UGEE 2020 MEMORY BASED PAPER

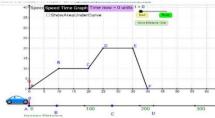
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UGEE 2020 Paper Pattern

PAPER	No. of Que	Time	Marking	Total Marks	Negative Marking	
UGEE 2020	100	3 hr		150		
SUPR	50	1 hr	+1	50	0	
REAP	50	2 hr	+2	100	-0.5	

TIME: 3 HRS TOTAL MARKS: 150

- 1. A Sample taken by a chemist has 500 gm of CaCO₃ dissolved in an aqueous solution of 500 ml, what will be the molarity of the solution which will be prepared?
 - A. 5 M
 - B. 10 M
 - C. 15 M
 - D. 20 M
- **2.** Approximately how much portion of Bohr's Atomic Model is vacant?
 - A. 99.99 %
 - B. 99.9 %
 - C. 99.9999 %
 - D. 99%
- 3. If 2p orbital has n = 2 and has capacity of 6 electrons then the shell having slightly higher energy than 3p is?
 - A. 2p
 - B. 3d
 - C. 3s
 - D. 4s
- **4.** If displacement Vs Time Graph is as follows. Predict other nature of the same motion.



Few graphs of v-t were provided in the options.

- 5. A question on K, L, M, N shells.

 If K, L, M, N shells of an atom are full then the total number of electrons in that atom are?
 - A. 60
 - B. 18
 - C. 50
 - D. 36
- 6. Ratio of masses of 2 bodies are 1:1 and the ratio of time period is 1:8 then calculate the ratio of the length of their semi major axes respectively.
 - A. 1:4
 - B. 1:2
 - C. 1:8
 - D. 1:12
- 7. As per Einstein's energy equation E=mc², find the statement which is incorrect.
 - A. Mass disappears to reappear as energy
 - B. Energy disappears to reappear as mass
 - C. Mass and energy are two different forms of the same entity
 - D. Mass and energy cannot be related to each other
- **8.** A packed vessel has monatomic gas which was later converted to diatomic gas by a special instrument. What would be its degree of freedom?
 - A. 1.5R, 3
 - B. 2.5R, 5
 - C. 3.5R, 7
 - D. 7R, 7



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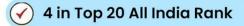
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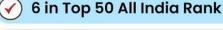
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Answers of UGEE 2020 SUPR

1	В	11	С	21	В	31	D	41	Error
2	С	12	Α	22	Α	32	Α	42	С
3	D	13	В	23	В	33	В	43	С
4	Α	14	A	24	Α	34	D	44	D
5	Α	15	В	25	B, D	35	С	45	Α
6	Α	16	В	26	Α	36	Α	46	D
7	D	17	В	27	C	37	В	47	В
8	В	18	С	28	В	38	D	48	Α
9	Α	19	C	29	A	39	С	49	Α
10	В	20	В	30	C	40	D	50	В

Answers of UGEE 2020 REAP

51	С	61	-	71	D	80	Kolmveerand uheksa
52	Α	62	D	72	В	81	Veerand viis
53	Try <mark>on</mark> own	63	Α	73	В	82	Pool <mark>ka</mark> kstei <mark>st</mark>
54	u <mark>ct</mark> o fi	64	С	74		83	Viis <mark>m</mark> inutit
_							sei <mark>tse</mark> labi
55	5 Dew ece fo		В	75	Α	84	Pool uks
56	6 2,1,4,3,6,5,7		В	76	Α		
57	7 D		С	77	В		
58	D	68	С	78	C		
59	В	69	D	79	D		
60	С	70	С				



6.2

CHAPTER

1) Correct Answer \rightarrow (B) 10 M

$$Molarity = \frac{Number\ of\ moles}{Volume\ of\ solution\ (in\ litre)}$$

$$M = \frac{500 \ X \ 1000}{100 \ X \ 500} = 10 \ M$$

- 2) Correct Answer → (C) 99.9999%

 NCERT Statement.
- 3) Correct Answer \rightarrow (D) 4s Order of energy is given by: 4p > 3d > 4s > 3p > 3s > 2p > 2s > 1s
- 4) Correct Answer \rightarrow (A) Slope of x, t Graph gives velocity V $V = \frac{dx}{dt}$
- Correct Answer → (A) 60
 Total number of electrons in a shell having principal quantum number "n" is given as "2n²".

∴ Total number of electrons = $2(1^2 + 2^2 + 3^2 + 4^2) = 60$

6) Correct Answer → (A) 1: 4 According to Kepler's third law of planetary motion,

 $T \propto a^{3/2}$

UGEE 2020 SOLUTIONS

Where "T "is the time period and "a "is the length of the semi – major axis.

$$\therefore \frac{a_1}{a_2} = \left(\frac{T_1}{T_2}\right)^{2/3} = \left(\frac{1}{8}\right)^{2/3} = 1:4$$

- Correct Answer → (D)
 Mass and energy are interrelated using
 Einstein's equation, E = mc²
- 8) Correct Answer \rightarrow (B) 2.5R, 5 For a Diatomic Gas, δ (degree of freedom) = 5 $Cv = \frac{\delta R}{2} = \frac{5R}{2} = 2.5R$
 - Correct Answer → (A) 8
 This is the representation of CsCl structure where the co-ordination number is 8.

For Cs⁺=> Cl⁻ions

And,

For $Cl^- => 8 Cs^+$ ions form the nearest neighbor.

Correct Answer → (B) 1/4
 Required probability = 1 - probability of getting an odd number on the cube.

$$P = 1 - \left\{ \frac{3}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{2}{10} \right\}$$

$$P = 1 - \frac{15}{20} = \frac{5}{20} = \frac{1}{4}$$

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