

EVERWIN MATRIC. HR. SEC. SCHOOL

10.10.19 T.T Chemistry Time: 45 Mins
 STD: XI (A,B) Marks: 30

I. Choose the correct answer:

10x½=5

- Half life of francium is
 - 12.3 yrs
 - 12.3 mins
 - 21 yrs
 - 21 mins
- Match the flame colours of the alkali earth metal salts in the bunsen burner.

a) Sodium	1) Blue
b) Lithium	2) Liliac
c) Cesium	3) Crimson Red
d) Potassium	4) Yellow

 - a-3, b-2, c-1, d-4
 - c-2, b-3, a-4, d-1
 - c-1, a-4, b-3, d-2
 - d-3, c-4, a-1, b-2
- For alkali metals, which one of the following trends is incorrect?
 - Hydration energy: $\text{Li} > \text{Na} > \text{K} > \text{Rb}$
 - Ionisation energy: $\text{Li} > \text{Na} > \text{K} > \text{Rb}$
 - Density: $\text{Li} < \text{Na} < \text{K} < \text{Rb}$
 - Atomic size: $\text{Li} < \text{Na} < \text{K} < \text{Rb}$
- Sodium is stored in
 - alcohol
 - water
 - Kerosene
 - None of these
- RbO_2
 - Super oxide and paramagnetic
 - peroxide and diamagnetic
 - Super oxide and diamagnetic
 - peroxide and paramagnetic
- In which process, fused sodium hydroxide is electrolysed for extraction of sodium?
 - Castners process
 - Cyanide process
 - Down process
 - All of these
- Which of the following has the highest tendency to give the reaction: $\text{M}^+(\text{g}) \xrightarrow[\text{medium}]{\text{aqueous}} \text{M}^+(\text{aq})$
 - Na
 - Li
 - Rb
 - K
- Lithium shows diagonal relationship with
 - Sodium
 - Magnesium
 - Calcium
 - Aluminium
- Which one of the following is not true?
 - Lithium on direct combination with nitrogen to form Li_3N

b) Magnesium on direct combination with nitrogen to form Mg_3N

c) Lithium reacts with bromine slowly

d) Lithium and magnesium form bicarbonates

10. Which of the following is used in photo electric cells?

- Na
- K
- Li
- cs

II. Answer any 5 of the following: 5x2=10

- Write any 2 uses of sodium bicarbonate.
 - Why does Lithium exhibit anomalous properties?
 - What are s-block elements?
 - Give the systematic names for the following:
 - Soda ash
 - Milk of magnesia
 - Write the balanced chemical equation
 - Lithium metal with nitrogen gas
 - Rubidium with oxygen gas
 - Complete the reactions:
 - $\text{Li} + \text{H}_2 \rightarrow ?$
 - $2\text{KO}_2 + 2\text{H}_2\text{O} \rightarrow ?$
- III. Answer any 3 of the following: 3x5=15
- Write the biological importance of sodium and potassium.
 - Write the uses of alkali metals.
 - Write the differences between Lithium and other elements of the group.
 - a) What is soda ash? (2 Marks)
 - Write the chemical equations for solvay process. (3 Marks)

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10.10.19 T.T English Time: 45 Mins
 STD: XI (F,G,I) Marks: 25

I. Answer the following questions: 5x3=15

1. Describe the process of Making Bread Omelette.
2. The tabulation shows the features of two five star hotels. Write three sentences on your inference about the data:

Features	Grand Hotel	Pearl Hotel
No. of Guest Room	178	100
Suites	10	6
Conference Hall	8000 sq.ft	5000 sq.ft
Situated	Heart of the city	Railway station
Other facilities	Spa, laundry, baby sitter, courier service, ATM	Laundry, cab services, ATM

3. Expand the following News Headlines:

- i) Heavy rains splashed Chennai.
- ii) Accident 36 killed, near Madurai.
- iii) Smart card to replace Ration cards.

4. Expand the proverb: "Honesty is the best policy."

5. Summarise the following passage:

English is used by over 350 million people across the globe. One person out of every four persons in the world can be reached through English. Fifty percent of the World's Newspapers, scientific and technical journals and over sixty percent of world's radio stations use English as a means of communication. It is the Lingua Franca of the people from south, north, east and west of India. So Pandit Jawaharlal Nehru described English as 'Our Major Window on the Modern World'. English is important not because a number of people know in India, English and not because it is the language of Milton and Shakespeare. English is important because it is the major window on the Modern world. We think of our five year plans, industrialization, scientific development and technology. But every door of modern knowledge will be closed if we do not have one or more foreign language.

II. Answer the following: 2x5=10

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 149 B, Bose Road, Coimbatore-12.

7. Stephen Leacock's visit to the photo studio turns out to be an annoying experience for him. Discuss citing relevant instances from the story?

