ADMISSSION TEST

BS (Biotechnology)

SAMPLE TEST

Department of Bioinformatics & Biotechnology

Faculty of Basic and Applied Sciences

International Islamic University, Islamabad.

SECTION I

English (Question 1 - 10)

1. While UK has earned record revenue this year, _____ well behind in exports.
(A) it still lag
(B) it still lags
(C) it lag still
(D) it lags still

2. Anna and Tania went shopping, but _____ couldn't find anything _____ liked.
(A) they, those
(B) they, them
(C) those, they
(D) they, they

3. Nuclear energy is _____ dangerous to be used widely.
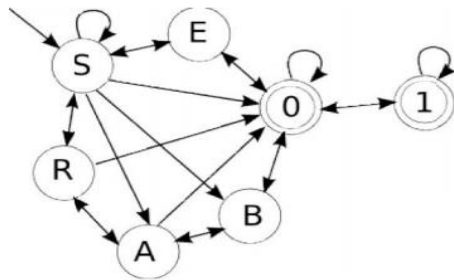(A) so
(B) such
(C) too
(D) that

SECTION II

Mathematics (Question 11 – 20)

11. What is the distance travelled by a car which travelled at a speed of 80km/hr for 3 hours and 30 minutes?
    A. 275km
    B. 280km
    C. 285km
    D. 290km

12. In a class of 40 students 20% are girls. How many boys are there in the class?
    a. 26
    b. 28
    c. 30
    d. 32

13. Price of sugar is increased by 25%. The percentage of consumption to be decreased so that there would be no increase in the expenditure is
    A. 18%
    B. 20 %
    C. 22%
    D. 24%

14. The number, whose 7% is 42, is
    A. 300
    B. 400
    C. 500
    D. 600

SECTION III

Analytical Reasoning (Question 21 – 30)

21. Engineers build rafts. For river traffic control, all rafts should be registered. It means that each raft should have a license plate with unique text. The text is composed of letters and digits according to below diagram: start with the letter B and end with digit 0 or 1.

Which of the following license plates cannot be registered?

A) SS0001   C) SSS001
B) SSS100   D) SBA001

22. You have a long roll of colored paper for a party you are hosting. The paper has three different colors (yellow, red, blue) in a regularly repeating pattern. Your sister has cut out a section of the paper, as shown in the diagram below.

Your sister will give you back the missing piece of paper (shown as …) if you can correctly guess the size of the piece she cut out. Your sister tells you the piece of paper she cut out is one of the following lengths. Which one is it?

A) 31   C) 33
B) 32   D) 34

23. Twelve men take 6 hours to finish a piece of work. After the 12 men have worked for 1 hour, the contractor decides to call in 8 more men. How many more hours would 20 men take to complete the remaining work?
    A) 2   C) 4
    B) 3   D) 5

SECTION IV

Subject based (Question 31 - 100)

31. The mechanism of stomatal movement is related to the branch of Biology called:

    a. Taxonomy
    b. Physiology
    c. Morphology
    d. Anatomy

32. The one which is not a globular protein:

    a. Anti Rh antibody
    b. Enzyme
    c. Myosin
    d. Hemoglobin

33. An enzyme which converts a dipeptide into separate amino acids is an example of:

    a. Decarboxylase
    b. Hydrolase
    c. Oxidoreductase
    d. Transferase

34. There are _____ stomata per square cm of leaf surface in Tobacco plants:

    a. 1200
    b. 12000
    c. 100,000
    d. 1000

35. In which of the following cases, genotypic and phenotypic ratio will remain same in F2 generation:

    a. Law of Independent Assortment
    b. Law of Segregation
    c. Test cross
    d. Incomplete Dominance

36. A pea plant with yellow seed was crossed to a plant having green seeds. What will happen in F1; if plants are true breeding:

    a. All seeds will be yellow
    b. Half of the seeds will be yellow
    c. All seeds will be green
    d. Both will be present in the ratio 1:2:1