



BIOLOGY MDCAT

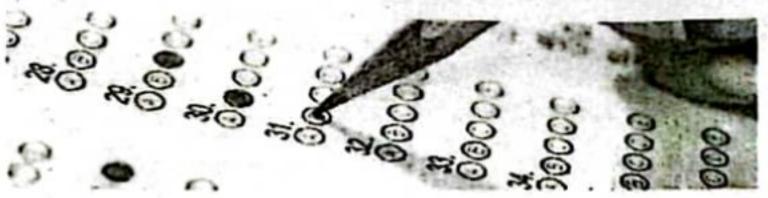
UNIT-2 (A+ Series)

TOP	PICS:	
1	Biological Molecules	
/	Enzymes	
0.1	From the following options, identify th	e one which correctly describe the
ų	monomers?	the miner correctly describe the
	1. Ribose	2. Glucose
	3. Deoxyribose	4. Sucrose
		1, 2 and 4
		2, 3 and 4
Q.2	Which statement/s about triglycerides and p	
Q	1. Both have hydrophobic regions	
	2. Triglycerides are non-polar and phospholi	pids have polar end
	3. Fatty acids in triglycerides may be satura	
	they are always saturated	THE TO SECURE STATE OF THE PROPERTY OF THE PARTY OF THE P
		1 and 3
	3,77 .7 THE 18 TH	3 only
Q.3	Which property of water makes it suitabl	
2.0	organisms?	
		Ionization
	[14] [17] [17] [17] [17] [17] [17] [17] [17	Solvent properties
2.4	Water ascends in xylem vessel due to all of th	
	그는 사람들은 사람들이 어느 아무리	Adhesion
		Hydrogen bonding
2.5	Which of the following enzyme hydrolyzes β-	
		Amylase
	1000	Cellulase
2.6	All of the following are formed through cond	
		Amylopectin
		Triglyceride
2.7	Nitrogen is not found in the monomers of:	
•		Chitin
	C. Growth hormone D.	Hemoglobin
2.8	All of the following are examples of disacchar	rides except:
•	A. Cellobiose B.	Dextrin
	C. Sucrose D.	Lactose
2.9	Which of the following has no free aldehyde of	or ketone group?
•	11. 2	Sucrose
	C. I. Imiros	Mannose
Q.10	Which molecule in the key is 'sucrose'?	
	is a reducing a	Ca.
	· · · · · · · · · · · · · · · · · · ·	~
	contains pentose sugar	contains hearing sugar
	T	T 7
	A. D B.	Ċ
	C. B D.	
0.11		
2		a-1,6
	1.21 T 2.12	β-1,4
2.12		
	hydrolyzed. Which sugar will found after hyd	
		Equal masses of α-glucose and β-glucose
		More α-glucose than β-glucose
Q.13		
	triglyceride molecule is formed?	
	A. 1 B. 1	2
	C. 3 D.	



			The state of the s
Q.14	A type of bond that holds toget A. Disulfide	ter α-helix and β-pleated B. Hydrogen	sheet of a protein is:
	C. Ionie	D. Peptide	
Q.15		glycogen is hydrolyzed	
	A. α-1, 4 and β-1, 4	B. α-1, 2 and β	
	C. a-1, 4 and a-1, 6	D. β-1, 6 only	
Q.16	Which of the following is an ext A. Waxes	B. Phospholip	ids
	C. Steroids	D. Prostagland	
Q.17	Which level of organization of		
4	molecule?		
	A. Primary structure	B. Tertiary str	ucture
	C. Secondary structure	D. Quaternary	
Q.18	It provides support to connectiv		
	A. Elastin	B. Myoglobin	
	C. Keratin	D. Myosin	
Q.19	Which molecule contains a carl	ooxyl group?	
	A. Amino acid and glycerol	contact Catter and	
	 B. Saturated fatty acid and unsatu C. Amino acid, saturated fatty acid 		id
	D. Glycerol, saturated fatty acid,		
Q.20	The diagram shows three hexos		
Q.20	The diagram shows three heads	year and	
	Which now compaths charge are	males of early about on	in which there haves sugare
	Which row correctly shows exa occur?	mpies of carbonydrates	in which these nexose sugars
	Sucrose	Cellulose	Amylopectin
	Sucrose	Centitose	7111171011221111
	Α 1	2	3
	A. 1	2	3
	A. 1 B. 1	3	2
	B. 1 C. 2	3	3 2 1
	B. 1 C. 2 D. 3	2 3 3 2	3 2 1
Q.21	B. 1 C. 2 D. 3 It is found in fruits, grains, seed		3 2 1
Q.21	B. 1 C. 2 D. 3 It is found in fruits, grains, seed A. Starch	B. Peptidogly	3 2 1
	B. 1 C. 2 D. 3 It is found in fruits, grains, seed A. Starch C. Glycogen	B. Peptidogly D. Chitin	3 2 1 1
Q.21 Q.22	B. 2 D. 3 It is found in fruits, grains, seed A. Starch C. Glycogen Which carbohydrate gives brick	B. Peptidogly D. Chitin k red color when heated	3 2 1 1
	B. 2 D. 3 It is found in fruits, grains, seed A. Starch C. Glycogen Which carbohydrate gives brick A. Cellulose	B. Peptidogly D. Chitin k red color when heated B. Fructose	3 2 1 1
Q.22	B. 2 D. 3 It is found in fruits, grains, seed A. Starch C. Glycogen Which carbohydrate gives brief A. Cellulose C. Glycogen	B. Peptidogly D. Chitin k red color when heated B. Fructose D. Sucrose	an with Benedict's solution?
	B. 2 D. 3 It is found in fruits, grains, seed A. Starch C. Glycogen Which carbohydrate gives brief A. Cellulose C. Glycogen All of the following bio-element	B. Peptidogly D. Chitin k red color when heated B. Fructose D. Sucrose s are essential for all an	an with Benedict's solution?
Q.22	B. 2 D. 3 It is found in fruits, grains, seed A. Starch C. Glycogen Which carbohydrate gives brief A. Cellulose C. Glycogen All of the following bio-element A. Carbon	B. Peptidogly D. Chitin k red color when heated B. Fructose D. Sucrose	an with Benedict's solution?
Q.22 Q.23	B. 2 D. 3 It is found in fruits, grains, seed A. Starch C. Glycogen Which carbohydrate gives brief A. Cellulose C. Glycogen All of the following bio-element	B. Peptidogly D. Chitin k red color when heated B. Fructose D. Sucrose s are essential for all am B. Sulphur D. Oxygen	an with Benedict's solution?
Q.22	B. 2 D. 3 It is found in fruits, grains, seed A. Starch C. Glycogen Which carbohydrate gives brief A. Cellulose C. Glycogen All of the following bio-element A. Carbon C. Nitrogen	B. Peptidogly D. Chitin k red color when heated B. Fructose D. Sucrose s are essential for all am B. Sulphur D. Oxygen	an with Benedict's solution? ino acids except: rated fatty acid?
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Q.22 Q.23 Q.24	B. 2 D. 3 It is found in fruits, grains, seed A. Starch C. Glycogen Which carbohydrate gives brief A. Cellulose C. Glycogen All of the following bio-element A. Carbon C. Nitrogen Which of the following is not an A. Oleic acid	B. Peptidogly D. Chitin k red color when heated B. Fructose D. Sucrose s are essential for all am B. Sulphur D. Oxygen example of polyunsatu B. Linoleic ac D. Arachdoni	an with Benedict's solution? ino acids except: rated fatty acid? cid c acid
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Q.22 Q.23 Q.25 Q.26	B. 2 D. 3 It is found in fruits, grains, seed A. Starch C. Glycogen Which carbohydrate gives brick A. Cellulose C. Glycogen All of the following bio-element A. Carbon C. Nitrogen Which of the following is not an A. Oleic acid C. Linolenic acid A phosphatidic acid molecule ed A. Glycerol C. Fatty acids Relation between nucleotide an and , re A. Protein, amino acid C. Fatty acid, lipids Among the following, the one m A. NAD*	B. Peptidogly D. Chitin k red color when heated B. Fructose D. Sucrose s are essential for all am B. Sulphur D. Oxygen example of polyunsatu B. Linoleic ac D. Arachdoni ontains all of the followi B. Phosphate D. Choline ad nucleic acid is simil spectively. B. Nucleoside D. Glucose, d olecule which has lowes B. Chitin	an acids except: rated fatty acid? ed acid ng except: group ar to the one found between eand nucleotide extrin
Q.22 Q.23 Q.24 Q.25 Q.26	B. 2 D. 3 It is found in fruits, grains, seed A. Starch C. Glycogen Which carbohydrate gives brief A. Cellulose C. Glycogen All of the following bio-element A. Carbon C. Nitrogen Which of the following is not an A. Oleic acid C. Linolenic acid A phosphatidic acid molecule ed A. Glycerol C. Fatty acids Relation between nucleotide an and, re A. Protein, amino acid C. Fatty acid, lipids Among the following, the one man A. NAD* C. Histone	B. Peptidogly D. Chitin k red color when heated B. Fructose D. Sucrose s are essential for all am B. Sulphur D. Oxygen example of polyunsatu B. Linoleic ac D. Arachdoni Ontains all of the followi B. Phosphate D. Choline ad nucleic acid is similes spectively. B. Nucleoside D. Glucose, desided by the colores B. Chitin D. Murein	ar to the one found between and nucleotide extrin
Q.22 Q.23 Q.25 Q.26	B. 1 C. 2 D. 3 It is found in fruits, grains, seed A. Starch C. Glycogen Which carbohydrate gives brief A. Cellulose C. Glycogen All of the following bio-element A. Carbon C. Nitrogen Which of the following is not an A. Oleic acid C. Linolenic acid A phosphatidic acid molecule ed A. Glycerol C. Fatty acids Relation between nucleotide an and red., red. A. Protein, amino acid C. Fatty acid, lipids Among the following, the one mand the following, the one mand the following is an examination of the	B. Peptidogly D. Chitin k red color when heated B. Fructose D. Sucrose s are essential for all am B. Sulphur D. Oxygen example of polyunsatu B. Linoleic ac D. Arachdoni Ontains all of the followi B. Phosphate D. Choline od nucleic acid is simil spectively. B. Nucleoside D. Glucose, d olecule which has lowes B. Chitin D. Murein mple of trace element for	ar to the one found between and nucleotide extrin
Q.22 Q.23 Q.24 Q.25 Q.26	B. 2 D. 3 It is found in fruits, grains, seed A. Starch C. Glycogen Which carbohydrate gives brief A. Cellulose C. Glycogen All of the following bio-element A. Carbon C. Nitrogen Which of the following is not an A. Oleic acid C. Linolenic acid A phosphatidic acid molecule ed A. Glycerol C. Fatty acids Relation between nucleotide an and, re A. Protein, amino acid C. Fatty acid, lipids Among the following, the one man A. NAD* C. Histone	B. Peptidogly D. Chitin k red color when heated B. Fructose D. Sucrose s are essential for all am B. Sulphur D. Oxygen example of polyunsatu B. Linoleic ac D. Arachdoni Ontains all of the followi B. Phosphate D. Choline ad nucleic acid is similes spectively. B. Nucleoside D. Glucose, desided by the colores B. Chitin D. Murein	ar to the one found between and nucleotide extrin





