

I. Answer in one word: 5x1=5

1. What is chromosome?
2. Write the expanded form of DNA?
3. Where is DNA found in a cell?
4. What is Monohybrid cross?
5. Which of the following traits are dominant in pea plant?  
Yellow pod colour, terminal position of flower.  
Round seed.

II. Answer the following questions: 2x3=6

6. a) Define variation.  
b) How many pairs of chromosomes are found in human beings.
7. Give the pair of contrasting traits of the following character in pea plant and mention which is dominant and recessive.  
i) white flower                      ii) Axial position of flower.
8. Define law of segregation.

III. Answer in brief: 3x3=9

9. In the following crosses. Write the characteristics of the progeny.

CROSS		PROGENY
a) TTRR x TTRR	=	
b) R r x R r	=	
c) TT X tt	=	

10. Why did Mendel choose pea plant for his experiments?
11. When BB is crossed with bb, what will be the ratio of progeny in F<sub>2</sub> generation. Explain with the help of punnett square?

IV. Answer the following in detail: 1x5=5

12. How do mendel's experiments show that the "traits are inherited independently".

I. In the following passages, one word has been omitted in each line. Write the missing word along with the word that comes before and the word that comes after it in the space provided against the correct blank number. Ensure that the word that forms your answer is underlined. 6x1=6

		Before	Word	After
Here four important sections in a bonsai	a)			
as all plants. The trunk constitutes	b)			
the very basis a tree. It is	c)			
therefore most important part of	d)			
bonsai. It should taper gradually	e)			
towards top.	f)			

II. Rearrange the following words and phrases to form meaningful sentences: 4x1=4

1. of mankind / the habit / reading is / one of / resources / of / the greatest /
2. are / we enjoy / that / belong to us / than if / much more / they / borrowed/ reading books /
3. book / formality / a certain considerate / must be treated / with / a borrowed /
4. no book / that / afraid to / you should / mark up / own /you are /

III. Explain with reference to the context: 5x1=5

He waited a moment in surprise, wondering why did not come nearer, and then maddened by hunger he

dived at the fish. With loud scream, he fell outwards and downwards into space. Then a monstrous terror seized him and his heart stood still he could hear nothing:

1. Who is 'she' in the above passage?
2. Why did he dive at the fish?
3. Why did his heart stand still?
4. How did the seagull express his excitement when he saw his mother bringing food to him?
5. Name the author

IV. Answer in short:

5x2=10

1. How did the young seagull's family celebrate his first flight?
2. 'The sight of the food maddened him. Who is 'he' in these lines? Why was he angry? What does this suggest?
3. When did the seagull's flight begin? And where did it end?
4. Why didn't the young seagull take the plunge? What stopped him from doing so?
5. What is the message that Liam O' Flaherty wants to give to the readers through the lessons 'His First Flight'?