(u) 2.5
(u) Average accel	with speed of 08 m/see at	uniform volocity of	$rac{1}{26}$ km/h the time it will
300 with horizont	tal. The missile is eitherne	take to excess a bri	dgo of 1 km is:
JU [*] with horizont	tai. The missile is an borne		(h) 120 see
IS:	(h) 20 and	(a) 100 sec	(d) 50 sec
(a) 10 sec (\cdot) 20	(b) $20 \sec(1)$		
(c) 30 sec	(d) 40 sec	166. When a projectile	is projected at an angle of
157. A person throws a	a ball vertically upward	65° then its.	
while standing in	a train moving with	(a) $\mathbf{R} = \mathbf{H}$	(b) $\mathbf{R} > \mathbf{H}$
uniform velocity.	The ball will fall:	(c) $\mathbf{R} < \mathbf{H}$	(d) $R \ge H$
(a) In his hand	(b) Behind him	167.Two bodies with r	nasse m1 and m2 have
(c) In fornt	(d) Beside him	equal K.Es. If P ₁ a	and P2 are their
158. Which one is more	e accurate?	momentum, then	the ratio between P1 and P2
(a) 10.21 cm	(b) 20.21 cm	is:	• <u> </u>
(c) 30.21 cm	(d) All same.		$\sqrt{\frac{m_1}{m_1}}$
159. At maximum heig	ht the velocity of projectile	(a) $m_1 : m_2$	(b) v_{m_2}
is:		(c) m_1^2 : m_2^2	(d) $\sqrt{m_1} : \sqrt{m_2}$
(a) Zero	(b) Minimum	168.If $\vec{A} = \vec{B}$ which of t	he following Is not
(c) Maximum	(d) Inbetween min &	correct?	
Max		(a) $\vec{A}\vec{B} = \hat{A}\hat{B}$	(b) $ \vec{A} - \vec{B} $
160.The no of significa	ant zeros in 0.0003 are.	(a) A.D = A.D	$(\mathbf{U}) + \mathbf{\hat{D}} = \mathbf{D}^{\mathbf{\hat{A}}}$
(a) 1	(b) 2	(c) $ A = B $	(d) $AB = BA$
(c) 3	(d) None.	169. The resultant of ty	wo vectors \vec{A} and \vec{B} may
161.A helicopter of ma	ass 3.0×10^3 kg rises	be.	
vertically with a c	onstant speed of 2 m/sec.	(a) Positive only	(b) Negative Only
what resultant for	ce acts on the helicopter?	(c) Zero only	(d) Positive, negative or
(a) 3×10^4 N dow	nward	zero all.	
(b) 4.5 N upward		170.Two sphere is a m	etallic and wooden of the
(c) Zero		same mass. which	one will rotate faster.
(d) 7.5×10^4 N up	wards	(a) Metallic	(b) wooden
167 The measured len	oth of an object lies	(c) Both at same sp	beed
hotwoon 20 25 cm	and 20.35 om than the	(d) cannot be comp	bared.
metween 20.25 cm	and 20.55 cm then the	171.Under the action	of α constant force a
	anity in the measurement is	particle is moving	with a constant
	(h) + 0.10 sec	acceleration. Its n	ower will be.
(a) ± 0.01	(b) ± 0.10 cm	(a) Positive	(b) negative
(c) ± 0.02	(d) ± 0.05	(a) Toshive (c) Zero	(d) Increasing
163. A stationary nucle	eus has nucleon number A.	172 When a particle n	aves in a circle with
The nucleus decay	y by emitting a proton with	uniform spood its	loves in a circle with
speed v to form a new nucleus with speed u.		(a) Velocity and ac	caleration are both constant
The new nucleus and the proton move away		(a) Velocity and ac	coloration are both vomichle
from one another	from one another in opposite direction.		tont but oppolored in a series
Which equation gives v in term of A and u?		(c) velocity is cons (d) V_{-1}	hant but acceleration varies
(a) $v = (A/4 - 1) u$	(b) $v = (A-1)u$	(u) velocity varies	but acceleration is constant.
(c) $v = Au$	(d) $v = (A + 1) u$		