Q.29 The diagram shows structure of two amino acids, each of which has two amine groups.

		Carrier Carrie
	A peptide bond is formed bet the peptide bond?	ween these two amino acids. Which groups could form
	A. 1 and 4	B. 5 and 1
	C. 2 and 6	D. 3 and 5
Q.30		ples of homopolysaccharides except:
4.00	A. Chitin	B. Cellulose
	C. Glycogen	D. Agar
Q.31		hydrate has maximum 1, 6-glycosidic linkages?
	A. Amylose	B. Glycogen
	C. Amylopectin	D. Cellulose
Q.32	Proteins have catalytic activ	ity. Which other biomolecules can also have catalytic
	activity?	
	A. DNA	B. Lipids
	C. Carbohydrates	D. RNA
Q.33	Nucleotide contains a nitro	genous base, which is attached to theof
	pentose sugar.	
	A. 5' carbon	B. 3' carbon
	C. 1' carbon	D. 4' carbon
Q.34	그 사이들은 그리지 않는데, 얼마를 들면 하고 있는데 하면 하는데 이렇게 하는데 이렇게 되었다면 그리지 않는데 하는데 하는데 하는데 그 아이를 되었다.	A; the most important reason is:
	A. DNA is double stranded wh	
	B. 2' carbon of sugar is deoxy	
	C. Uracil is present in DNA in	
	D. Cytosine pairs with adenine	
Q.35		entist who first time determined the sequence of amino
	acids in the insulin molecule:	
	A. J. Watson	B. F. Miescher
	C. F. Sanger	D. E. Fischer
Q.36		ne is fully functional at pH 5.50? B. Enterokinase
	A. Arginase	D. Pepsin
0 27	C. Sucrase	ymatic activity besides playing other role?
Q.37	A. Collagen	B. Myosin
	C. Actin	D. Keratin
Q.38		in the formation of fumaric acid is:
Q.50	A. Succinic dehydrogenase	B. Histidine decarboxylase
	C. Malonic dehydrogenase	D. Fumaric dehydrogenase
Q.39	하게 되고 있다가 가스에 가는 하게 하면서 하면 가지만 하는 것이 되었다. 나는 사람들이 이 사람들이 하는 사람들이 되었다.	cids which can be present in active site of enzymes?
Q.D.	A. 3-50	B. 10-15
	C. 3-12	D. 10-80
Q.40		ne is maintained due to which property of water?
•	A. Polarity	B. Specific heat capacity
	C. Hydrophobic exclusion	D. Hydrogen bonding
Q.41		tify formation of terpenoids from its isomer:
· · · ·	A. Condensation	B. Hydrolysis
	C. Dehydration synthesis	D. Oxidation
Q.42	The most abundant organic	molecule present in the protoplasm of bacterial cells is:
Q	A. Carbohydrates	- B. Lipids
	C. Nucleic acid	D. Protein
Q.43	All enzymes work best in:	
	A. Acidic medium	B. Neutral medium
	C. Alkaline medium	D. Aqueous medium
Q.44	Specific properties of tail in a	
	A. Glycerol	B. Phosphoric acid
	C. Fatty acids	D. Nitrogenous base
		TO THE PROPERTY AND LOUIS.





