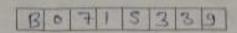
## **ENTRANCE EXAMINATION - 2019**

SET-C

ROLL NO.

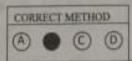


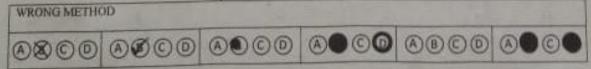
Signature of Invigilator

TIME :1 HOUR 45 MINUTES Total Marks : 100

## Instructions to Candidates

- 1. Do not write your name or put any other mark of identification anywhere in the OMR Response Sheet. IF ANY MARK OF IDENTIFICATIONS IS DISCOVERED ANYWHERE IN OMR RESPONSE SHEET, the OMR sheet will be cancelled, and will not be evaluated.
- 2. This Question Booklet contains the cover page and a total of 100 Multiple Choice Questions of 1 mark each.
- Space for rough work has been provided at the beginning and end. Available space on each page may also be used for rough work.
- 4. There is negative marking in Multiple Choice Questions. For each wrong answer, 0.25 marks will be deducted.
- USE/POSSESSION OF ELECTRONIC GADGETS LIKE MOBILE PHONE, iPhone, iPad, page ETC. is strictly PROHIBITED.
- 6. Candidate should check the serial order of questions at the beginning of the test. If any question is found missing in the serial order, it should be immediately brought to the notice of the Invigilator. No pages should be torn out from this question booklet.
- Answers must be marked in the OMR response sheet which is provided separately. OMR Response sheet must be handed over to the invigilator before you leave the seat.
- The OMR response sheet should not be folded or wrinkled. The folded or wrinkled OMR/Response Sheet will not be evaluated.
- Write your Roll Number in the appropriate space (above) and on the OMR Response Sheet. Any other details, if asked for, should be written only in the space provided.
- 10. There are four options to each question marked A, B, C and D. Select one of the most appropriate options and fill up the corresponding oval/circle in the OMR Response Sheet provided to you. The correct procedure for filling up the OMR Response Sheet is mentioned below.
- Use Black or Blue Ball Pen only for filling the ovals/circles in OMR Response Sheet. Darken the selected oval/circle completely. If the correct answer is 'B', the corresponding aval/circle should be completely filled and darkened as shown below.





	A	highly electronegative. What type of bond is present between XY?
	is i	nightly electronegative. What type of books is present
	-A	fonic bond
	B.	Covalent bond
	C	Metallic bond
	D.	
	1999	
2.	Non	mber of NaCl molecules present in the per unit cell of rock-salt is
-	A.	moet of react molecules present at the per
	B.	1
		6
	C	2
	D.	1
	400	
3.	The	molecular formula of cyclohexane is
	A.	C <sub>6</sub> H <sub>12</sub>
	B.	$C_2H_{14}$
	C	C <sub>6</sub> H <sub>10</sub>
	D.	C <sub>6</sub> H <sub>13</sub>
4.	While	th of the following solutions is most basic in nature?
	A.	Solution A with pH = 8
	B.	Solution B with pH = 9
	C	Solution C with pH = 10
	D.	Solution D with pH = 6
		Section D with pri - o
5.	Hube	idisation of N in NH <sub>3</sub> is
	A.	MINISTER OF N III N/13, 15
	B.	TP'
		m <sup>2</sup>
	C	9
	D.	Both sp <sup>3</sup> and sp <sup>2</sup>
6.	Total	number of spectral lines present in visible region during transition from 2 <sup>nd</sup>
	excite	d state to 5 <sup>th</sup> excited state in hydrogen atom is
	A.	2
	B.	6
	C.	0
	D.	
	200	
7.	The ho	and annually of the transfer o
** 1	The ou	nd energies of H-H, Br-Br and HBr are 433, 192 and 365 kJ/mol respectively.
		THE PARTY OF THE P
- 1	rs.	+20 KJ
	3.	-105 kJ
(	4.	-26 kJ
	).	+105 kJ
-		
D ARMS	200	
B-07/SE1	10	2

