

Examrace

NTA (UGC) NET Paper 1 Questions (Part 4 of 30)

Dr. Manishika Jain- Join online Paper 1 intensive course. Includes tests and expected questions.

1. A B (salt) Na + H₂ (alcohol) B MeI C (ether) C Conc. HI MeI A NaOH/I₂ iodoform heat. The alcohol A, salt B and ether C, are respectively
 - a. CH₃OH, CH₃ONa, CH₃ – O-CH₃
 - b. CH₃OH, C₂H₅ONa, CH₃ – O-C₂H₅
 - c. C₂H₅OH, C₂H₅ONa, C₂H₅ – O-C₂H₅
 - d. C₂H₅OH, C₂H₅ONa, CH₃O-C₂H₅
2. In any ecosystem, the primary producers such as photosynthetic plants are the most abundant and predators such as tigers are the least abundant. The fundamental law responsible for this pattern is
 - a. first law of thermodynamics
 - b. second law of thermodynamics
 - c. Mendel's laws of genetics
 - d. law of conservation of mass
3. In the Siberian forests, carbon fixation is expected to be maximum in
 - a. January
 - b. July
 - c. October
 - d. April
4. Movement of water in a tree takes place in
 - a. roots only
 - b. in the central part of the stem
 - c. in the peripheral part of the stem
 - d. leaves only
5. Which of the following is not used as a fertilizer?
 - a. Ammonium nitrate

- b. Ammonium phosphate
 - c. Urea
 - d. Sodium chloride
6. In DNA, Adenosine pairs with Thymine, and Guanine pairs with Cytosine. If Adenosine constitutes 18% and Guanine constitutes 24% of all nucleotides in a DNA preparation, it must be a
- a. single stranded DNA
 - b. double stranded DNA
 - c. very short stretch of double stranded DNA
 - d. multi-chromosomal DNA
7. A bacterium which is 1 in diameter and divides every 20 minutes, forms a 1 mm diameter colony in 24 hours in a growth medium with limited nutrients. The number of cells in the colony is approximately
- a. 1000
 - b. 109
 - c. 2×72
 - d. 272
8. Burns caused by steam are more serious than burns caused by boiling water because
- a. steam has large latent heat
 - b. steam has a very large specific heat compared to water
 - c. steam is hotter than boiling water
 - d. steam being a gas makes easy contact with skin
9. The largest decimal number that a four byte integer can represent is approximately
- a. 105
 - b. 107
 - c. 109
 - d. 1011
10. A modern personal computer is capable of multiplying two numbers in a few
- a. picoseconds

- b. nanoseconds
- c. microseconds
- d. milliseconds

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