All of the following are true about fibrous proteins except: B. Insoluble in water A. Exists in fibril form D. Form structures C. Inelastic in nature If a polypeptide chain has 150 amino acid then what will be the length of mRNA including stop codon that code for this polypeptide chain? B. 453 A. 150 D. 153 C. 450 Which statement about enzyme is incorrect? B. Specific in action A. Increase rate of reaction D. Lowers the activation energy C. Change equilibrium of the reaction The diagram shows the structure of an amino acid (cysteine). Q.48 When two such amino acids join together by 'R-groups' then which bond/s is/are formed? A. Disulfide only B. Disulfide and peptide D. Peptide only C. Hydrogen, disulfide, and peptide Q.49 Optimum temperature for the enzymes involved in spermatogenesis is: A. 37°C B. Greater than 37°C D. 25°C C. Less than 37°C Which of the following plays an important role in regulation of gene expression? Q.50B. Nucleohistones A. Glycoproteins C. Glycolipids D. Lipoproteins An enzyme which follow lock and key model is: A. Hexokinase B. Carbonic anhydrase C. Urease D. Phosphofructokinase Which of the following molecule acts as raw material in photosynthesis? Q.52 B. Glyceraldehyde A. Glucose D. Ribulose bisphosphate C. Water Anti-codon is present on: Q.53 B. tRNA A. mRNA D. dsRNA C. rRNA Cyanides are potent poisons because they can kill organism by inhibiting: Q.54 B. Phosphofructokinase A. Cytochrome oxidase D. Adenylate cyclase C. Acetylcholinesterase Which of the following property of water enable it to circulate in living bodies and to act as transport medium? B. Cohesion A. High specific heat capacity D. Hydrophobic exclusion C. High heat of vaporization At freezing point, enzymes of human body may be: B. Inactivated A. Inhibited D. Denatured C. Saturated What is the minimum number of carbon atoms found in an amino acid? B. 2 A.1 D. 4 Which type of bond is involved in primary structure of nucleic acid molecule? A. Hydrogen B. Phosphodiester C. Glycosidic D. Ionic Q.59 acts as raw material for the synthesis of NAD+. B. Porphyrin ring A. Metal ions

D. Protein

D. Vitamins

B. Triacylglycerol

Which one of the following act as the source of energy in living organisms?

BIOLOGY MDCAT UNIT-2 (A+ SERIES)

C. Hormones of steroid nature

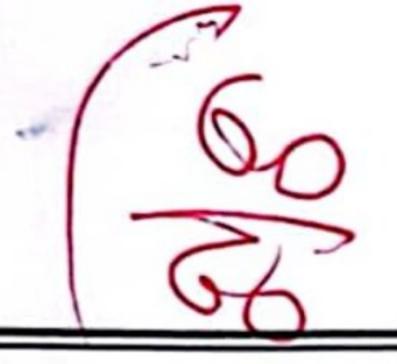
C. Vitamins

A. Waxes

Q.60

Cellotrose.





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40000	10000	54 O O O	46OOOO	3333333	In The Example Below, Otherwise
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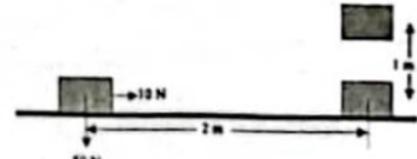
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UNIT-2 (A+ SERIES)

TOPICS:

1	Work	and	Energy	y
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A box of weight 50 N is pulled 2 m along a horizontal floor by a force of 10 N and Q. 1 then the box is lifted vertically through a height of 1 m. What is the total work done on the box?



A. 20 J

C. 70 J

B. 30 J

D. 50 J

An engine develops 10 kW of power. How much time will it take to lift a mass of 200 Q. 2 kg to a height of 40 m

A. 4 sec

B. 10 sec

C. 8 sec

D. 5 sec

Q. 3 An applied force F accelerates an object from rest to a velocity v. How much work is done by the applied force F?

A. mgh

C. 1/2 mv2

D. Zero

Q. 4 A 80 N Crate slides with constant speed a distance of 5.0m downward along a rough slope that makes an angle of 30° with the horizontal. The work done by the force of gravity is

A. 400 J

B. 210 J

D. 200 J

C. 69 J

Q. 5

What is the formula of work done?

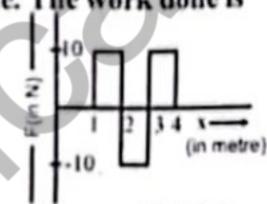
A. Work done = (force) (displacement)

B. Work done = (pressure) (displacement)

D. Work done = (mass) (acceleration)

C. Work done = (force) (velocity) Fig. shows F-x graph of a particle. The work done is

B. mFd



A. 0 J

C. 20 J

B. 10 J D. 30 J

If momentum is increased by two times K.E increases by Q. 7

A. Two times

B. 3 times

C. Four times

D. Remains

Which of the followings is an example of work done against force? Q. 8

A. Getting up with the stairs

B. Walking on the flat ground

D. Dropping any object down from the top C. Get down with the stairs Q. 9

When the speed and mass of a body are doubled, K.E of body

B. Becomes double

A. Become 4 times C. Become 8 times

D. Unchanged

Q. 10 If power of 1 kW is maintained for 1 sec than work done is

A. 10⁵ J

B. 10-6 J

C. 10³ J

D. 3.6 MJ

Q. 11 Work done by gravity when P.E of body is increased is

A. Positive

B. Negative

C. Zero

D. Both positive and negative

Q. 12 A car of mass M has an engine which can deliver power P, what is the minimum time in which the car can be accelerated from rest to speed

A. Mv/P

B. P/Mv

C. Mv²/2P

D. P/Mv²

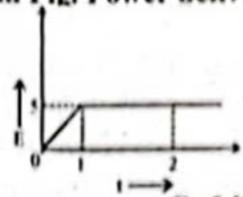
Output of a truck is 4500 J and its efficiency is 50%, input energy provided to truck is

A. 5000 J C. 9000 J B. 900 J D. 500 J

0.14	Due to application of 5 N for	ree an object moves 10 meter ale	ong perpendicular
4	direction of the force. What	amount of work is done.	
	A. 50 Joule	B. 15 Joule	
	C S Joule	D. 0 Joule	
Q. 15	A gardener pushes a lawn re	oller through a distance of 20m. nclined at 60° to the ground, find	If he applies a force of the work done by him
	$(g=9.8m/s^2)$		
	A. 400J B. 1960		D. 2514J
Q. 16	The decrease in the potentia of 50 cm is	d energy of a ball of mass 20 kg	
	A. 968 J B. 98 J	C. 17003	D. None of these
Q. 17	Power can be defined as the	product of:	
100	A. Force and displacement	B. Force and time	
	C. Force and velocity	D. Force and mass	
0. 18	Work done will be maximu	m when angle between Fandd is:	The state of the s
Q. 10			
	A. 120° B. 60°	0120	D. 0°
Q. 19	A The velocity of the object	red to stop a moving object is equa	al to:
	A. The velocity of the object		
	B. The kinetic energy of the	object	
	C. The mass of the object tin	nes its acceleration	
	D. The mass of the object tin	nes its velocity	
Q. 20	A body is falling from a hei	ight h. After it has fallen a height l	1/2, it will possess
	A. Only potential energy .	B. Only kinetic ener	gy
	C. Half potential and half kir	netic energy D. More kinetic and	less potential energy
Q. 21	When a coil spring is comp	ressed, the work is done on the spr	ing. The elastic
	potential energy		
	A. Increases	B. Decreases	
	C. Disappears	D. Remains unchang	ed
Q. 22	Two bodies of equal weight	are kept at heights of h and 1.5 h,	respectively. The ratio
	of their potential energies is	s:	
	A. 3:2 B. 2:	3 C. 1:1	D. 4:3
2. 23	Total work in F-d graph fig	is	
		3]	
		-1	
		2 4 6 8 10	
	A. 10 J	B. 100 J	
	C. 50 J	D. 0 J	
2. 24	What is ratio of K.E of a-pa	article and ¹ H ₁ if their linear mome	ntum is same?
	A. 18:1	B. 1:4	
	C. 4:1	D. 2:1	
2. 25		ous power become equal if work is	done at
	A. Any rate	B. Variable rate	
	C. Uniform rate	D. High rate	amantum las
Q. 26		20%. The percentage increase in m	and the second s
	A. 44% B. 88%		D. 9%
2. 27	not depends upon:	or keeping it on table. The work d	one on it by you does
	A. Path taken by suitcase	B. Time taken	
	C. Wight of suitcase	D. Both 'A' and 'B'	
2. 28		ve same momentum which of them	have highest K.E?
2. 20	A. Proton	B. Electron	mare anguest teats.
	C. Neutron	D. All have same K.E.	
). 29		by applying a force of 10N. He mo	ves a horizontal
2	distance of 5m and then clin	abs up a vertical distance of 10m. F	ind the total work
	done by him?	and of a contemporate or comme	
	A. 50J B. 150	C. 100J	D. 200J
2.30	Work done by central force		
4. 20	A. Minimum	B. Maximum	
	C. Zero	Dve	
	0. 2.010		



