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SUBMIT

15. ट्रांसलेशन प्रक्रिया के दौरान *t*-RNA का चार्जिंग होना क्यों आवश्यक होता है ? 2
Why is charging of *t*-RNA necessary during translation process ?
16. किसी एक प्रत्यूर्जक का नाम लिखिए और उससे उद्भासित होने पर मानव शरीर में क्या अनुक्रिया होती है, लिखिए । 2
Name an allergen and write the response of the human body when exposed to it.
17. एरिथ्रोजाइलम कोका से प्राप्त होने वाली औषध का नाम लिखिए और बताइए कि मानव शरीर पर इसके क्या प्रभाव होते हैं । 2
Name the drug obtained from *Erythroxylum coca* and write its effects on the human body.
18. मवेशियों में अंतःप्रजनन का महत्व समझाइए । 2
Explain the importance of inbreeding in cattle.

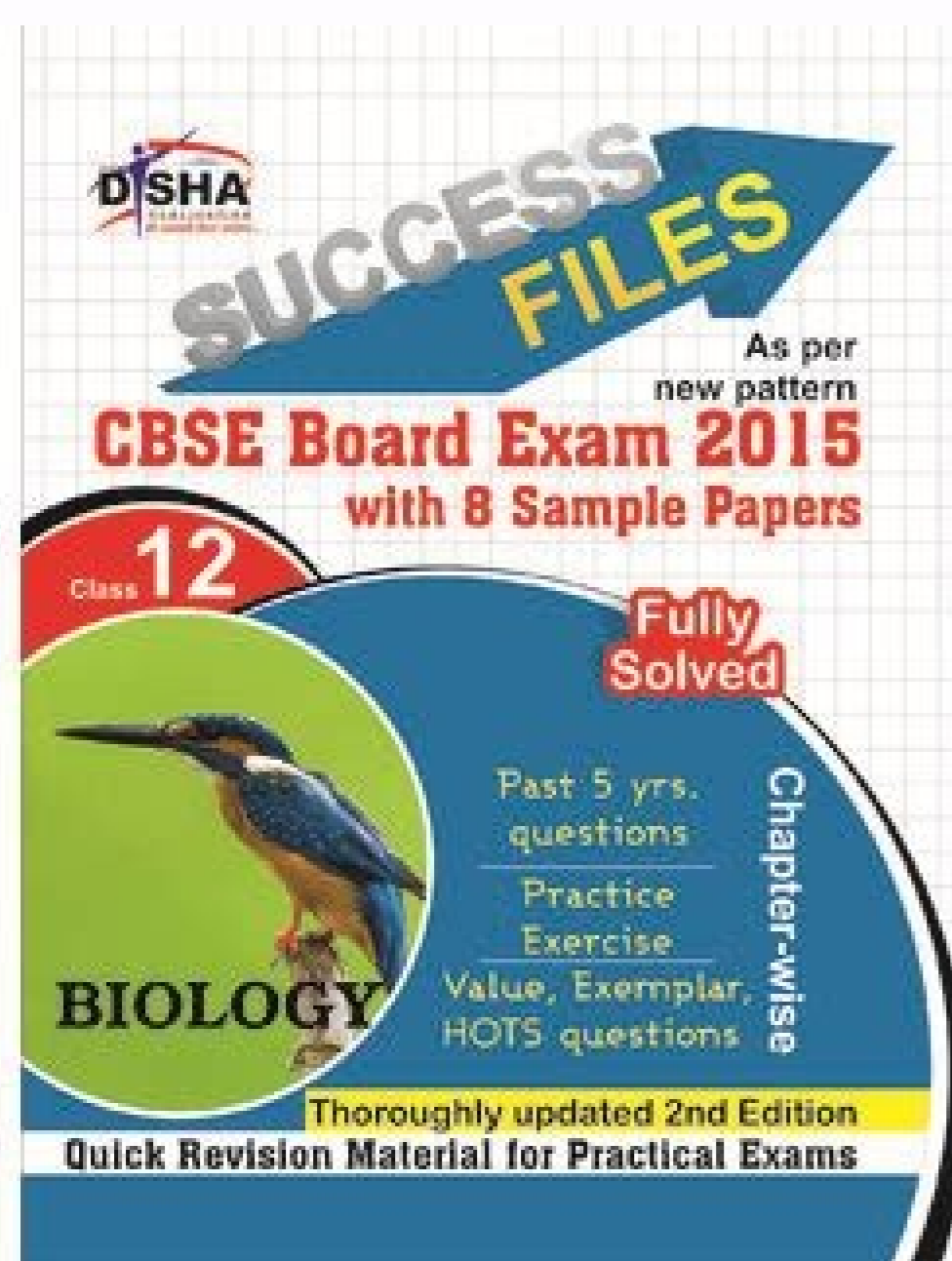
खण्ड C
SECTION C

19. मॉर्गन ने *ड्रोसोफ़िला* पर कई द्विसंकर संकरण किए और पाया कि F_2 -अनुपात प्रत्याशित मेंडलीय अनुपात से बहुत भिन्न-भिन्न आए । एक उदाहरण की सहायता से उसकी इन खोजों के विषय में समझाइए । 3
Morgan carried out several dihybrid crosses in *Drosophila* and found F_2 -ratios deviated very significantly from the expected Mendelian ratio. Explain his findings with the help of an example.
20. किसी ट्रांसक्रिप्शन (अनुलेखन) इकाई में निम्नलिखित के पाए जाने का स्थान और उनकी भूमिका के विषय में एक योजना आरेख की सहायता से समझाइए : 3
प्रमोटर (उत्प्रेरक), संरचनात्मक जीन, अंतकारी ।
With the help of a schematic diagram, explain the location and the role of the following in a transcription unit :
Promoter, Structural gene, Terminator.
21. डार्विन के मत के अनुसार नए स्वरूपों के प्रकट होने की दर उनके जीवन-चक्रों के साथ जुड़ी होती है । समझाइए । 3
According to the Darwinian theory, the rate of appearance of new forms is linked to their life cycles. Explain.

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P.T.O.



SECTION C (15 Marks)
(Answer all questions)

- Question 16 [5]
(a) How has biotechnology been useful in controlling nematode infection in plants? Explain the technique involved in this process.
OR
(b) Answer the following:
(i) What are *molecular scissors*? What is their role in rDT?
(ii) Explain the steps involved in *downstream processing*, in biotechnology.
- Question 17 [5]
(a) Expand the following terms and explain them briefly:
(i) GIFT
(ii) ZIFT
(iii) RCH
(iv) ICSI
(v) IVF
OR
(b) Classify the methods of contraception. Write short notes on any two of the methods mentioned by you.
- Question 18 [5]
(a) Answer the following questions:
(i) If 10000 K cal energy is available at the level of producers, calculate the amount of energy at the level of secondary consumer.
(ii) A snapdragon plant with red flowers was crossed with a plant with white flowers. It produced pink progeny in the F_1 generation. Explain the principle of inheritance involved with the help of Punnett square.
OR
(b) Describe the process of DNA replication in prokaryotes.

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