Beaconhouse National University

SCHOOL OF COMPUTER AND IT

**SAMPLE FOR ADMISSION TEST 2024**

### BSc (Hons) in Computer Science

### BSc (Hons) in Software Engineering

### Name : Signature

### Applicant ID. \_\_July 2024

**IMPORTANT INFORMATION FOR CANDIDATES**

1. The objective of the Admission Test is to determine the aptitude of candidates for BSc(Hons) in Computer Science, and BSc(Hons) in Software Engineering. For those who qualify the test, the merit for admission will be determined on the basis of their previous academic record.
2. The Test consists of two sections i.e. Section I (IQ & General Knowledge) and Section II (Mathematics). The test is structured as **Multiple-Choice questions** and you have to record the correct answer on the provided answer sheet.
3. The duration of the Test is **1 hour 30 min** divided as follows: Section I (**55 min**) and Section II (**35 min**).
4. Candidates should note the following instructions for taking the Test:
	1. Read each question carefully before answering it. Work out the solution and record your answer on the Answer Sheet against the question number. **Answers written on Test Booklet will not be accepted.** Use the blank pages/margins of the Test Booklet for rough work.
	2. All answers should be written with ball pen. Answers written with lead pencil will not be accepted.
	3. If you finish answering questions in a section before the allowed time, check your work on the attempted section only. **Do not refer to the other section of the Test. Failure to follow this instruction will result in your disqualification.**
	4. There is no negative marking i.e. no mark will be deducted for a wrong answer or for not answering a question.
	5. Use of **calculators is allowed**. Mobile phones must be switched off during the test. Do not bring anything to the test center except the **Admit Slip** and **Pens/Ball pens** and a **Calculator**

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## SYLLABUS FOR ADMISSION TEST

**SECTION I – IQ/GEN. KNOWLEDGE** (55 min, 50 questions, 50 marks)

Test of logical reasoning, understanding relationship between sets of words and figures, Sequences of numbers and alphabets, Puzzles and problem solving.

General Knowledge about history, geography, everyday science and current affairs.

**SECTION II Mathematics** (35 min, 20 questions, 20 marks)

Fractions, Decimals, Ratio and proportion, Word problems, Percentages, Problem solving using algebra, Basic geometry, Basic Calculus

# 1 1 1 1 1 1 1

**SECTION I (IQ/GENERAL KNOWLEDGE)**

**No. of Questions: 50**

**Time Allowed: 55 minutes**

#### The Sample contains 30 questions only

#### What comes next in the series?

2 1 0.5 0.25 **?**

**Options**

1. What number is next in the series? 21 13 21 17 21 21 21 **?**

**Options**

1. Which figure is next in the sequence?

**Options**

#### How many squares and rectangles are in the figure below?

|  |  |
| --- | --- |
|  |  |
|  |  |  |  |
|  |  |  |

**Options**

1. What is the next figure in the sequence?

### Options

1 1 1 1 1 1 1

#### Find the missing alphabet :

J

G

M

D

P

A

S

**Options**

1. A cheque has the amount written on it as “**Rupees One Ninety Nine Thousand Nine Only**” Write this amount in numbers.

### Options

#### In the figure below, if circle A is VARIABLE and circle B is VENTURE, what is the shaded area?

A

B

### Options

1. Complete the analogy

Zoo is to animals as Aquarium is to .

### Options

1. What is greater: one-half of 1/3 OR one-third of 1/2?

### Options

1. Which one of these words comes first in a dictionary: PIECE, PEACE or PIERCE?

### Options

1. Which is the odd one out?

Cycling, Fencing, Boxing, Wrestling, Hockey

### Options

1. What is the figure shown below called?

### Options

1. Majid runs faster than Saleem, Jamil runs faster than Majid, Haroon runs faster than Saleem. Who runs the fastest??

### Options

1. If 17th June is a Monday, what day it will be on 17th July?

### Options

1. What is measured by a BAROMETER?

### Options

1. Who was Galileo?

### Options

1. Which country’s cricket team is called PROTEAS?

### Options

1. What does the acronym SNGPL stands for?

### Options

1. The highest civil award of Pakistan is **Nishan i Pakistan**, what is the second highest civil award of Pakistan?

### Options

1. Sun consists of 70% of which gas?

### Options

1. International youth day is observed every year on ?

### Options

1. Which game is called ‘Game of Kings’ ?

### Options

1. For how many years, the United states stayed in Afghanistan?

### Options

1. The term **double fault** is associated with which game?

### Options

1. How many time Australia won the cricket world cup?

### Options

1. The Angel who delivered messages to Prophet Muhammad (PBUH) from Allah was?

### Options

1. Which country is called the “Land of Prophets”?

### Options

1. Which surah starts without “Bismillah” in Quran?

### Options

1. What does NADRA stand for in Pakistan?

### Options

1 1 1 1 1 1 1

**END OF SECTION I**

**Do not turn to the next section until you are asked to do so.**

2 2 2 2 2 2 2

**Section II (Mathematics)**

**No. of Questions: 20 Time Allowed: 35 min**

1. What percentage is 0.001 of 0.05 ?

##### Options

1. In a certain school, 40% of all students are 8 years old or younger. The number of the remaining students is 120. How many students are 8 years old or younger?

