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| Reg. No.: stupart | A STATE OF THE PARTY OF THE PAR |
| Name: | CEN ALLERARY |
| VI Semester B.Sc. Degree (CBCSS-Re Examination, April 20 (2014 – 2018 Admissio CORE COURSE IN ZOOL 6B10ZLG : Molecular Biology and | g/Supple.//mprov.) 21/AS-50 ns) .OGY |
| Time: 3 Hours | Max. Marks: 40 |
| Instructions : Answer may be written either in Give illustrations wherever ned | |
| SECTION – A (Molecular Biology) | |
| Explain the mechanism of transcription. Add a modifications. What is genetic code ? Explain the characterists. | |
| II. Answer any one . | on of DNA. BULKS in males |
| 6) Comment on central dogma of molecular biolog 7) What are ribozymes ? Give an example. 8) What are split genes ? 9) What is Spliceosome ? 10) What are Okazaki fragments ? 11) Write a short note on reverse transcription. | |
| IV. Answer any two of the following : | (2×1=2) |

A) Nirenberg B) Kornberg C) Crick D) Okazaki

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|----------|------------------------------------|--|-----------|-------------|--------|---------------------------------|-------|
| 13 | Protein synthesis A) Ribosomes | | | mPNA | Di | -DNIA | |
| 14 |) Anticodon is pres | 10.00 | (0) | mRNA | D) | rRNA | |
| | A) DNA | B) mRNA | C) | tRNA | D) | rRNA | |
| 15 |) Which of the follo | August 1997 Wilderford Co. Co. | 2001 | | 2.8 16 | VI Somes | |
| | A) AUG | B) UUU | | UAA | D) | UUC | |
| | | SECT (Bioinf | TION - | | | | |
| V. A | nswer any one : | | | | | | 8 |
| 16) | Write an essay or | biological datab | ases. | | | | |
| | Explain the tools | And the state of t | | | | | |
| | Briefly describe th | | | | | f bioinformat | ics. |
| | swer any one : | | | | | | 4 |
| | Explain the steps | involved in multip | ole sec | uence align | ment | | |
| | Give an account of | | | | | | |
| | nswer any three : | | | | | | |
| 21) | What is BLAST in | bioinformatics ? | | | | eneg er min(9 Winte on etn/V | |
| | Mention any two n | | | | | | |
| | Comment on micro | | | 3 | | | |
| | What is CLUSTAL | | | | | | |
| | Name any two pro | | | | | | |
| | Expand the abbrev | | | | | | |
| | a) NCBI | b) DDBJ | | | | | |
| VIII. An | swe r any two of th | e following: | | | | (2) | (1-2) |
| 27) | An example for a s | econdary databa | ase is | 9.9 | | What he Split | 191 |
| -0) | 13 a uate | mase search en | dille III | JIII NCDI. | | | |
| 29) | In proteomics 2D-F | PAGE is used to | | | | | |
| 30) | is a nuclei | acid database. | | prinvollo | | | |
| | Who is the 'mother | | | | | | |
| | | | | | | | |