Q. 31 Energy time graph is shown in Fig. Power delivered is:



A. 2.5 W

B. 5 W

C. 0.2 W

D. 0.5 W

Q. 32 A force 2i + j has moved its point of application from (2,3) to (6,5). What is work done?

A. -10

B. -18

C. +10

D. +18

Q. 33 Two boys weighing in the ratio 4:5 goes up stair taking time in the ratio 5:4. The ratio of their power is:

A. 1

B. 16/25

C. 25/16

D. 4/5

Q. 34 Work done on a ceiling fan by gravity is

A. Maximum

C. Minimum

B. Zero

D. Infinity

Q. 35 Work done by friction

A. Increases kinetic energy of body

B. Decreases kinetic energy of body

C. Increases potential energy of body

D. Decreases potential energy of body

Q. 36 If force and displacement of particle in direction of force are doubled. Work would be

A. Double

B. 4 times

C. Half

D. 1/4 times

Q. 37 A motor having an efficiency of 0.8 uses 800 J of electrical energy. The output energy of the motor is:

A. 800 J

B.·1000 J D. 6.4 J

C. 640 J

Q. 38 Ignoring details associated with friction, extra forces exerted by arm and leg muscles, and other factors, we can consider a pole vault as the conversion of an athlete's running kinetic energy to gravitational potential energy. If an athlete is to

athlete's running kinetic energy to gravitational potential energy. If an athlete is to lift his body 5m during a vault, what speed must he have when he plants his pole?

A. 5 ms⁻¹

B. 10 ms⁻¹

C. 15 ms⁻¹

D. 20 ms⁻¹

Q. 32 The unit of the kinetic energy is same as that of:

A. Momentum

B. Velocity

C. Force

Q. 40 When five times momentum of a body is equal to the kinetic energy of the same body then its velocity is equal to:

A. 5 m/s

B. 10 m/s

C. 15 m/s

D. 20 m/s

Q. 41 Which of the following is a conservative field?

A. Electrical

B. Resistance

C. Friction

D. Magnetic

Q. 42 Find the work done by a force of 10N applied to a lawn roller, when the force acts making an angle of 30° with the horizontal, moving the roller through a horizontal distance of 10m.

A. 50√3 J

B. 75 J

C. 25 J

D. 100 J

D. Work

Q. 43 Potential energy can be defined only for

A. Conservative forces

B. Non- conservative forces
 D. None of these

Q. 44 Absolute potential energy of a body at the surface of the earth is

A. Gm/R

B. Gm/R²

C. Gm M/R

D. Gm M/R²

Q. 45 According to work energy principle work done on body will equal to change its

A. K.E only

B. P.E only

Q. 46 Work is positive if

A. $0^{\circ} \le \theta \le 90^{\circ}$

C. K.E and P.E both

B. K.E increase

C. $\theta > 90^{\circ}$

D. Both 'A' and 'B'

D. All may correct

Q. 47 At which angle work is 50% of its maximum value?

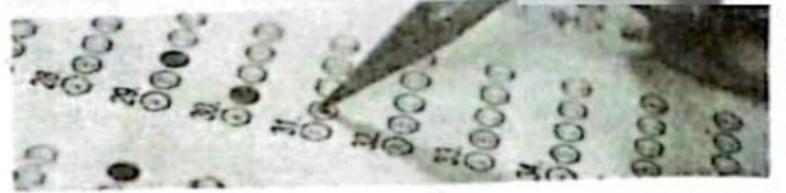
A. 0°

B. 30°

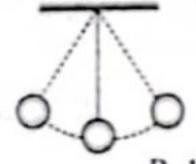
C. 60°

D. 45°





Q. 48 What is the velocity of the bob of a simple pendulum at its mean position, if it is able to rise to vertical height of 10cm (Take $g = 9.8m/s^2$)



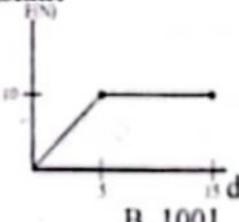
A. 0.6 m/s

C. 1.8 m/s

B. 1.4 m/s

D. 2.2 m/s

Q. 49 Find work done, when force is constant



A. 50J

C. 150J

B. 100J D. 200J

Q. 50 Work done during horizontal motion by the gravity is

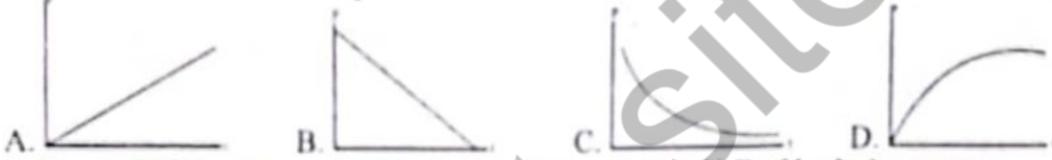
A. Maximum

B. Zero

C. Negative

D. Positive

Q. 51 When work done on a body is constant then which of the following graph is true?



Q. 52 A force of 10N acts on a body at angle 608 such that K.E of body increases to 600J from 100J. What is the work done by the force?

A. 500J

B. 800J

C. 1000J

D. 0J

Q. 53 If a body of mass 5kg thrown from 2-meter height with K.E of 100J then its K.E before hitting the ground will be

A. 50J

B. 100J

C. 150J

D. 200J

Q. 54 A ball is released from a height h, above a table. Give that air resistance is negligible and 50% of its K.E is converted to other forms of energy at each bounce, what will be the height reached after the second bounce?

