	K18U 0935
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Reg. No.:	
Name:// Por /Sun /Imn.) Ex	xamination, May 2018
Name:	OGY
GENERAL COORTOL III	Max. Marks: 40
Time: 3 Hours	
Time: alica - Jane - Ja	
	experimental evidenci
Answer all the questions. Each question carries one mark.	
the start (initiator) codon is	a chandra vy a sobioelous stata W. Af
The DNA molecule of humans contains approximately 30	% adenine.
2. The DNA molecule of fluinteners The percentage of guanine is	usiad by 2
the 5' end of the newly synthesized mR	NAs are modified by a
3. In eukaryoles, the 5 of the 2 of the	(4×1=4)
4. Catalytic RNAs are called	
SECTION-B	Answer eny 2 questions, E
Answer any 7 questions. Each question carries two marks	21. Explain the control of or
Answer any 7 questions. Labri questions. Labri questions. Labri questions. Sometimes of the control of the cont	poisomerase II?
6. What is hyperchromicity?	the gape from which it is
6. What is hyperchromicity?7. In eukaryotes, the mature mRNA is much shorter than synthesized. Why?	24. Describe ino siruciure o
8. What are Okazaki fragments?	pond is formed between

9. What is Wobble hypothesis?

10. Write a brief account on transposons.

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- 11. Mention the biological functions of three types of RNA polymerases in eukaryotes.
- 12. What is the importance of 3'-5' exonuclease activity of DNA polymerase?
- 13. Write a short note on TATA box.
- $(7 \times 2 = 14)$ 14. What is the biological function of aminoacyl tRNA synthetases?

SECTION-C

Answer any 4 questions. Each carries three marks.

- 15. Explain semiconservative method of DNA replication with the support of experimental evidence.
- 16. Describe RNA processing in eukaryotes.
- 17. What are nucleotides? Compare ribonucleotides and deoxyribonucleotides.
- 18. Describe the structure of tRNA molecule.
- 19. What are the characteristics of genetic code?
- 20. Describe the structure of bacterial ribosomes.

 $(4 \times 3 = 12)$

SECTION - D

Answer any 2 questions. Each carries five marks.

- 21. Explain the control of gene expression with reference to lac operon.
- 22. Explain any two types of DNA repair mechanisms in prokaryotes.
- 23. Explain the process of DNA replication in prokaryotes.
- (2×5=10) 24. Describe the structure of chromatin fiber in eukaryotes.

9. What is Wobble hypothesis?