

# ADMISSION TEST

**BS (Biology)**



**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

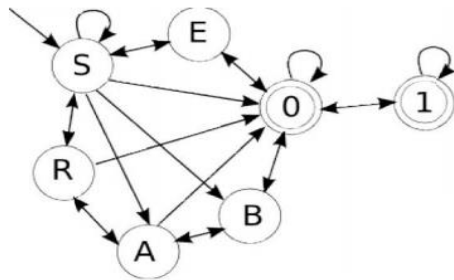
**SECTION II****Mathematics (Question 11 – 20)**

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
- B) SSS100
- C) SSS001
- 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
- B) 32
- C) 33
- 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
- B) 3
- C) 4
- D) 5

## SECTION IV

### Subject based (Question 31 - 100)

31. Which of the following pathogen type cause disease that can be treated with antibiotics
- (A) bacteria
  - (B) fungi
  - (C) virus
  - (D) none of these
32. Most cell membranes are composed principally of
- (A) DNA ad protein
  - (B) protein and lipids
  - (C) protein and chitin
  - (D) protein and RNA
33. Normally, in the process of osmosis, the net flow of water molecules into or out of the cell depends upon differences in the
- (A) concentration of water molecules inside and outside the cell
  - (B) concentration of enzymes on either side of the cell membrane
  - (C) rate of molecular motion on either side of the cell membrane
  - (D) none of these
34. Sodium ions are “pumped” from a region of lower concentration to a region of higher concentration in the nerve cells of humans. This process is an example of
- (A) diffusion
  - (B) passive transport
  - (C) osmosis
  - (D) active transport