10.10.19 TT Marks:25
 Std:XI [E,H] Accountancy Time: 45 mins

I. Choose the correct answer: 5x1=5

1. A Bank reconciliation statement is prepared by _____.
 a. bank b. business c. debtors
2. BRS is a copy of _____.
 a. Cash column of the cash book
 b. Bank Column of the cash book
 c. A customer's account in the bank's book
3. Balance as per cash book is Rs.2000. Bank charges of Rs.50 debited by the bank is not yet shown in the cash book. What is the bank statement balance how?
 a. Rs.1950 credit balance
 b. Rs.1950 debit balance
 c. Rs.2050 debit balance
4. BRS prepared with the help of _____.
 a. Bank statement b. Cash book
 c. Bank statement & bank column of cash book
5. Which of the following is not a timing difference?
 a. cheque deposited but not yet credited
 b. amount directly paid into bank
 c. wrong debit in cash book

II. Answer the following questions: 4x5=20

1. From the following information, prepare Bank Reconciliation statement to find out the bank statement balance as on 31/12/17.

Particulars	Rs.
1 Balance as per cash book	15,000
2 Cheque deposited but not yet credited 1,000	
3 Cheque issued & entered in the cash book before 31/12/17 but not presented for payment until that date	1500
4 Dividend directly received by bank	200
5 Direct payment made by bank for rent	1000
6 Locker rent charged by the bank not recorded in cash book 1200	
7 Wrong debit given by the bank on 31/12/17	500
8 A payment made through net bank by has been entered twice in the cash book	300

2. Prepare BRS as on 31/12/17, find out the balance as per bank statement.

Particulars	Rs.
1 Bank overdraft as per cash book	20,000
2 Cheque deposited but not yet credited	4,000
3 Cheque issued but not yet presented for payment	1,000
4 Rent collected by the bank as per standing instruction	500
5 Interest on overdraft debited by bank	2000
6 Amount wrongly debited by bank	300
7 Cheque issued on 31/12/17 dishonored by the bank	5000
8 A customer's cheque deposited in the bank dishonored by bank not recorded in cash book	2000

3. Ascertain the cash book balance from the following particulars as on 31/12/17

- (i) Credit balance as per bank statement Rs.2500
 - (ii) Bank charges Rs.60 have not been entered in cash book
 - (iii) Cheque deposited on 28/12/17 for Rs.1000, was not yet credited by the bank
 - (iv) Cheque issued on 24/12/17 for Rs.700, not yet presented for payment
 - (v) A dividend of Rs.400 collected by the bank directly but not entered in the cash book
 - (vi) A cheque of Rs.600 had been dishonored but no entry was made in the cash book
 - (vii) Interest on term loan Rs.1200 debited by bank but not accounted in cash book
 - (viii) No entry had been made in the cash book for a trade subscription of Rs.500. Paid vide banker's order on 23/12/14
4. Ascertain the cash book balance as on 31/12/16
- (i) Overdraft balance as per bank statement Rs.1,26,640
 - (ii) Interest on overdraft entered in bank statement, but not yet recorded in cash book Rs.3200
 - (iii) Bank charges entered in bank statement, but not found in cash book Rs.600
 - (iv) Cheque issued but not yet present for payment Rs.23,360
 - (v) Cheque deposited into bank but not yet credited Rs.43,400
 - (vi) Interest on investment collected by the bank Rs.24,000

10.10.19

TT

Marks:30

Std:XI [C,D]

Maths

Time: 45 mins

II. Answer any 5 of the following:

5x3=15

6. If $15C_{2r-1} = 15C_{2r+4}$, find 'r'.

7. Prove that $15C_3 + 2 \times 15C_4 + 15C_5 = 17C_5$.

8. In an examination a student has to answer 5 questions, out of 9 questions in which 2 are compulsory. In how many ways a student can answer the questions?

9. Determine the number of 5 card combinations out of a deck of 52 cards if there is exactly three aces in each combination.

10. Prove that of $1 \leq r \leq n$, then $n \times (n-1) C_{r-1} = (n-r+1) n C_{r-1}$.

11. Find the total no. of subset of a set with 4 elements

[Hint: $nC_0 + nC_1 + \dots + nC_n = 2^n$]

III. Answer any 7 of the following:

3x5=15

12. If $(n+2) C_8 : (n-2) P_4 = 57:16$ find 'n'.

13. A committee of 7 peoples has to be formed from 8 men and 4 women. In how many ways can this be done when the committee consists of

- (i) exactly 3 women
- (ii) atleast 3 women
- (iii) atmost 3 women

14. (i) A kabaddi coach has 14 players ready to play. How many different teams of 7 players could the coach put on the court?

(ii) How many chords can be drawn through 20 points on a circle?

(iii) How many ways can a team of 3 boys, 2 girls and 1 transgender be selected from 5 boys 4 girls and 2 transgenders?

15. There are 11 points in a plane. No three of these lies in the same straight line except 4 points, which are collinear. Find

- (i) The number of straight lines that can be obtained from the pairs of these points?
- (ii) The number of triangles that can be formed for which the points are their vertices?