8.		mointy of solution obtained by mixing 750ml of 0.500 feet with a 550ml					
		will be 0.875 M					
	A. B.	1.0 M					
	C.	1.75 M					
	D.	0.975 M					
9.	In 'E	coRI', what does 'R' stand for?					
	A.	Bacterial strain					
	B.	Restriction endonuclease enzyme					
	C.	Replication site					
	D.	Recombinant DNA					
10.	Whi	ch of the following will be expressed only in homozygous condition?					
10000	A.	Phenyl ketonuria					
	B.	Thalassemia					
	C.	Yellow colour of pod					
	D.	All of these					
11.		ch of the following molecule will not be produced during fermentation?					
	A.	H <sub>2</sub> O					
	B.	CO <sub>2</sub>					
	C.	Ethanol					
	D.	Lactic acid					
12.	Ane	An example of multiple gene is					
100	A.	Human blood group					
	B.	Human skin colour					
	C.	Phenyl ketonuria					
	D.	Albinism					
13.	How	many nullisomy are possible if an organism has 24 chromosomes in som	ntie ee	11.2			
13,		24					
	Α.						
	В.	12					
	C,	6					
	D.	3					
14.	Selec	the odd one out w.r.t. nitrogen fixation.					
	A.	Nostoc, Anabaena					
	B.	Rhizobium, Azotobacter					
	C.	Agrobacterium, Pseudomonas					
		Clostridium, Rhizobium					
	D.	Ciosmann, ranzonan					
15.	In ske	letal muscle, each thick myofilament is surrounded by thin my	yofilar	nents			
2235	while	each thin myofilament is surrounded by thick myofilaments.					
	A.	Two, four					
	B.	Six, three					
	C.	Three, six					
	D.	Four, two					

16	B. Argemone C. Brassion
17	A. SS rRNA B. 18S rRNA C. 23S rRNA
18.	deaminase (ADA) deficiency?  A. Gene therapy  B. Chemotherapy  C. Immunotherapy  D. Radiation therapy
19.	Which of the following is a sexually transmitted bacterial disease?  A. Syphilis B. Warts C. AIDS D. Typhoid
0.	Phytoplankton → Snail → Tuna → Dolphin In the above food chain, if 1 J of energy is available to the secondary consumer then, how much energy was assimilated by the producers?  A. 100 J  B. 10 J  C. 1000 J  D. 0.1 J
1.	Enzymes which catalyse linking of C-O, C-S, C-N, P-O etc bonds, belong to which of the following category?  A. Isomerase  B. Ligases  C. Lyases  D. Transferases
2.	During urine formation, in which part of nephron, maximum reabsorption of water takes place?  A. DCT B. PCT C. Glomerulus D. Loop of Henle
3	Number of meiotic divisions required to produce 500 pollen grains is  A. 100  B. 125  C. 500  D. 1000

