GRAPHIC ERA UNIVERSITY

Graphic Era Common Entrance Test (GECET)

Sample Test Paper – Biology Related Courses (Except B.Tech Biotech)

Total Duration: 120 Minutes (Aptitude plus Domain specific)
Total Aptitude Questions: 50
Total Aptitude Marks: 70
Marks for Domain paper: 30

IMPORTANT INSTRUCTIONS

1. Read each question carefully before answering.

2. All questions are compulsory.

3. There is no negative marking.

4. Use of calculators is not permitted unless explicitly allowed.

Marking Scheme:

- Domain-Specific: 15 Questions × 2 Marks = 30 Marks

- Aptitude: 30 Questions × 1 Mark + 20 Questions × 2 Marks = 70 Marks

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SECTION 1: APTITUDE

(Common Aptitude Sample Questions in a separate document)

SECTION 2

Domain Specific (2 Marks Each)

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1. Which method is an ex-situ conservation strategy?
   a) national parks

b) wildlife sanctuaries
c) seed banks
d) biosphere reserves

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2. The principle behind DNA fingerprinting is based on:
a) protein folding
b) variable number tandem repeats (vntrs)
c) trna mutation
d) ribosome activity

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3. According to the Hardy–Weinberg principle, evolution occurs when:
a) population is small and isolated
b) mating is random
c) no migration happens
d) gene frequency changes

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4. Chromosomal mutation includes:
a) point substitution
b) deletion, duplication, inversion
c) base methylation
d) amino acid replacement

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5. The energy flow in an ecosystem is:
a) cyclic
b) bidirectional
c) multidirectional
d) unidirectional

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6. Gene regulation in bacteria mostly occurs at the level of:
a) translation
b) transcription
c) dna packaging
d) protein export

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7. The coding strand of DNA is also called:
a) template strand
b) antisense strand

c) sense strand
d) lagging strand

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8. A mutation that changes a codon but does not change the amino acid is called:
a) missense mutation
b) silent mutation
c) nonsense mutation
d) frameshift mutation

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9. Which ecosystem component decomposes organic matter?
a) producers
b) consumers
c) decomposers
d) parasites

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11. DNA replication occurs in the:
a) Nucleus
b) Cytoplasm
c) Mitochondria only
d) Golgi body

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12. The stop codons in mRNA are:
a) AUG, GUG, UUG
b) UAA, UGA, UAG
c) AAA, GAA, CAA
d) AUA, UUA, GUA

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13. The human genome contains approximately:
a) 3 thousand base pairs
b) 3 million base pairs
c) 3 billion base pairs
d) 3 trillion base pairs

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14. Mutualism is an example of:
a) Intraspecific interaction

b) Interspecific interaction
c) Neutral interaction
d) Competitive exclusion

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15. A codon consists of:
a) 2 nucleotides
b) 5 nucleotides
c) 4 nucleotides
d) 3 nucleotides

ANSWER KEY

Question No.	Answer
1	c
2	b
3	d
4	b
5	d
6	b
7	c
8	b
9	c
10	a
11	a
12	b
13	c
14	b

15	d

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