A. h/4

B. h/2

C. h/8

D. h/3

Q. 55 Momentum of a body decreases by 20%. What will be the %decrease in kinetic energy?

A. 10%

B. 36%

C. 44%

D. 54%

Q. 56 Two bodies X of mass 4 kg and Y of mass 6 kg have same linear momentum. If the K.E of Y is 48 J then K.E of body X is:

A. 48 J

B. 64 J

C. 72 J

D. 96 J

Q. 57 Two electrons are brought closer together. The potential energy of the system will be

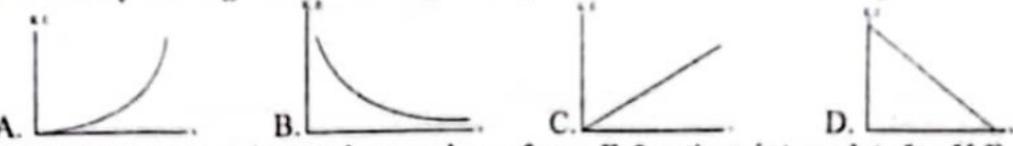
A. Zero

B. Less

C. More

D. Infinity

Q. 58 For a body moving with increasing velocity then which of the following is true?



Q. 59 A mass m at rest is acted upon by a force F for time interval t. Its K.E after t interval is:

A. $\frac{F^2t^2}{T}$

B. $\frac{F^2t^2}{5m}$

C. $\frac{F^2t^2}{2m}$

D. $\frac{Ft}{2m}$

Q. 60 A mechanical device requires 420 J of work to do 230 J of work in lifting a crate. What is the efficiency of the device?

A. 55%

B. 190%

C. 183%

D. 0.5%

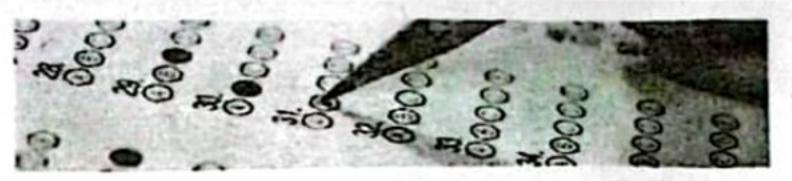




Class Test

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CHEMISTRY MDCAT

UNIT-2 (A + SERIES)

TOPI		OLICILO,
Q.1	✓ ATOMIC STRUCTURE Number of electrons with anticlockw number 18	ise spin present in an element of atomic
	A.10	B. 18
	C. 9	D. 8
Q.2	All are electromagnetic in nature except	
•	A. Gamma rays	B. Radio wave
	C. Cathode ray	D. IR rays
Q.3		25. Which of the following is correct relation
	A. X > Y	B. X = Y
	C. Y > X	D. X >> Y
Q.4	shell	ectrons, orbitals and subshell present in K
	A. 2, 1, 1	B. 1, 1, 2
	C. 2, 1, 2	D. 2, 2, 2
Q.5	Which of the following Level of energy l	has highest angular momentum
	A. M	B. L
0.0	C. K	D. N
Q.6	Hund's rule	ement cannot be explained without using
	A. Ne	B. Mg
0.7	C. F	D. O
Q.7	An element has electronic configuration A. Lose electron	1s ² 2s ² 2p ⁵ it is more likely to
	C. Gain electron	B. Donate electron D. Neither accept per depate
Q.8	Number of electrons in spherical sub-sh	D. Neither accept nor donate
Q.o	A. Half of Z of Ne	B. Three times of Z of Ne
	C. Two times of Z of Ne	D. Four times of Z of Ne
Q.9		ckwise spin that can be accommodated in 4th
4.,	energy level	
	A. 1	B. 4
	C. 9	D. 16
Q.10	Set of quantum number for 19th electron	
	A. $n = 3$ $l = 2$ $m = 0$ $s = +$	
	B. $n = 4$ $l = 0$ $m = 0$ $s = +$	
	C. $n = 3$ $l = 0$ $m = 0$ $s = -1$	7.704
	D. $n = 3$ $l = 2$ $m = +1$ $s = +$	1/2
Q.11	Electron density between 1s and 2s is	D 7000
	A. High	B. Zero D. 95 %
0 12	C. Low	29 respectively. The electronic configuration
Q.12	1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ¹⁰ is for	29 respectively. The electronic configuration
		B. 29Cu
*	A. 30Zn C. 30Zn ⁺²	D. 29Cu ⁺²
Q.13	A di-positive cation has 27 es and 65 nucle	on number. Number of neutrons in ion will be
Q.13	A. 32	B. 39
	C. 36	D. 38
Q.14	Which of the following statement is true	about mass no?
Q	A. Mass number = number of protons+ nur	
	B. Mass number = (number of protons) \times 2	
	C. Mass number = number of protons + nu	mber of neutrons
	D. Mass number = (number of neutrons) ×	
Q.15	If an ion is carrying positive charge then	which of the following must be true?
-	A. Number of proton = Number of electron	
	B. Number of proton > Number of neutron	
	C. Number of proton > Number of electron	
	D. Number of proton < Number of electron	





