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- Transfer RNA (tRNA) - connection b/w mRNA / protein
 - Anticodon - bind w/ complementary codon in mRNA
 - $3' - AAG - 5' \longleftrightarrow 5' - UUC - 3'$
- enzymes - connect amino acids / tRNA
- "Charged" tRNA - tRNA attached to amino acid

- Ribosomes are the workbench
 - Ribosomes are ribonucleoprotein complexes
- Diagram illustrating the assembly of ribosomes:
-
- Labels in the diagram:
- rRNA
 - Proteins
 - large subunit
 - small subunit
 - Ribosomes
 - leaves nucleus (cytosol)
 - subunits are assembled in nucleus (join when translation starts)

- Ribosomal Subunits will join for translation
- 4 binding sites
- large subunit
- small subunit
- mRNA binding site
- Exit
- tRNA w/ Amino Acid
- tRNA w/ Polypeptide
- tRNA binding sites
- A. Translation Initiation
- 1) mRNA binds to small subunit
5' Cap + Complementary base pairing b/w mRNA (5' UTR) & rRNA
 - 2) Anticodon of first tRNA (tRNA^{met}) binds to start codon
 - 3) large subunit binds
-
- The diagram illustrates the process of translation initiation. It shows a large ribosomal subunit and a small ribosomal subunit. The mRNA binding site is located on the small subunit. The mRNA is shown with its 5' end (5' Cap) and 3' end. The start codon is identified on the mRNA. The first tRNA, carrying the initiator tRNA (tRNA^{met}), binds to the start codon. The large subunit then binds to the complex.

A. Translation Initiation

- mRNA binds to small subunit
5' Cap + Complementary base pairing b/w mRNA (5' UTR) & rRNA
- Anticodon of first tRNA (tRNA^{met}) binds to start codon
- Large subunit binds

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SECTION A

Q1. Write notes on the following in about 150 words each :

$$8 \times 5 = 40$$

- | | | |
|-----|---|---|
| (a) | Metamerism in Annelids | 8 |
| (b) | Affinities of Onychophora | 8 |
| (c) | Parasitic adaptations in <i>Ascaris</i> | 8 |
| (d) | Aerial respiration in bony fishes | 8 |
| (e) | Characteristics of Cetaceans | 8 |

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Page No.

belongs
(o) District to which your Mother originally belongs
(p) State to which your Mother originally belongs

16.(a) Do you possess the prescribed Educational Qualification (Vide rule-7 of the rules of the examination).
Please enclose a copy of the Certificate if answer is "YES" ☐ YES

(b) Do you have any basic Educational Qualification obtained from a foreign institution? ☐

FILL THE BELOW DETAILS CAREFULLY

16.2 Educational Qualifications : Commencing with Matriculation or equivalent examination till Graduation:-

Examination Passed	Class/Division (Grade)	Percentage of Marks(%)	CGPA Score	Year of Passing	Subject(s)	Name of School/College /Institution	Name of Board/University
10th or Equivalent	FIRST				MATHS,SOCIAL SCIENCE,ENGLISH,LANGUAGE		TN MATRICULATION BOARD
12th or Equivalent	FIRST				COMMERCE,ACCOUNTANCY,ECONOMICS,MA		TN STATE BOARD
Stream at Graduation Level							
B.COM.	FIRST				MERIT, ACCOUNTANCY, ECONOMICS		UNIVERSITY OF MADRAS, CHENNAI, T.N.

17. Were you ever Employed : ☐

18. Please give Particulars of-
(a) Particulars of prizes,medals scholarships,etc.
(b) Team/Games/Sports/N.C.C. /Hitchhiking/Mountaineering etc.
(c) Position(s) of distinction Leadership held in School/College
(d) Other extra curricular activities and interests (Such as hobbies etc.) ☐ IN.

19. Having regard to answers given against

Roll No. :- 592851 | Candidate Signature SIGN HERE

THESE DETAILS OF EDUCATIONAL QUALIFICATION, HOBBIES AND EXTRA CURRICULAR WILL APPEAR ON THE SUMMARY SHEET

THE SUMMARY SHEET IS GIVEN TO EVERY INTERVIEW BOARD MEMBER AND QUESTIONS WILL BE ASKED FROM HERE, SO BE CAREFUL ON WHAT YOU FILL, HERE, YOU WILL BE EXPECTED TO HAVE KNOWLEDGE ON WHAT YOU WRITE HERE.

