

NAME:

**BA PROVINCIAL FREE BIRD INSTITUTE**

**YEAR 12 TERM ONE END EXAMINATION 2021**

**CHEMISTRY**

**ANSWER BOOKLET**

100

There are four multiple choice questions and seven short answer questions. All are compulsory.

**Multiple Choice**

1.	A	B	C	D
2.	A	B	C	D
3.	A	B	C	D
4.	A	B	C	D

**Short Answer**

5. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

6. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

7. i. \_\_\_\_\_ ii. \_\_\_\_\_  
(2 marks)

8. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

9. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

10. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

---

---

(2 marks)

11.

a) accurate AND precise \_\_\_\_\_

b) precise but NOT accurate \_\_\_\_\_

c) NEITHER precise NOR accurate \_\_\_\_\_

d) accurate but not precise \_\_\_\_\_

(4 marks)

**STRAND 2 INVESTIGATING MATTER**

**(30 MARKS)**

There are six multiple choice questions and seven short answer questions. All are compulsory.

**Multiple Choice**

1.	A	B	C	D
2.	A	B	C	D
3.	A	B	C	D
4.	A	B	C	D
5.	A	B	C	D
6.	A	B	C	D

(6 marks)

**SHORT ANSWERS**

7. (i) \_\_\_\_\_

(ii) \_\_\_\_\_

(iii) \_\_\_\_\_

(iv) \_\_\_\_\_

(2 marks)

8. \_\_\_\_\_

\_\_\_\_\_

(2 marks)

9. \_\_\_\_\_

\_\_\_\_\_

(2 marks)

10.

(i) \_\_\_\_\_

(1 mark)

(ii) \_\_\_\_\_

(1 mark)

- (iii) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
**(1 mark)**
11. Account for the following:
- i. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
**(2 marks)**
- ii. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
**(2 marks)**
- iii. \_\_\_\_\_  
\_\_\_\_\_  
**(1 mark)**
- iv. \_\_\_\_\_  
\_\_\_\_\_  
**(1 mark)**
- v. \_\_\_\_\_  
\_\_\_\_\_  
**(1 mark)**
12. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
**(2 marks)**
13. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
**(2 marks)**
14. (i) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
**(2 marks)**
- (ii) \_\_\_\_\_  
\_\_\_\_\_  
**(1 mark)**

(iii)

(1 mark)

**STRAND 3 REACTIONS**

**(50 MARKS)**

There are ten multiple choice questions and short answer questions. All are compulsory.

**Multiple Choice**

1.	A	B	C	D
2.	A	B	C	D
3.	A	B	C	D
4.	A	B	C	D
5.	A	B	C	D
6.	A	B	C	D
7.	A	B	C	D
8.	A	B	C	D
9.	A	B	C	D
10.	A	B	C	D

**(10 marks)**

**Short Answer**

1. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ **(2 marks)**

2. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ **(1 mark)**

3. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ **(2 marks)**

4. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ **(2 marks)**

5. \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

16.

(i) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

(ii) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (1 mark)

17.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

18.

(a) \_\_\_\_\_  
\_\_\_\_\_ (1 mark)

(b) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (1 mark)

(c) \_\_\_\_\_  
\_\_\_\_\_ (2 marks)

(d) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

(e) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (1 mark)

19. \_\_\_\_\_  
\_\_\_\_\_ (1 mark)

20. a. \_\_\_\_\_ (1 mark)

b. \_\_\_\_\_  
\_\_\_\_\_ (2 marks)

c. i \_\_\_\_\_ (1 mark)

ii \_\_\_\_\_ (1 mark)

d. i \_\_\_\_\_ (1 mark)

ii \_\_\_\_\_  
\_\_\_\_\_ (1 mark)

21. i.  $\text{Al}_2\text{O}_3$

\_\_\_\_\_  
\_\_\_\_\_ (1 mark)

ii.  $\text{NH}_3$   
:  
\_\_\_\_\_ (1 mark)

iii.  $\text{H}_2\text{CO}_3$ :  
\_\_\_\_\_  
\_\_\_\_\_ (1 mark)

iv.  $\text{PCl}_3$ :  
\_\_\_\_\_  
\_\_\_\_\_ (1 mark)

22. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

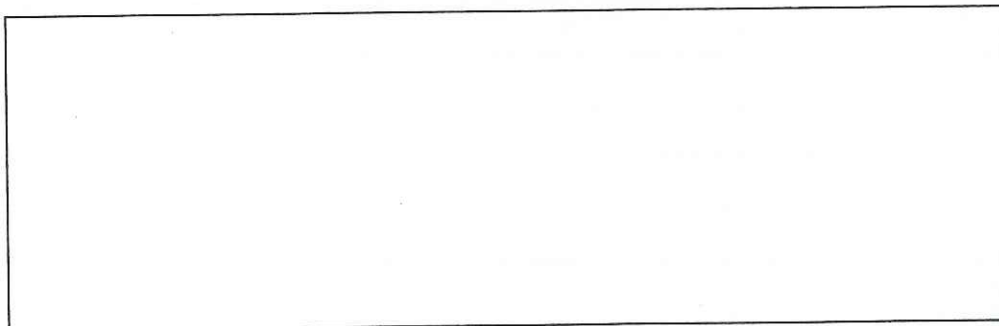
23. X: \_\_\_\_\_

Y: \_\_\_\_\_

Z: \_\_\_\_\_

**(3 marks)**

24.



**(2 marks)**

THE END