	400	· CHO - 2 2000		
Q.16	Which of the following order is	correct with respect to number of protons		
	A. H. > H > H	B. H* > H > H		
	C. H > H > H*	$D. H' = H = H^*$		
Q.17	CO and N2 have all the values s	imilar with one another except		
	 A. Group number of central atom 	B. Number of electron		
	C. Number of proton	D. Nucleon number		
Q.18	Mass of proton is			
	A. 1.6726 × 10 ⁻²⁷ g	B. $1.6726 \times 10^{-24} \text{Kg}$		
-	$C. 1.6726 \times 10^{-21} \text{mg}$	D. 1.6726 × 10 ⁻²⁴ mg		
Q.19	Charge on I mole of proton is			
	A. 96500C	B. +1.6022 × 10 ⁻¹⁹ C		
	C. 1.7588 × 10 ¹¹ C	D. 9.1095 × 10 ¹⁶ C		
Q.20	Which of the following ion is ise	electronic to Chlorine atom		
	A. CA	B. CH4°		
	C. O ₂	D.CO.		
Q.21	If the atomic number of an ato	m is 17 then calculate the number of orbitals having		
	esectron pairs in outer most she	11		
	A. 5	B. 3		
0.22	C. 4	D. 2		
Q.22	A. Mn . Fe	ve different electronic configuration with each other		
	C. Se ⁺³ , Ti ⁺⁴	B. Cu., VR		
Q.23		D. Cu., MM		
dian.	A photon of greater wavelength A. Greater frequency			
	C. Smaller wave number	B. Greater energy D. Greater wave number		
Q.24	The quantum of energy is called			
4.4	A. Heat	B. Sound		
	C. Wave	D. Light		
Q.25	S.I units of wave number are			
	A. m ⁻¹	B. cm ⁻¹		
	C. A*	D. nm		
Q.26		etrons in K shell, 8 electrons in L shell, 13 electrons		
	in M shell and fully filled spher	ical subshell in N shell. Identify the element		
	A. Cr	B. Mn		
	C. Sc	D.O		
Q.27	Identify the element that has greater number of electrons in spherical orbitals than number of electrons in dumbbell orbitals in its electronic configuration			
	A. Na	D. N		
0.20	s, p, d and f are spectral terms			
Q.28	A. Spherical, principal, diffused,	and the second s		
	B. Sharp, principal, diffused, fund			
	C. Sharp, principal, dispersed, fur			
	D. Sharp, principal, dumb-bell, fu			
Q.29		ue relationship between principal and azimuthal		
4.2	quantum number?			
	A. n = 1	$B, n \ge I$		
	C. n < 1	$D. n = \pm 1$		
Q.30	Number of electrons in a shell a	re determined by using		
-	A. n	B. 2n ²		
	C. n ²	D. n ² /2		
Q.31	Only subshell present in hydrid	e ion is		
	A. s-orbital	B. p-orbital		
	C. d-orbital	D. f-orbital		
Q.32		magnesium is given below 12Mg = 1s2 2s2 2p4 3s2		
	_	in a p-orbital of magnesium is/are		
	A. 2	B. 4		
	C. 6	D. 8		
Q.33	A n = 3	aber for valance electron of Hydrogen atom is		
	A. n = 3 1 = 2 m = 0 B. n = 1 1 = 0 m = 0	s = +1/2		
	C. n = 3 $l = 2$ $m = 0$	s = +1/2 s = -1/2		
	D. n = 3 1=2 m=+1	s = +1/2		
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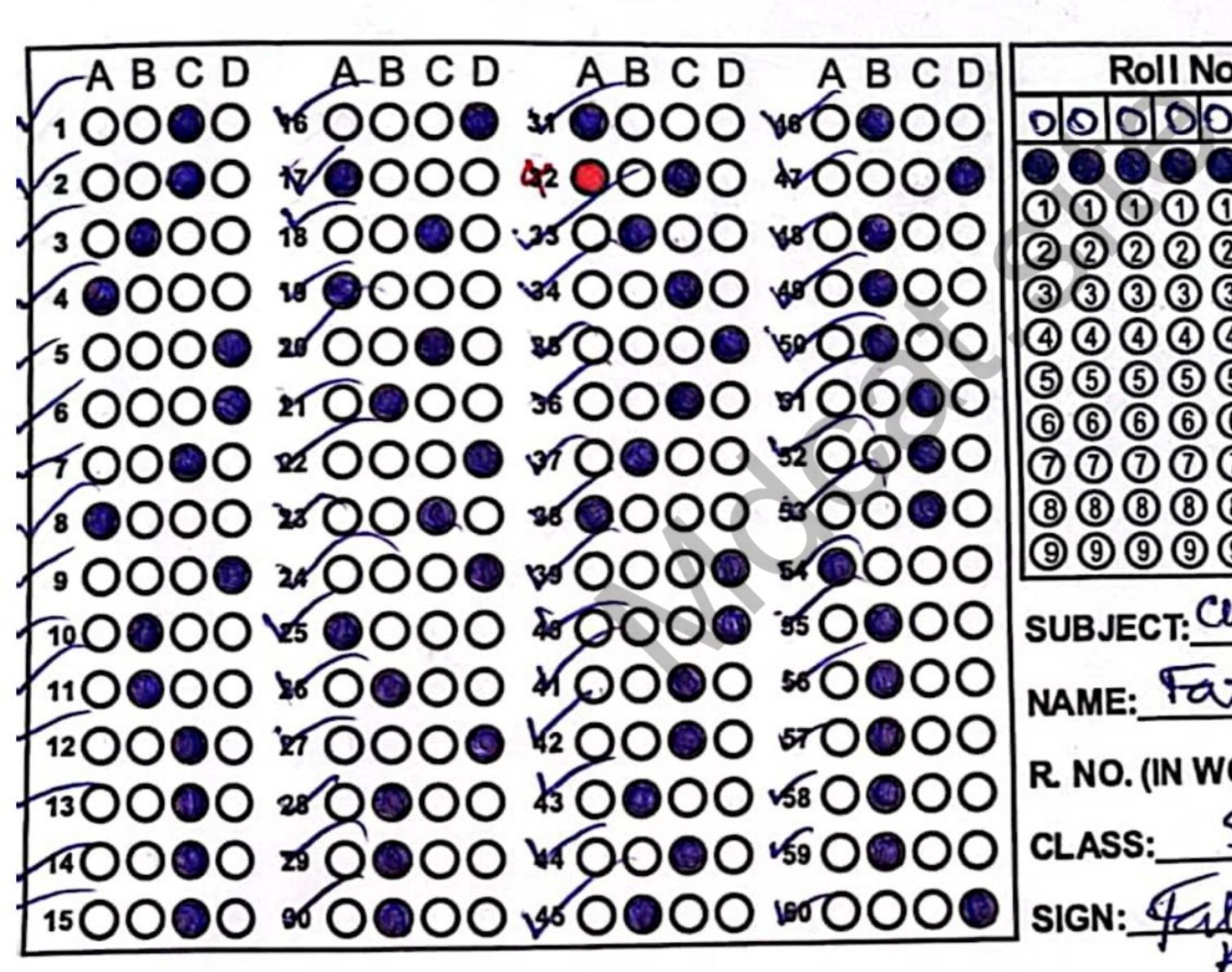
Q.34	Minimum number of electrons in	
	A. 22Ti	B. 23V
	C. 24Cr	D. 25Mn
Q.35	Electron will be placed first in	
	A. 7s	В. 6р
	C. 5d	D. 4f
Q.36	The total number of electrons in	av a
	A. 1	B. 2
	C. 5	D. 10
Q.37	How many orbitals having electron	ns will be present in an atom with atomic number 29?
	A. 10	B. 15
	C. 20	D. 29
Q.38	Number of electrons in the subsh	ell can be determined by using formula
•	A. 2(21+1)	B. 2n ²
	C. n ²	D. 2/ + 1
Q.39	The electrons in Helium can be di	istinguished by
•	A. Principal quantum number	B. Azimuthal quantum number
	C. Magnetic quantum number	D. Spin quantum number
Q.40	The probability of finding an elec	
Q	A. 1%	B. 5%
	C. 95%	D. 0%
Q.41	2p and 3p subshells may have sam	ie .
****	A. Energy	B. Size
	C. Number of electron	D. Principal quantum number
Q.42	Atoms of two different elements l	having same nucleon number but different proton
•	number are called	
	A. Isotopes	B. Isotones
	C. Isobars	D. Isoelectronic
Q.43	An unknown element having elect	ronic configuration [Ne] 3s2, 3p3 can form
	A. Uni-negative ion	B. Tri-Negative ion
	C. Di-Positive ion	D. Uni-Positive ion
Q.44	The quantum number expl	lains the shapes of orbitals
	A. Principal	B. Magnetic
	C. Azimuthal	D. Spin .
Q.45	Which of the following violates Hu	
	A. $1s^2$, $2s^2$, $2p_x^1$, $2p_y^1$, $2pz^0$	B. 1s ² , 2s ² , 2p _x ² , 2p _y ⁰ 2p _z ⁰
	C. $1s^2$, $2s^2$, $2p_x^2$, $2p_y^2$, $2pz^2$	D. 1s ² , 2s ¹
Q.46	The number of unpaired electrons	in the carbon atom in ground state
	A. 4	B. 2
	C. 3	D. 1
Q.47	The charge on proton is	
	A1.6 × 10 ⁻³¹ C	B. 1.6×10^{-31} C
	C1.6 x 10 ⁻¹⁹ C	$D. +1.6 \times 10^{-19}C$
Q.48	The isotone of C-14 is	
	A. 14 N	B. 16O
	C. "B	D. 20 Ne
Q.49		10
4.43	M-shell contain A. S	D e n d
	C. S, p, d, f	B. s, p, d D. s, p
	o. o, p, u, 1	C. 3, P





