

BIF 401

QUIZ-2

Dated 14-07-2019

- 1- Each nucleotide in RNA has----- bond to backbone sugar. (covalent)
- 2- -----helps in calculating the mass of protein. (Mass/charge ratio)
- 3- PST acronym stands for ----- (peptide sequence tags)
- 4- How many types of secondary structure can be formed possibly by folding of RNA. (5)
- 5- Which are two types of proteomics protocol that are usually employed. (bottom up, Top down)
- 6- Messenger RNA is only ----- of RNA. (5-10%)
- 7- How we can denote a 50 amino acid protein in position 11. (c11, z39)
- 8- The structure of RNA sample can be measured by----- (all of above)
- 9- Bioinformatics is ----- (applied science)
- 10- Which of the following is not protein fragmentation technique (Microarray)

- 11- ----- is the free energy of RNA molecule available of reaction. (Gibbs free energy)
- 12- What does means of MS/MS measurement of molecular weight of protein. (ionized peptides will be analyzed thrice after fragmentation)
- 13- ----- can search peptide mass fingerprinting and shotgun proteomic dataset. (MASCOT)
- 14- The 3' end of ----- has a poly A tail. (mRNA)
- 15- The role of ----- is carrying genetic information from DNA to ribosome where protein are being assembled. (tRNA)
- 16- RNA contains----- sugar. (ribose)
- 17- Which of the following is not an ionization technique in protein. (X-ray crystallography)
- 18- How many types of peptide may be injected in Mass Spectrometer chamber. (three hundred thousand-four hundred thousands)
- 19- RNA molecule are readily degraded due to their -----shelf life. (short)
- 20- Which trees are computationally expensive. (Rooted)

- 21- Thymine is replaced by ----- in RNA. (Uracil)
- 22- RNA can play role its structure is/are ----- (all of above)
- 23- What will be weight of V amino acid 376.14 and Q amino acid 277.11 ----- (99.03)
- 24- RNA molecule have -----quantity of free energy. (lowest)