

**INDEX:**

**YEAR:**

**RATU NAVULA COLLEGE  
YEAR 12 TRIAL EXAMINATION 2020  
BIOLOGY**

**ANSWER BOOKLET**

**HAND IN THIS ANSWER BOOKLET TO THE SUPERVISOR AT  
THE END OF THE EXAMINATION**



**100**

STRAND 1: Structure and Life Processes [78 marks]

Sub strand 1.1 Cell Organisation (15 marks)

The five questions in this sub strand are all compulsory.

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

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

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

3. \_\_\_\_\_  
\_\_\_\_\_ (1 mark)

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

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

(iii)FOV \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

5. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (1 mark)



- 6. (i) \_\_\_\_\_ (1 mark)
- (ii) N \_\_\_\_\_ (1 mark)
- (iii) layer \_\_\_\_\_
- Germ layer B \_\_\_\_\_ (2 marks)

**Sub strand 1.2                      Cell Organisation                      (18 marks)**

The five questions in this sub strand are compulsory.

- 1. (i) \_\_\_\_\_ (1 mark)
- (ii) difference \_\_\_\_\_ (1 mark)
- (iii) ATP \_\_\_\_\_
- NADPH \_\_\_\_\_ (1 mark)
- (iv) final product \_\_\_\_\_ (1 mark)
- (v) \_\_\_\_\_ (1 mark)
- 2. (i) \_\_\_\_\_ (1 mark)
- (ii) \_\_\_\_\_ (2 marks)
- (iii) \_\_\_\_\_ (1 mark)

(iv) economical \_\_\_\_\_  
\_\_\_\_\_ (1 mark)

3. \_\_\_\_\_  
\_\_\_\_\_ (1 mark)

4. (i) site \_\_\_\_\_ (1 mark)

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

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

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

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

**Sub strand 1.3 Genetic Continuity (10 marks)**

The four questions in this sub strand are compulsory.

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

(ii) co dominance \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (1 mark)



2. (i) mutation \_\_\_\_\_  
\_\_\_\_\_ (1 mark)

(ii) importance \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

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

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

**Substrand 1.4 Comparative Form And Function In Plants And Animals [22 marks]**

The ten questions in this sub strand are compulsory.

1. (i) \_\_\_\_\_ (1 mark)  
(ii) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

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

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

(ii) adaptive value \_\_\_\_\_

\_\_\_\_\_

(1 mark)

(iii) counter current flow \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(2 marks)

4. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(2 marks)

5. (i) structure A \_\_\_\_\_ (1 mark)

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

(1 mark)

6. \_\_\_\_\_

\_\_\_\_\_

(1 mark)

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

\_\_\_\_\_

(1 mark)

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

\_\_\_\_\_

(1 mark)

8. (i) adaptive value \_\_\_\_\_

\_\_\_\_\_

(1 mark)



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

9. Identify whether the following action is complete by the nervous system or the endocrine system by placing a tick in the appropriate column:

Actions	Nervous system	Endocrine system
Quickly moving away the fingers after touching a hot iron.		
Growing in height from birth till the end of puberty.		
Release of adrenalin in a dangerous yet exciting situation		
Blinking eyes		

(2 marks)

10. (i) \_\_\_\_\_  
 \_\_\_\_\_ (1 mark)
- (ii) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (1 mark)





[The page contains approximately 30 horizontal lines for writing, which are currently blank.]

Strand 2 Living Together

[25 Marks]

Sub strand 2.1 Organism and The Environment

(10 marks)

The three questions in this sub strand are compulsory.

1. (i) population density \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (2 marks)

(ii) Biotic factor \_\_\_\_\_  
 \_\_\_\_\_ (1 mark)

(iii)

(1 mark)

2. (i) reason \_\_\_\_\_  
 \_\_\_\_\_ (1 mark)

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









[Lined writing area]

**THE END**