Q.50	Total no. of electrons that can be a	ccommodated in f-subshell
	A. 6	B. 14
	C. 10 ·	D. 18
Q.51	Positive rays are also known as	
	A. X rays	B. Gamma rays
	C. Canal rays	D. Cathode rays
Q.52	Which has greater energy according	ig to principle (n + l)
•	A. 5d	B. 4f
	C. 7s	D. 6p
Q.53	How do the 'p' orbitals p1, py, pz di	ffer from each other
	A. Size	B. Shape
	C. Orientation	D. Capacity
Q.54	An element carrying -1 charge co	ontain 10es and 19 nucleon number. Number of
	neutrons will be	
	A. 10	B. 9
	C. 19	D. 8
Q.55	Electrons should be filled in energ	y subshells in order of increasing energy value, so
	electrons will first place in 1s, 2s, 2	
	A. Pauli's Exclusion Principle	B. Aufbau principle
	C. Hund's rule	D. Moseley's rule
Q.56	When azimuthal quantum number	/=2, then 'm' can have values
	A. 3	B. 5
	C. 7	D. 9
Q.57	How many unpaired electrons are	there in Mn+5 (atomic number = 25)?
	A. 0	B. 2
	C. 4	D. 8
Q.58	If wavelength is decreased two ti	mes or frequency increased two times or wave
	number increased two times then e	
	A. Increase four	B. Increase two
	C. Decrease two	D. Remain same
Q.59	Maximum number of electrons in a	subshell can be calculated by the formula
	A. 2 ℓ +1	B. 2 (2 \(\ell + 1 \)
	C. 2(2 (-1)	D. ℓ+2
Q.60	Which orbital correctly represents	the last electron in the element of VII-A group
	and 3rd period	
		n o
		(1)
	A. 34	B. 2p
	•	(i)
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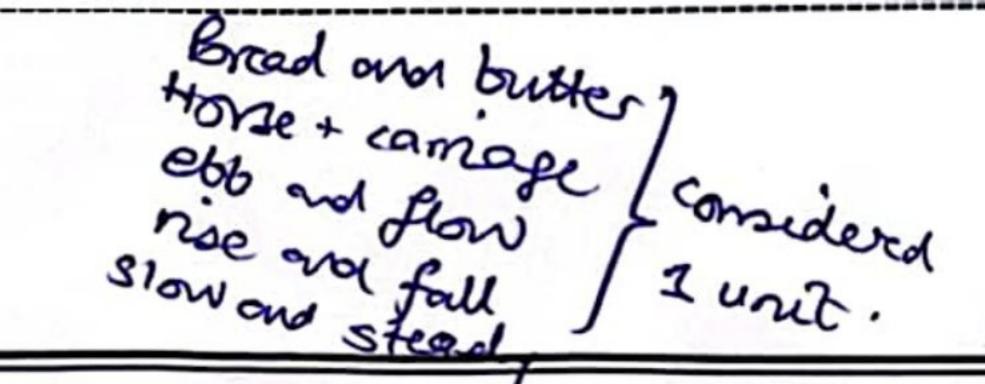
TEST-2 (A+ SERIES)

TOPIC	CUDIFCT-VERRACE	REEMENT AND VOC	ABULARY (1-25)				
Direct		KEEMENT AND TOO	ADOLANIC (*)				
Direct	Fill in the Blank						
Q.1		rove anything you wan	t them to.				
۷	A. has	B. have	C. is	D. are			
Q.2		re interested in the boo	k to be lawyers.				
4	A. has seemed	B. seems	C. seem	D. was seemed			
Q.3		lsto open a travel a	gency.				
4	A. plan	B. plans	C. is going to plan	D. has plan			
Q.4			velve parties competing fo	or power.			
•	A.is	B. are	C. have	D. was			
Q.5	Recent government statistics a sharp decline in crime.						
1	A. was showed	B. has showed	C. show	D. shows			
Q.6		olanworrying inves					
	A. were	B. was	C. is	D. has			
Q.7	An early analysis of th	e results that the S	Socialists have won.				
	A. is	B. are	C. were	D. has			
Q.8	I don't think any of themme.						
	A. know	B. knows	C. was known	D. were known			
Q.9	Five hundred square t	ceton to the house					
	A. has been added	B. have been added	C. was added	D. is added			
Q.10	About three metres _	the runners in first a	nd second places.				
	A. have separated	B. is separated	C. separates	D. separate			
Directi							
	Spot the Error						
Q.11	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그		ed in the previous section	allows (C) us to speculate on			
	problems that learner						
	A. which	B. have been	C. allows	D. encounter			
Q.12		irection, mapped out(B)	by his parents, that run(C	c) counter to all of his interests			
	and abilities.(D)			D. M. International about			
	A. is following	B. mapped out	C. run	D. his interests and abilities			
Q.13			nearly always raw materi	al which(C) is(D) much more			
	subject to price fluctu	4607	C. which	D. is			
Q.14	A. exports The most important of	B, are					
Q.14	The most important and the most difficult thing to achieve (A) are(B) a desire among (C)individuals to limit(D) the size of the family.						
	A. to achieve	B. are	C. among	D. to limit			
Q.15							
2	There is (A) a goodly number of undergraduates whose (B) heads are turned(C) and whose judgement is perverted(C) by athletic sports.						
	A. is B. whose C. are turned D. is perverted						
Q.16			int out(C) what is the mat				
•	A. All that		C. are to point out	D. what is the matter			
Q.17	The vegetables that (A) the old man grew (B) in his secret garden was(C) better flavored (D) because						
	of the sunshine in the	of the sunshine in the clearing.					
	A. that	B. grew	C. was	D. flavoured			
Q.18			eather which(B) were(C) fa	avourable for the green things			
77	but(D) not for wheat.						
	A. discussed	B. which	C. were	D. but			
Q.19				g employed(D) by the experts.			
	A. were B. which C. was D. employed . That two-thirds of younger couples feel (A) they(B) have done(C) a good job of supporting each other						
Q.20		inger couples leel (A) th	icy(B) have done(C) a good	1 Job of supporting each other			
	are(D) encouraging.	B. they	C. have done	D area			
Direct	A. feel	D. they	C. Have done	D. are			
Direct	Choose the correct Of	otion					
Q.21	Choose the correct of						
	A. Each of the winners	receives a scholarship an	d a trophy.				
	B. Each of the winners receive a scholarship and a trophy.						
	C. Each of the winners	have received a scholarsh	ip and a trophy.				
	D. Each of the winners	was receive a scholarship	and a trophy.				