- 2	14.	n genetic ringer printing, the probe refers to
	A	A radioactively labelled single stranded RNA molecule
		A radioactively labelled single stranded DNA molecule
		A radioactively labelled double stranded RNA molecule
	I	A radioactively labelled double stranded DNA molecule
- 2	5. It	crop improvement programmes, virus free clones can be obtained through
	A	. Hybridization
	В	
	C	
	D	
2	6. P	yruvate dehydrogenase complex, needed for the conversion of pyruvic acid to acetyl-
	C	oA is located in
	A	MERCEL MERCEL AT A TOTAL CONTROL OF THE PROPERTY OF THE PROPER
	В	. Matrix of mitochondria
	C	CONTRACTOR OF CO
	Đ	
2	7. D	
		uring nerve impulse conduction, hyperpolarisation occurs due to Influx of Ca <sup>++</sup> and efflux of Na <sup>+</sup>
	B	
	C	
	D	
24		
43	3. W	hich of the following factors can affect the enzymatic activity? A. Change in
	te	imperature B. Change in pH C. Change in substrate concentration D. Binding of
		ecific chemical to enzyme
	A.	
	B. C.	CONTRACTOR
	D.	127/70/20
	1/4	B, C, D
29.		r its activity, carboxypeptidase requires
	A.	Zinc
	B.	fron
	C.	Niacin
	D.	Copper
30.	Hoy	w many organisms in the list given below are autotrophs? Lactobacillus, Nostoc,
	. Chu	ra, Nitrosomonas, Nitrobacter, Streptomyces, Sacharomyces, Trypansoma,
	Por	phyra, Wolfla
	A.	Four
	B.	Five
	C.	Six
	D.	Three
24		
31.		ch one of the following pairs of chemical substances, is correctly categorised?
	A.	Calcitonin and thymosin - Thyroid hormones
	B.	Pepsin and prolactin - Two digestive enzymes secreted in stomach
	C.	Troponin and myosin - Complex proteins in striated muscles
	D.	Secretin and rhodopsin – polypeptide hormones

32.	The d	tomestic sewage in large cities  Has a high BOD as it containing both aerobic and anaerobic bacteria  Is processed by aerobic and then anaerobic bacteria in the secondary treatment  Is processed by aerobic and then anaerobic bacteria in the secondary treatment  Is processed by aerobic and then anaerobic bacteria in the secondary treatment  Is processed by aerobic and then anaerobic bacteria in the secondary treatment  Is processed by aerobic and then anaerobic bacteria in the secondary treatment  Is processed by aerobic and then anaerobic bacteria in the secondary treatment  Is processed by aerobic and then anaerobic bacteria in the secondary treatment  Is processed by aerobic and then anaerobic bacteria in the secondary treatment  Is processed by aerobic and then anaerobic bacteria in the secondary treatment  Is processed by aerobic and then anaerobic bacteria in the secondary treatment  Is processed by aerobic and then anaerobic bacteria in the secondary treatment  Is processed by aerobic and then anaerobic bacteria in the secondary treatment  Is processed by aerobic and then anaerobic bacteria in the secondary treatment because the secondary treatment by the se			
	B	Is processed by acrook plants (STPs)			
		Is processed by across (STPs) in Sewage Treatment Plants (STPs) in Sewage Treatment Plants (STPs) when treated in STPs does not really require the acration step as the sewage			
	C.	contains adequate exygen			
		the state of the s			
	D.	Has very man disorder, leading			
22		Has very nigh announced to be a second of the blood cells, whose reduction in number can cause clotting disorder, leading the blood cells, whose reduction in number can cause clotting disorder, leading the blood cells, whose reduction in number can cause clotting disorder, leading			
33.	Name	essive loss of blood from the body.			
	A.	Erythrocytes			
	B.	Legeocytes			
	C.	Neutrophils			
	100	Thinnibooxies			
	20.	and the DNA			
34.	DNA-	dependent RNA polymerase catalyses transcription on one strand of the DNA			
271	which	is called the			
	Α.	Template strand			
	B.	Coding strand			
	C.	Alpha strand			
	D.	Anti strand			
-	-	g cell growth, DNA synthesis takes place in			
35.		S phase			
	A.	GI phase			
	B.	G, phase			
	C. D.	M phase			
	4.5.	in priore			
36.	Choo	ie the correct statement.			
170000	A-	All mammals are viviparous.			
	B.	All cyclostomes do not possess jaws and paired fins.			
	C.	all motiles have a three-chambered near.			
	D.	All Pisces have gills covered by an operculum			
37.	The l	The half-life of a radioactive substance is 30 minutes. The time (in minutes) taken			
	The half-life of a radioactive substance is between 40% decay and 85% decay of the same radioactive substance is				
	Α.	15			
	В.	30			
	C	45			
	D.	60			

A person can see clearly objects only when they lie between 50 cm and 400 cm from his eyes. In order to increase the maximum distance of distinct vision to infinity, the 38. type and power of the correcting lens, the person has to use, will be

A. Convex, +2.25 diopter

Concave, -0.25 diopter B.