##### Options

1. What is 7 $\frac{1}{4 }$ ÷ 3 $\frac{3}{8}$. Give your answer in mixed fraction.

##### Options

1. The Google map of a housing scheme is displayed on a scale of 500:1. If a square on the map has area of 16 sq cm, what is the actual area (on the ground) in square meters?

##### Options

1. A car washer can wash 8 cars in 18 minutes. At this rate how many cars he can wash in 4 hours and 12 minutes?

##### Options

1. If 30 shirts are sold for Rs. 6,000 at a profit of 7.5%. What was the cost price of each shirt?

##### Options

1. The applicants to a college increased by 20% from 2010 to 2011. If the number of applicants in 2011 were 960, how many applicants were there in 2010?

##### Options

1. If 0.000005893 is expressed in the form 5.893 x 10**n** , what is the value of **n**?

##### Options

2 2 2 2 2 2 2

1. Mr. Saleem found that his monthly expenses are as follows:

|  |  |
| --- | --- |
| Rent and Utilities: | 35% |
| Food: | 25% |
| Clothing: | 5% |
| Misc: | 15% |
| Vehicle : | 20% |

If he spends Rs. 5,000 on Food, how much does he spend on his Clothing?

##### Options

1. Arrange the following numbers in ascending order of magnitude. 3/5, 0.15, 7/8, 0.45, 17/19

##### Options

1. Find the value of the expression 1

3+√3

+ 1 = ?

√3 −3

##### Options

1. In an election, a total of 120,000 votes were cast for two opposing candidates, Mr. A and Mr. B. If Mr. A won the election in ratio 5:3, how many votes were cast for him?

##### Options

1. A room has dimensions Length = 12 feet, Breadth = 8 feet, Height= 6 feet. Find the cost of painting the room (four walls and ceiling) at cost of Rs. 5 per square foot. Assume area of doors and windows of the room is 60 square feet which is not to be painted.

##### Options

1. If (j ÷ k )= 24 and k = (2 ÷ 7), what is the value of (1 ÷ 3 j)?

##### Options

1. A parent rewards a child with Rs. 10 for a correctly solved problem and fines him Rs. 2 for an incorrectly solved problem. If the child gets Rs. 80 after 50 problems, how many problems did he solve correctly?

##### Options

# 2 2 2 2 2 2 2

1. What is the radius of a circle that has a circumference of

3.14 centimeter?

##### Options

1. A packet contained 450 chocolates. 60% of these were distributed

among children. How many chocolates remained in the packet?

##### Options

1. The volume of a cylinder is 440cm2 and the height is 35cm. Find the radius of the cylinder of a base.

##### Options

1. If the average (mean value) of a, b, c, 5, and 6 is 6, what is the average of a, b, c, and 13?

##### Options

1. Let x= 1, y= 1, z= 1. Perform the following sequence of steps.
	1. Add 5 to x
	2. If x is less than 10, add 3 to z, otherwise add 3 to y
	3. If y is less than 4 repeat from step 1
	4. Stop.

What are the final values of x, y and z?

##### Options

**END OF SECTION II**

**Do not turn to the previous section**

## ANSWER KEY FOR SAMPLE TEST PAPER 2024

|  |
| --- |
| **SECTION I (IQ/ GEN KNOWLEDGE)** |
| Question Number | Answer |
| 1 | 0.125 |
| 2 | 25 |
| 3 |   |
| 4 | 7 |
| 5 |   |
| 6 | V |
| 7 | 199,009 |
| 8 | VER (or its permutations) |
| 9 | fish |
| 10 | Both are equal |
| 11 | PEACE |
| 12 | Hockey |
| 13 | hexagon |
| 14 | Jamil |
| 15 | Wednesday |
| 16 | pressure |
| 17 | Astronomer or Scientist |
| 18 | South Africa |
| 19 | Sui Northern Gas Pipelines Limited |
| 20 | Hilal e Pakistan |
| 21 | Hydrogen |
| 22 | 12th August |
| 23 | Chess |
| 24 | 20 years |
| 25 | Tennis |
| 26 | 6 times |
| 27 | Jibrael (A.S) |
| 28 | Palestine |
| 29 | Al Toba |
| 30 | National Database and Registration Authority |
| **SECTION II (MATHS)** |
| Question Number | Answer |
| 1 | 2 % |
| 2 | 80 |
| 3 | 2 $\frac{4}{27}$ |
| 4 | 400 sq meters |
| 5 | 112 cars |
| 6 | Approx Rs. 186 per shirt |
| 7 | 800 applicants |
| 8 | **-** 6 |
| 9 | Rs. 1000 |
| 10 | 0.15, 0.45, 3/5, 7/8, 17/19 |
| 11 | -0.577 0R -1/√3 |
| 12 | 75,000 votes |
| 13 | Rs. 1380 |
| 14 | 7/144 OR 0.0486 |
| 15 | 15 questions |
| 16 | 0.5cm |
| 17 | 180 |
| 18 | 2cm |
| 19 | 8 |
| 20 | X=11, y = 4, z = 4 |