

1058

SCIENCE

20E(A)

Part - II : Biological Science
(English Version)

PARTS A & B



Time : 1 Hour 30 Mins.]

Roll Number : _____

[Maximum Marks : 40

Instructions :

1. *Read the question paper carefully and understand.*
2. *Answer the questions under Part-A in the answer sheet provided.*
3. *Part-A contains three Sections : Section-I, II and III.*
4. *Part-B answers should be written in the given brackets and attach it to the Part-A answer sheet.*
5. *Write the answers by following the instructions given in each section.*

PART - A

(Q1)
(Q2)
(Q3)
(Q4)
(Q5)
(Q6)
(Q7)
(Q8)

Time : 1 Hour 15 Mins.]

[Marks : 30

SECTION - I

$3 \times 2 = 6$

Instructions :

- (i) *This section contains 3 very short answer questions.*
- (ii) *Answer all the questions.*
- (iii) *Write the answers in 3-4 sentences.*
- (iv) *Each question carries 2 marks.*

(Q1)
(Q2)
(Q3)
(Q4)
(Q5)
(Q6)

1. *Write two chemicals required to conduct an experiment to prove that 'Carbon dioxide is necessary for photosynthesis'.*
2. *Write two suggestions that you would give to a person whose both the kidneys stop working completely.*
3. *What will happen if pollutants enter into the lake ecosystem ?*

(Q1)
(Q2)
(Q3)
(Q4)
(Q5)
(Q6)

20E(A)

SECTION - II $3 \times 4 = 12$ **Instructions :**

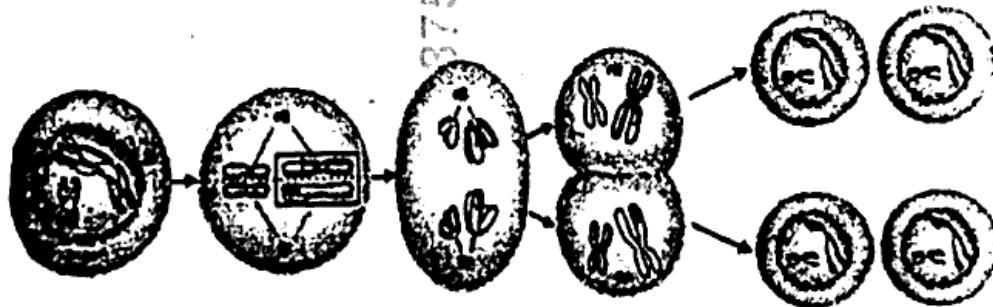
- (i) This section contains 3 short answer questions.
- (ii) Answer all the questions.
- (iii) Write answers in 5 to 6 sentences.
- (iv) Each question carries 4 marks.

Q
15
14
13
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7

4. Explain the steps of light dependent reaction in the mechanism of photosynthesis.

5. Write any four non-renewable resources you have observed in your surroundings and write their uses. <https://www.telanganaboard.com>

6. Observe the following picture and answer the following questions.



Ans: 10/15

- (i) What type of cell division does it represent ?
- (ii) What is the difference in the number of chromosomes of a parent cell when compared to daughter cells ?
- (iii) In which cells of the body does the above cell division take place ?
- (iv) How many daughter cells are formed in the above cell division from a single parent cell ?

SECTION – III **$2 \times 6 = 12$** **Instructions :**

- (i) This section contains **3** Essay type questions.
- (ii) Answer any two questions.
- (iii) Write the answers in **8 to 10** sentences.
- (iv) Each question carries **6** marks.

10
10
10
10
10
10

7. Explain the parts of human brain and their functions.

60
60
60
60

8. Explain the experimental procedure followed to observe the internal structure of the mammalian heart and write the observations.

9. Explain the human respiratory system with a labelled diagram.

MARCH, 2025