Concave, -0.2 diopter C

Convex, +0.15 diopter D.

- 39. A filament bulb (500 W,100 V) is to be used in a 230 V main supply. When a resistance-R is connected in series, it works perfectly and the bulb consumes 500 W. 26 B. C. 46 13 D. 40. Potentiometer is an accurate and versatile device to make electrical measurements of A Cells B. Potential gradients A condition of no current flow through the galvanometer C. A combination of cells, galvanometer and resistances D. The Magnetic Susceptibility is negative for Ferromagnetic material only Paramagnetic and Ferromagnetic materials B. C. Diamagnetic material only D. Paramagnetic material only A Refrigerator works between 4°C and 30°C. It is required to remove 600 calories of heat every second in order to keep the temperature of refrigerated space constant, the power required is A. 236.5 W B. 2365 W C. 2.365 W D. 23.65 W When I Kg of ice at 0°C melts, the resulting change in its entropy be, taking latent heat of ice to be 80 cal/°C A. 273 cal/K 8x104 cal/K B. C. 80 cal/K 293 cal/K D. 44. A current of 2 A flows through a 2 Ω resistor when connected across a battery. The same battery supplies a current of 0.5 A when connected across a 9 \Omega resistor. The internal resistance of the battery is A 0.5 \Q 1/3 D B. 1/4 0 C.
- 45. An Engine pumps water through a hose pipe. Water passes through a pipe and leaves it with a velocity of 2m/s. The mass per unit length of water in the pipe is 100kg/m. What is the power of the engine?
  - A. 400 W
  - B. 200 W
  - C. 100 W
  - D. 800 W.

	46.	Ac	ommon emitter amplifier has a voltage gain of 50, an input impedance of 100 $\Omega$ as
	7	nn s	sinmon emitter amplifier has a votage gain in the amplifier is utput impedance of 200 Ω. The Power gain in the amplifier is
		A	500
		B.	1000
		C	1250
		D.	50
4	17.	For	Satellite moving in an orbit around the earth, the ratio of kinetic energy in the energy is
		A	1/2
		B.	1/√2
		C.	2
		D	√2
41		reflec	r is moving towards a high cliff. The driver sounds a horn of frequency f. The ted sound heard by the driver has the frequency 2f. If v is the velocity of sound he velocity of the car, in the same velocity units will be $v/\sqrt{2}$
		B.	v/3
		C.	V/4
		D.	v/2
		UF,	The state of the s
49.	-	The er	rth is Flattened at the poles and bulges at the equator, This is due the fact that
		1	The earth revolves around the sun in an elliptical orbit
			The angular velocity of spinning about its axis is more at the equator
	C		The centrifugal force is more at the equator than at the poles
	D	17	None of these
50.	Id	entif	the wrong statement
	A		For Isothermal process, $\Delta T=0$
	B		For Isochoric process, $\Delta V=0$
	č		For leabade ways A.D. o
	D		For isobaric process, ΔP=0 For cyclic process, ΔW=0
	20		ror cyclic process, Aw=0
51.	A 15	Conc	ave mirror has a focal length of 5cm, when an object is placed at a distance of the mirror, where is the image formed?
	A.		10 cm in front of the mirror
	B.		7.5 cm behind the mirror
	C		2.5 cm in General Col.
	D.		2.5 cm in front of the mirror
	D.		7.5 cm in front of the mirror
52.	A. B. C.	553 555 5556	81
	U.	5565	0.1

