



**Department of Life Sciences  
School of Science**

**MS Biotechnology and Biochemistry Entry Test Pattern**

- 15% English
- 15% Analytical Reasoning
- 70% Subject (20% Biochemistry, 20% Biotechnology, 15% Microbiology, 15% Molecular Biology)



# School of Science

## Graduate Assessment Test

Time: 2 hours

100 Marks

Student Name:

CNIC:

Cell No. :

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### General Instructions:

- Read the test directions carefully, and work as rapidly as you can without being careless.
- For each question, choose the best answer from the available options.
- Answers with cutting, Overwriting *etc.* will not be included in scoring.
- Questions for which you mark no answer or more than one answer will not be counted in scoring.
- All questions are of equal value and there is no choice or substitute of a question; do not waste time pondering individual questions you find extremely difficult or unfamiliar.
- Record all answers on your answer sheet, as answers recorded elsewhere will not be counted.

I have read the instructions carefully

Participant Signature \_\_\_\_\_

Invigilator Signature: \_\_\_\_\_

**Select the appropriate option.**

1. Anwar can always count \_\_\_\_\_ my help
  - a. In
  - b. From
  - c. On
  - d. For
2. It comes as no surprise that societies have codes of behavior; the character of the codes, on the other hand, can often be \_\_\_\_\_.
  - a. Predictable
  - b. Unexpected
  - c. Admirable

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Questions 16 - 20

The principal of a school is forming a committee. There are to be five members: three teachers, chosen from Mr. J, Ms. K, Ms. L, Mr. M, and Mr. N; and two students, chosen from O, P, Q, and R. The composition of the committee must conform to the following conditions: Ms. J will serve only if R is also on the committee. Ms. L will not serve unless Ms. K and O also serve. Neither Mr. M nor Mr. N will serve without the other. If P serves, neither Q nor R can serve.

16. Which of the following is an acceptable committee?

- a. J, L, M, N, O
- b. K, L, N, O, P
- c. K, M, N, O, R
- d. L, M, N, O, R
- e. M, N, O, P, Q

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31. Why is golden rice pale yellow in color?

- a. Rich in chlorophyll *a*
- b. Rich in chlorophyll *b*
- b. Rich in beta-carotene
- c. Rich in phycobilins

32. Restriction enzymes are named for

- a. The person who discovered
- b. The bacterium they are derived from
- c. The viral DNA they attack
- d. None of the above

33. Which enzyme is used to join together two different types of DNA molecules?

- a. Ligase
- b. Endonuclease
- c. Exonuclease
- d. Protease

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