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As we let you see a cross-sectional section of our study material, we assume that you have taken an informed decision to join a self-study course. So we do not offer refunds. Because this is the main problem of students return booklets and give the revision of poor notes. Material is gud, but the impression is problem. Engineering agricultural, chemical engineering, civil engineering and mechanical engineering - no more than a subject. Zoology UPSC 2018 Optional Strategies Optional Zoology Pros: 1) No surprise: Being a subject matter almost there are no surprises in questioning 2) Repeated questions: many questions repeated every year. So, if they printed this tag elsewhere on the pages, then GUID. You can separately participate to discount rate options for existing evolution students. Yos. Ecology (Paper 1) - Biosphere, Ecosystem, Population, Biodiversity, Wildlife of India, Remote Sensing for Sustainable Development, Environmental Biodegradation, Conservation, Pollution Environmental and Economic Zoology of Degradation (Paper 1) - Agriculture, Great Infectives and Communications Diseases, Cattle and Cattle of Diseases, Pests Cellular Biology: (Paper 2) Evolution (Paper 2) Cons: 1) Vast syllabus 2) Even if the notes are available without concise collection 3) limited orientation analyzing previous years of questions is very important the questions are very important repeated every year. If you like what you see, you will love what the rest of the course has to offer. You can access your course of only one device - a personal computer or a mobile device or our App.login of a second device will fail and such an attempt will automatically block your account. We include a good number of practical issues in each self-study course offered by the evolution. Each material is from authentic did technicians, reference books, and online resources. Many students marked well in the 250-350 range with zoology as optional. Then, even if that It is a difference of 36 brands with the topper with more hard work you can be among the top 3. You can also increase your score through clean and well-labeled diagrams. It is not subjective and can seek good brands as long as the answers are presented correctly and neatly. I am giving adequate sequence of these chapters of the documents with combustion. 331 2015 Tina Dabi Politics Science 299 2014 Ira Singhal Geography 307 If you compare the brands of UPSC CSE Topper of the last five years, it can be said that it comes for about 324 marks. So if you're ready to do hard work with smart job and commitment to cover Max Syllabus, you can not stop it from scoring 300+ in zoology. (f) Vizal Engineering Affairs. 1. So replacing the notes. True they print their tag (evolution) between the pages, so it is blurred the notes printing and looks strange and is very difficult to read notes. Class x Nis vel) Exam Examination An Indian Language Compulsory Any Language of Assamese, Bengali, Bodo, Dogri, English, Gujarati, Hindi, Kannada, Kashmiri, Konkani, Maithili, Malayalam, Manipuri, Marathi, Odia, Punjabi, Sanskrit B Understanding, Precision Writing, Use and Vocabulary, Short Trials 1 Test Two tests of 1000-1200 words 2 GS II Heritage and Culture, History and Geography of the World and Society 3 GS Governance, Constitution , Politics, Social Justice and International Relations 4 GS III Technology, Economic Development, Biodiversity, Environment, Security and Disaster Management 5 GS IV % Tica, Integrity and Aptitude 6 Optional I have any subject out of: Agriculture, Livestock and Veterinary Science, Anthropology, Botánica, Civil Engineering, Comment and Accounting, Economics, Electric Engineering, Electric, Geology, History, Law, Gestion, Mathematics, Mechanical Engineering, Membership, Philosophy, Physics, Politics and International Relations, Psychology, Public Administration, Sociology, Statum, Zoology . You will understand in the next chapter. This will help you sharpen your response skills. Please note that SA © Rie Evolution Test is a separate program and is not part of the guided self-study course. Delivering Online allows us to continuously update Content.2. This allows us to reduce the course rate and make the course accessible to most students. It gives you the freedom to access your course materials anytime, anywhere. Weekly Live Sessions and Discussion Discussion FonuS Sao Visible à €

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