- $4^{10} + 4^{12} + 4^{10} + 4^{10}$  is divisible by

  - 10 B.
  - 11 C
  - D. -13
- The sum of two numbers is 2000 and their LCM is 21879. The nos. are
  - 1993,7
  - B. 1991,0
  - C. 1989,11
  - D. 1987,13
- A man plants 15376 apple trees in his garden and arranges them so that there are as many rows as there are apple trees in each row. The number of rows are
  - 124
  - B. 126
  - C. 134
  - D. 144
- When a ball bounces it rises to of the height from which it fell. If the ball is dropped from 32 m, how high it will rise at the third bounce?
  - 13 m
  - 135 m
  - $14\frac{1}{2}$  m
  - None of these
- 57. A tank is a full. When 16 litres of water is added to it, it becomes a full. The capacity of the tank is
  - A. 28 litres
  - 32 litres B
  - 35 litres
  - D. 42 litres
- What is the smallest number by which 3500 should be divided to make it a perfect 58. cube?
  - 0 A.
  - B. 50
  - C. 300
  - D. 450
- The average age of students of a class is 15.8 years. The average age of boys in the class is 16.4 years and the average age of girls is 15.4. The ratio of number of boys to the number of girls in the class is
  - 1:2
  - 2:3 B.
  - C. 3:4
  - D. 3:5

64	1.	A ro	duction of 21% in the price of wheat enables a person to buy 10.5 kg more for 00. What is the reduced price per kg?
			Rs. 2
		A. B.	Rs. 2.25
		C.	Rs. 2.30
		D.	Rs. 2.50
61.	3	ame v	on working 8 hours a day complete a piece of work in 10 days. To complete the work in 8 days working 15 hours a day, the number men required is
		3.	5
		-	6
		5.	8
	•		
52.	V	Vhich	of the following statements is incorrect?
	A		Rolling Friction is smaller than Sliding Friction
			Limiting value of static friction is directly proportional to normal reaction
	C		Frictional force opposes the relative motion
	D		Coefficient of sliding friction has dimensions of length
3.	in	this	ng fork is used to produce resonance in a glass tube, the length of the air column tube can be adjusted by a variable piston. At room temperature of 27°C two ive resonances are produced at 20cm and 73cm of column length. If the cy of the tuning fork is 320Hz, the velocity of sound in air at 27°C is
	A.		330 ms <sup>-1</sup>
	B.		339 ms <sup>-1</sup>
	C.		350 ms <sup>-1</sup>
	D.		300 ms <sup>-1</sup>
8	nu	clei, t	adioactive material half-life is 10 minutes. If initially there are 600 number of he time taken in minutes for the disintegration of 450 nuclei is
	A.		20
	B.		10
	C.		17.5
	D.		15
	If tim	he Mi es lar	ass of the sun were 10 times smaller and the universal Gravitational constant 10 ger in magnitude, which of the following is not correct?  Raindrops will fall faster
	B.		Walking on the ground will become more difficult
	C.		Time period of the simple negatives and
	D.		Time period of the simple pendulum on the earth would decrease g on the earth will not change
7	The	heigh	ht at which the weight of a body becomes 1/16th of its weight on the surface of
		100,000	flus R), is
		5R	
		15 P	
0	4	3R	
E	).	4R	

10

65.

66.

B-07/SET C

- Which one of the following represents a palindromic sequence in DNA? 5' - GAATTC -3' A
  - 3'-CTTAAG-5'
  - 5' CCAATG 3' B
    - 3' CAATCC 5'
  - 5' CATTAG 3' C
    - 3' GATAAC 5'
  - D. 5' - GATACC - 3'
    - 3' CCTAAG 5'
- Which of the following is the correct matching of a vitamin, its nature and its deficiency disease?
  - Vitamin K Fat Soluble Beri-Beri
  - Vitamin A Fat Soluble Night Blindness
  - D. Vitamin A - Fat Soluble - Beri-Beri
  - E Vitamin K - Water Soluble - Pellagra
- 69. The Following ratio is generally constant for a given species:
  - A+G/C+T
  - B. T+C/G+A
  - C G+C/A+T
  - D. A+C/T+G
- Anthesis is a phenomenon which refers to
  - Reception of Pollen by stigma A.
  - B. Formation of Pollen
  - C Development of Anther
  - D. Opening of Flower Bud
- 71. Which one of the following pairs is wrongly matched?
  - A. Ginkgo - Archegonia
  - B. Salvinia - Prothallus
  - C. Viroids - RNA
  - D. Mustard -Synergids
- 72. Which one of the following structures is an organelle within an organelle?
  - Ribosome A.
  - B. Peroxisome
  - C. FR
  - D. Mesosome
- 73. For its action, nitrogenase requires
  - A. High input of energy
  - B. Light
  - Mn2+ C.
  - D. Super oxygen radicals