173.A body is moving in a variable speed, the	a circle of radius r with e acceleration of the body	
is:		
(a) Centripetal accele	eration	
(b) Tangential accele	pration	
(c) Angular accelerat	tion	
(d) All of these		
174.A projectile has max	ximum range of 20m	
when projected with	n velocity (V). if it is	
projected at angle o	f 15° with the same	
velocity then its ran	ge will be.	
(a) 20 m	(b) 15 m	
(c) $10 \text{ m} \rightarrow$	(d) 5 m. \rightarrow	
175.A vector A is along	positive x-axis if B is $$	
another vector such	that $\vec{A} \times \vec{B} = 0$ then \vec{B}	
could be.		
(a) 4j	(b) -4î	
(c) $-(\hat{i}+\hat{j})$	(d) $(\hat{j} + \hat{k})$.	
176. The paratrooper of	mass 80 kg descends	
vertically at a constant velocity of 3.0 m/sec		
taking the accelerat	ion of free fall as 10	
m/sec. Find out what	it is net force acting on	
him?		
(a) Zero	(b) 800 N upward	
(c) 800 N downward	(d) 240 N downward	
177.Two bodies on displacement-time graph		
making an angle of	30° and 60° with time	
axis. The ratio of th	eir velocities:	
(a) 1 : 3	(b) 3 : 1	
(c) 1 : 2	(d) 2 : 1	
178.If at summit point t	he K.E & P.E become	
equal, the angle of p	projection will be:	
(a) 45°	(b) 60°	
(c) 90°	(d) 30 ^o	
179. Which of the follow	ing is correct for couple	
force?	$a > \sum r \neq 0$	
(a) $\sum_{F=0}^{F=0}$	$(b) \angle F \neq 0$	
$(\mathbf{c}) \stackrel{\text{$\angle \mathbf{F} = 0}}{\mathbf{\nabla}}$	(d) None of these	
$\sum \tau = 0$	$\sum \tau \neq 0 \qquad \sum \tau \neq 0$	
180.A body is projected	with velocity $4i^+3j$. The	
ratio of the maximu	m to minimum velocity	
is:		
(a) 1 : 1	(b) 2 : 3	
(c) $5:4$	(d) 4 : 5	
<u> </u>	_\	

ENGLISH

181. The teacher	completed this
chapter.	
A. Have	B. Has
C. Is	D. Are
182. Ram and Shyam	business
partners.	
A. Have	B. Has
C. Are	D. Had
183. Neither you nor yo	our sister should
to t	them.
A. Talk	B. Talks
C. Talked	D. Talking
184. Either of the two of	dresses shall
good.	
A. Looking	B. Look
C. Looks	D. Looked
185. Each and every m	ember to vote.
A. Has	B. Have
C. having	D. Are
186. A large number of	soldiers died
for the country.	
A. Has	B. Is
C. Are	D. Have
187. Physics	difficult to understand.
A. were	B. Are
U. 18 199 My mother along y	D. Have been
worried	with others,
A were	B Are
C Have	D. was
189. None of the candid	ates
responded.	
A. were	B. Have
C. Has	D. Is
190. The book 'Manage	ment Principles'
qu	ite insightful.
A. Are	B. Is
C. Have	D. Has
191. Politics	been one of the
debatable topics.	
A. Is	B. Are
C. Have	D. Has
192. My glasses	nowhere to be
found.	
A. Is	B. Are
C. Have	D. Has
193. There	_ pienty of space for guests
at the venue. Λ Wee	P Wore
A. was C Are	D. Wele
	D. HAVE DECH

194. The ruler and the mi	nister
killed.	
A. Was	B. Have been
C. Has been	D. Is
195. The government will _	the order
soon.	
A. Passed	B. Passes
C. Pass	C. Has passed
196. Many people	registered for the
course.	
A. Have	B. Has
C. Having	D. Is
197. Many an issue b	een resolved
A. Is	B. Are
C. Has	D. Have
198. Placidly means	
A. In a quiet and trans	quilly manner
B. Noisy	
C. Commotion	
D. Attractive.	
199. Groggy and are s	ynonyms
A. Lethargic	B. Active
C. Delayed	D. Persistent
200. Occasionally is the ant	onym of
A. Regularly	
B. From time to time	
C. Now and again	

D. Once in a while

N-MDCAT Half Book Test (HBT) series .

Date	Physics	Chemistry	Biology	English
25/04/2021	Chapter # 01-05	Chapter # 01-06	Chapter # 01-07	Subject verb agreement + vocabulary
02/05/2021	Chapter # 06-10	Chapter # 07-12	Chapter # 08-13	Tenses+ Article +vocabulary
09/05/2021	1 st year full course	1 st year full curse	1 st year full course	1 st year full grammar
23/05/2021	Chapter # 11-15	Chapter # 13-18	Chapter # 14-20	Preposition+ sentence + vocabulary
30/05/2021	Chapter # 16-20	Chapter # 19-24	Chapter # 21-27	Capitalization spelling + punctuation mark vocabulary
06/06/2021	2 nd year Full course	2 nd year Full course	2 nd year Full course	2 nd year full Grammar
13/06/2021	1 st & 2 nd year Full length test	1 st & 2 nd year Full length test	1 st & 2 nd year Full length test	1 st & 2 nd year Full grammar test