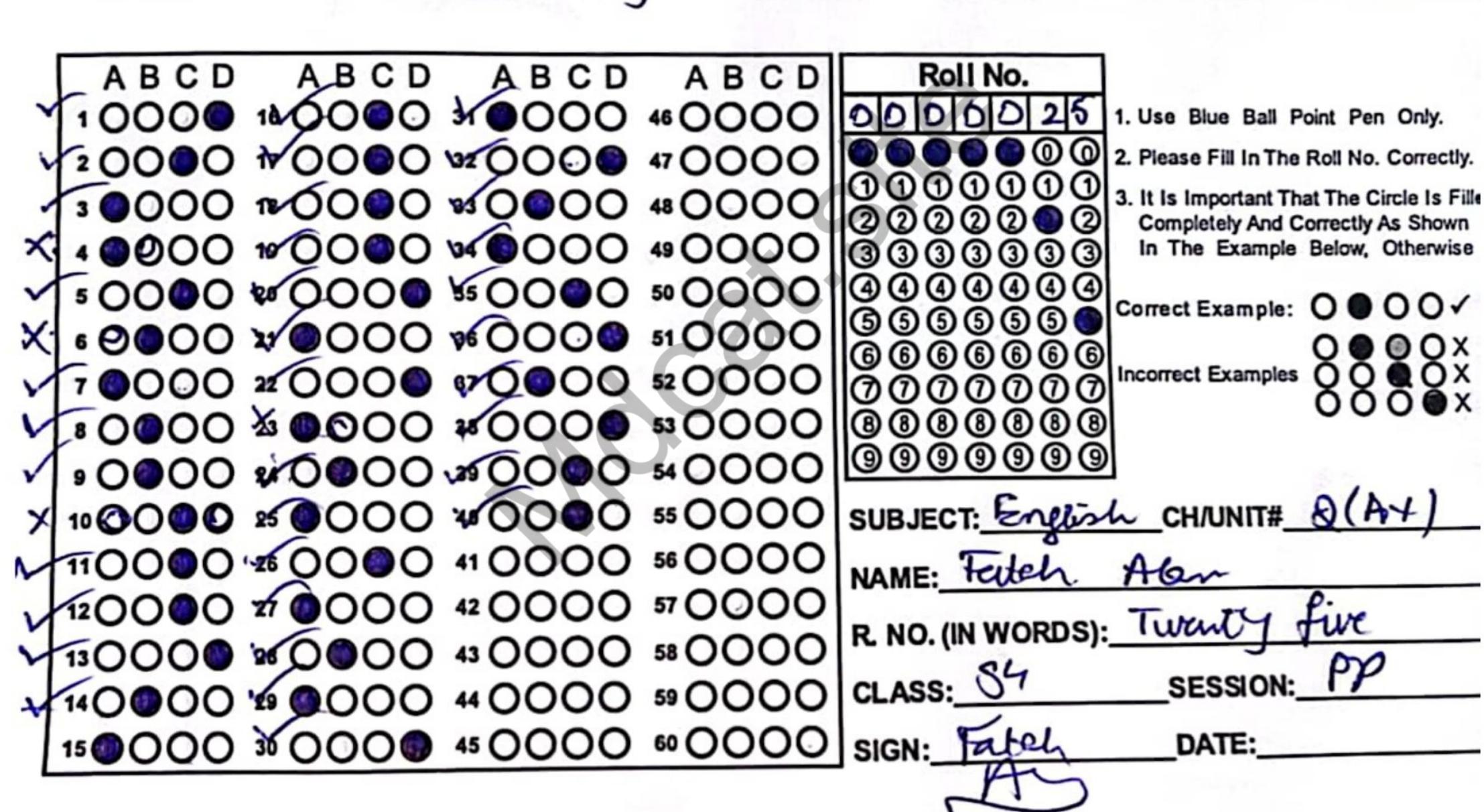


Q.22	A. Every one of the prison	ns are full.	B. Every one of the prise D. Every one of the prise				
	C. Every one of the prison	ns have full.	D. Livery one of the pris	ons is full.			
Q.23		b i' Con conno	etion				
	A. Knowledge and wisdom has no time for connection. B. Knowledge and wisdom have no time for connection.						
	C. Knowledge and wisdo						
rana y	D. Knowledge and wisdo	m were no time for conn	ection.				
Q.24							
	A. Age and experience br		 B. Age and experience b 				
	C. Age or experience brir	ng wisdom to man.	D. Age and experience l	has brought wisdom to man			
Q.25							
	A. Here come the two far	mous stars from that mov	rie.				
	B. Here comes the two famous stars from that movie.						
	C. Here has come the two famous stars from that movie.						
	D. Here had came the two famous stars from that movie.						
Q.26	D. Here mad came the tw	o ramous stars from that	movic.				
4.20	A Come of the						
	A. Some of the grapes in our local market has come from Mexico.						
	3. Some of the grapes in our local market comes from Mexico.						
	C. Some of the grapes in our local market come from Mexico.						
20.00	D. Some of the grapes in	our local market is com	ing from Mexico.				
Q.27							
	A. Twenty dollars is not	a lot of money these day	S				
	B. Twenty dollars are no	B. Twenty dollars are not a lot of money these days.					
	C. Twenty dollars is requ	C. Twenty dollars is required to spend on this project.					
	D. Twenty dollars has be	een required to spend on	this project				
Q.28	Di Tirani, Tonara nas di	cen required to spend on	ans project.				
40	A This singer along wi	th a Cour others when the	hammanian on stage				
	A. This singer, along wi	th a few others, play the	harmonica on stage,				
	B. This singer, along with a few others, plays the harmonica on stage. C. This singer and a few others plays the harmonica on stage.						
0.00	D. This singer, together	with a few others, have p	layed the harmonica on stage				
Q.29				to the second teday			
	A. Bread and butter is w			hat the poor needs today.			
	C. Bread and butter is wh	at the poor was needed for	day. D. Bread and butter is w	hat the poor needing today			
Q.30							
	A. Did he realise little th	he danger did he faced?	B. Little did he realise t				
	C. Little he realised the	danger he faced.	D. Little did he realise t	he danger he faced.			
Direct	ons:						
	Choose the Correct SY	NONYM		•			
Q.31	APPALLING						
	A. Shocking	B. Fascinating	C. Astonished	D. Detached			
Q.32	ANXITIES						
4.02	A. Indifference	B. Measured	C. underscored	D. Consternation			
Q.33	BOON	D. Measures	G. a				
Q.33		B. Success	C. Illumination	D. Analyzed			
	A. Detriment	n. auccess	C. Indimination	D. Many 244			
Q.34	BAFFLING	D. Callabanian	C Patieina	D. Gesticulating			
	A. Beguiling	B. Enlightening	C. Retiring	D. Oesticulating			
Q.35	CREDENTIAL		O Testimentale	D Innovenie			
	A. Disapproval	B. Commodious	C. Testimonials	D. Ingenuous			
Direct							
	Choose the Correct Al	NTONYM					
Q.36	COAXED		2				
-	A. Cajole	B. Provoke	C. Hamper	D. Constrain			
Direct	ions:						
	Choose the best word	with respect to the giver	context.				
Q.37	The finance secretary	· · · · · · · · · · · · · · · · · · ·	he was dismissed.				
4.0.	A. misplaced, soon	B. misappropriated, se		D. continued; for			
Q.38	There was a multi-car	accident on the highwa					
Q.50		B. safety	C. legislation	D. standstill			
0.30	A. management	race because they had tr					
Q.39		B. swiftly	C. diligently	D. abruptly			
Direct	A. briskly	D. Swilling	Jg				
Direc		FLLING					
Q.40	Choose the correct SP	ELLING					
Q.40	A. Milleneum	B. Mellenium	C. Millennium	D. Millenium			



PREPARATIONS





TEST DISSCUSSION CTS 9th August, 23, Wednesday

T-2 (A+ series) English 2-statics - accademic subj - singular 3- A couple - may sing or plural 4- politics - for country -plusal 15- A number-plural - relative pronugan verb 34- gesticulating - gesti T-2 (A+ series) Biology T-2 (A+ series) Physics
Distance covered by freely falling body in 5 sec? S = 1/2 9t2 Distance covered by freely falling body during 2ndth second? Sn = 5(2n-1)(F.d + mg) P= mg/t W = change in K.E

Dawsing W= (wsino)d

38- pole vault-+ mv2 = mgh magnetic - non-conservative Grelocity dependend W= AK.E K.E + P.E = K.E 56- Ex -mx
Ey my T-2 (A+ series) Chemistry 8- Na = 152,252,2p6,135 719the-10- 152,252,2p6,357, 3p6,(45),3d5 n=4 l=0 m=0 s=+/2 13- Total e's= Given e's + Change = 27+2 = 29

1 X FX V X E H n=1 l=0 m=0 s=+1/2 35- 4F ->5d ->6p ->75 4- in Total e's = given e's + charge 10 neutron = 10 -+ (-1) -9 $=\frac{100t(-1)=9}{100t}$