200	Course	ta is an example of Ectoparasitism
74-	Care	Ectoparasitism
	A. B.	prood partitions
	200	Predation
	D.	Endoparasitism
	100000	Endoparasitism  of the following activities center is not located in medulla of human brain?
75.	Which	Swallowing
	A.	Vomiting
	B.	Sneezing
	C	Thirst
	D.	samplementary RNA molecule to prevent mRNA
76.	The pr	Thirst ocess that involves the use of a complementary RNA molecule to prevent mRNA ocess that involves the use of a complementary RNA molecule to prevent mRNA ocess that involves the use of a complementary RNA molecule to prevent mRNA ocess that involves the use of a complementary RNA molecule to prevent mRNA ocess that involves the use of a complementary RNA molecule to prevent mRNA ocess that involves the use of a complementary RNA molecule to prevent mRNA ocess that involves the use of a complementary RNA molecule to prevent mRNA ocess that involves the use of a complementary RNA molecule to prevent mRNA ocess that involves the use of a complementary representation of a gene is
70.	molect	iles from taking part in translation decrees
	A.	ELISA
	B.	Spooling
	C.	Elistian.
	D.	RNA interference
		Luces organ is
77.	A male	bird with copulatory organ is
	A.	Continocomeina
	B.	Coraciousbengalensis
	C.	Columba livia Pavocristatus
	D.	
22	****	of the following is not seen in first triploblastic animals?
78.		Bilateral symmetry
	Α.	Ladder like nervous system
	B.	Gut with mouth and anus
	C.	Moderate cephalization
	D.	
-	40	nogen is converted into trypsin by an enzyme
79.		Carboxy peptidase
	A.	Rennin
	B.	Enterokinase
	C.	Chymotrypsinogen
	D.	Chymotypsinogen
80.	A non-	proteinaceous enzyme is
ou.	A.	Lysozyme
	B.	FOR 07 PARTITION 1
		Ribozyme
	C.	Ligase
	D.	Deoxyribonuclease
	***	
81.		hrome is a
	A.	Flavoprotein
	B.	Glycoprotein
	C.	Lipoprotein
	D.	Chromoprotein

- 82. The process which makes major difference between C3 and C4 plants is
   A. Glycolysis
   B. Calvin cycle
  - C. Photorespiration
    D. Respiration
- 83. Which of the following biomolecules is common to respiration-mediated breakdown of fats, carbohydrates and proteins?
  - A. Glucose-6-phosphate
  - B. Fructose 1,6-bisphosphate
  - C. Pyruvic acid
  - D. Acetyl CoA
- 84. Taylor conducted the experiments to prove semiconservative mode of chromosome replication on
  - A. Vincarosea
  - B. Viciafaba
  - C. Drosophila melanogaster
  - D. E. coli
- 85. Read the following sentences carefully and select one of the correct option
  - X: FADH<sub>2</sub> transports only 3 pairs of protons outside the membrane through F0 and F1 complex and produce 3 molecules of ATP.
  - Y: RQ of tripalmitin is 1
  - Z: In glycolysis 2 molecules of ATP are produced during substrate based phosphorylation
  - X is correct and Y and Z are incorrect
  - B. X and Y are correct and Z is incorrect
  - C. All statements are correct
  - D. All statements are incorrect
- 86. Which of the following bone formula is correct for hind limb of human?
  - A. 2, 3, 3, 3, 3
  - B. 1, 2, 8, 5, 14
  - C. 1, 1, 2, 7, 5, 14
  - D. 7, 3, 2
- 87. Following statements are major bioethical concerns pertaining to biotechnology, except
  - Use of animals in biotechnology causes great suffering to them.
  - When animals are used for production of certain pharmaceutical proteins, they are treated as factory or machine.
  - Introduction of a transgene from one species into another species maintains the integrity of species.
  - Transfer of human genes into animals or vice versa is great ethic threat for human.
- 88. Which of the following blood corpuscles have bilobed nucleus and participate in allergic reaction?
  - A. Neutrophil
  - B. Monocyte

