

FIITJEE RANKERS STUDY MATERIAL

IIT-JEE, 2002

**PHASE - I
CHEMISTRY**

Time: Two Hours

Maximum Marks : 100

Note:

- i) There are NINE questions in this paper. Attempt ALL questions.
- ii) Answer each question starting on a new page. The corresponding question number must be written in the left margin. Answer all parts of a question at one place only.
- iii) Use of Logarithmic tables is permitted.
- iv) Use of calculator is NOT PERMITTED.

Useful Data:

Gas Constant	R = 8.314 J mol ⁻¹ K ⁻¹ = 0.0821 lit atm mol ⁻¹ K ⁻¹ = 2 Cal mol ⁻¹
Avogadro's Number	N = 6.023 × 10 ²³
Planck's constant	h = 6.625 × 10 ⁻³⁴ J sec.
Velocity of light	c = 3 × 10 ⁸ m sec ⁻¹
1 electron volt	ev = 1.6 × 10 ⁻¹⁹ J F = 96500 C
Atomic Masses	Ag = 108, Mn = 55, Cr = 52, Ca = 40, C = 12, O = 16, K = 39, Cl = 35.5, N = 14, S = 32, Na = 23, H = 1, P = 31, I = 127, As = 75, Fe = 56, Al = 27

Name of the Candidate : _____

Enrollment Number : _____

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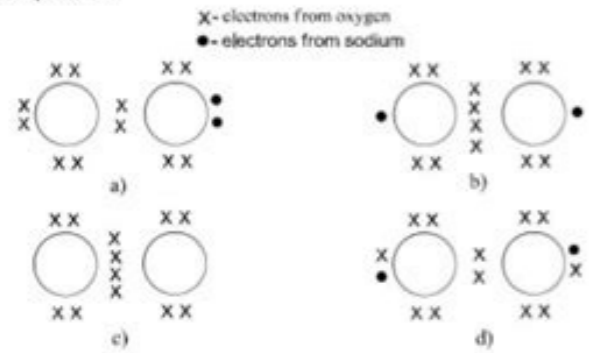
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Physics

1. The speed of a boat is 5 km/h in still water. It crosses a river of width 1.0 km along the shortest possible path in 15 min. The velocity of the river water is : (in km/h)
 - (a) 5
 - (b) 3
 - (c) 2
 - (d) 4
2. Two particles A and B are connected by a rigid rod AB. The rod slides along perpendicular rails as shown here. The velocity of A to the right is 1.0 m/s. What is the velocity of B when angle $\alpha = 60^\circ$?
 
 - (a) 0.5 m/s
 - (b) 1.0 m/s
 - (c) 5.0 m/s
 - (d) 17.3 m/s
3. A mass of 1 kg is suspended by a thread. It is
 - (i) lifted up with an acceleration 4.9 m/s²,
 - (ii) lowered with an acceleration 4.9 m/s².
 The ratio of the tensions is :
 - (a) 3 : 1
 - (b) 1 : 3
 - (c) 1 : 2
 - (d) 2 : 1
4. A car moving with a speed of 40 km/h can be stopped by applying brakes after at least 2 m. If the same car is moving with a speed of 80 km/h, what is the minimum stopping distance?
 - (A) 8 m
 - (B) 2 m
 - (C) 4 m
 - (D) 6 m
5. A force acts on a 3.0 g particle in such a way that the position of the particle as a function of time is given by $x = 3t - 4t^2 + t^3$, where x is in metre and t is in second. The work done during the first 4 s is :
 - (a) 570 mJ
 - (b) 450 mJ
 - (c) 450 mJ
 - (d) 120 mJ
6. A bullet is fired from a gun. The force on the bullet is given by :

$$F = 600 - 2 \times 10^5 t$$
 where F is in newton and t is in second. The force on the bullet becomes zero as soon as it leaves the barrel. What is the average impulse imparted to the bullet?
 - (a) 6 Ns
 - (b) Zero
 - (c) 0.9 Ns
 - (d) 1.8 Ns
7. Two equal masses m_1 and m_2 moving along the same straight line with velocities +3 m/s and -5 m/s respectively collide elastically. Their velocities after the collision will be respectively :
 - (a) -4 m/s for both
 - (b) -3 m/s and +5 m/s
 - (c) 4 m/s and -4 m/s
 - (d) -5 m/s and +3 m/s
8. A 1000 kg rocket is set for vertical firing. The exhaust speed is 800 m/s⁻¹. To give an initial upward acceleration of 20 m/s², the amount of gas ejected per second to supply the needed thrust will be : ($g = 10 \text{ m/s}^2$)
 - (a) 127.5 kg s⁻¹
 - (b) 187.5 kg s⁻¹
 - (c) 185.5 kg s⁻¹
 - (d) 137.5 kg s⁻¹
9. A ball of mass 0.25 kg attached to the end of a string of length 1.56 m is moving in a horizontal circle. The string will break if the tension is more than 25 N. What is the maximum speed with which the ball can be moved?
 - (a) 14 m/s
 - (b) 3 m/s
 - (c) 3.92 m/s
 - (d) 5 m/s

14) Which of the following Lewis dot structures best describes the structure of peroxide ion of sodium peroxide?



15) What is the sum of all three digit even numbers divisible by seventeen?

- a) 18846 b) 18684 c) 14688 d) 16848

16) When a red blood cell was placed in an animal cell (RBC) in 3 different solutions, the following morphological observations were made under a microscope.

Solution 1	Solution 2	Solution 3
Normal morphology	Swollen and hemolysed	Shrunk or crenated

The above three solutions can be classified in the order of

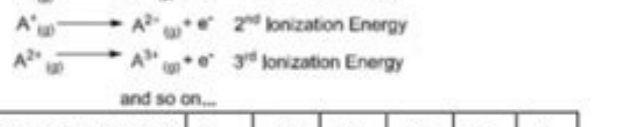
- a) isotonic, hypotonic and hypertonic b) hypotonic, isotonic and hypertonic
c) hypotonic, hypertonic and isotonic d) isotonic, hypertonic and hypotonic

17) A stone is thrown horizontally and follows the XY path as shown in the adjacent figure. The direction of the acceleration of the stone at point Y is



- a) ↓ b) → c) ↘ d) ↙

18) Ionization Energy is defined as "the energy required for removing the most loosely bound electron from an isolated gaseous atom or ion".



Molar Ionization Energy for Element 'A'	1-	2-	3-	4-	5-	6-
(kJ/mol)	1086.5	2352.6	4620.5	6222.7	37831	47277

Identify element A.
a) Nitrogen b) Oxygen c) Carbon d) Fluorine

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