	C. Acidophil Basophil  D. Basophil Suppose the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When Suppose the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> when the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>3</sub> . When the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>3</sub> . When the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>3</sub> . When the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>3</sub> .
	D. Basophil  Suppose the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When  Suppose the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When  Suppose the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When  Suppose the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When  Suppose the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When  Suppose the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When  Suppose the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When  Suppose the elements X and Y combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> . When  O I make of XY <sub>2</sub> weights 10 g and 0.05 mole of X <sub>3</sub> Y <sub>2</sub> weights 9 g. the atomic weights of  O I make the combine to form two compounds XY <sub>2</sub> and X <sub>3</sub> Y <sub>2</sub> .
27.	Suppose the electronic to g and 0.05 mote of A312
	n i molé si ve ca di ca
	X and Y are 40, 30
	60 40
	44.46
2	the during electrolysis by a current of I
	D. 30, 20 The number of electrons delivered at the cathode during electrolysis by a current of 1 impere in 60 seconds is (charge on electron = $1.60 \times 10^{-19}$ C)
95.	the number of seconds is (charge on electron = 1.00 × 10
	6x 10 <sup>21</sup>
	Contract to the second
	- 175 x 10"
	7.49 = 10
Z.	Attacks the time required to produce
201 4	During the electrolysis of molten sodium chloride, the time required to produce
91. E	During the electrolysis of montes sources is . 10mol of chlorine gas using a current of 3 amperes is
0.	55 minutes
AB	7. COMPANIAN
C	7 (7) (2) (3) (3) (3) (3) (3)
D	1 1500 104 10400
	The state of the s
2. Th	e suspension of slaked lime in water is known as
A-	Limewater
В.	Quicklime
C.	Milk of lime
D.	
100	CONTRACT COMMON SECURITY MALE
. Bak	celite is
Α.	Thermosetting polymer
B.	Thermoplastic polymer
	Elastomer
C.	
D.	Fiber
The	use's theff factor (i) for a dilute assumes solution of the stores about the
100	van't Hoff factor (i) for a dilute aqueous solution of the strong electrolyte barium
	oxide is:
A	0
В.	I .
C.	2
D.	3
How	many afairstiand framework and the state of
A	many structural isomers are possible for C3H6O?
A.	
B.	5
C.	7
D.	9

95.

- 96. What do we get when ethyne is passed through red hot iron tube at 873 K?
  - A. Benzene
  - B. Toluene
  - C. Mesitylene
  - D. Anthracene
- 97. Basicity of orthoboric acid is
  - A. .
  - B. . .
  - C. :
  - D. 4
- 98. pH of a saturated solution of Ba(OH); is 12. The solubility product (Ksp) of Ba(OH);
  - A. 4×10-6
  - B. 5 × 10<sup>-3</sup>
  - C. 5 × 10<sup>-7</sup>
  - D. 2 = 10-4
- 99. Oxidation number of oxygen in peroxide is
  - A. -1
  - B, -1/2
  - C. -2
  - D. 0
- 100. A certain reaction is endothermic in nature and has a positive entropy change. This reaction is
  - A. Spontaneous at all temperatures
  - B. Non-spontaneous at all temperatures
  - C. Spontaneous at high temperatures, but not at low temperatures
  - D. Spontaneous at low temperatures, but not at high temperature

1+1+1+1