

**Green University of Bangladesh**  
Faculty of Science and Engineering  
Admission Test, Sample Question

**Full Marks: 50**

**Time: 45 minutes**

***Instructions for the Admission Test:***

- 1. All questions carry equal marks except in written English part.*
  - 2. Answer all the questions.*
  - 3. Please put a tick mark (✓) on the letter/number of the correct answer.*
  - 4. There is only one correct answer.*
  - 5. There is no negative marking for the wrong answer*
- 

**Part A: English (11 Questions, 05 +10 = 15 Marks)**

**Writing**

1. Write a paragraph of ten sentences on **Bangladesh**.

**Grammar****Tense/Subject –verb agreement**

1. Yesterday I \_\_\_\_\_ to see you.  
a. go                      b. have gone                      c. gone                      d. went
2. It is better to \_\_\_\_\_ like a lion than a mouse.  
a. is living                      b. living                      c. lives                      d. live
3. Have you ever \_\_\_\_\_ to Cox's Bazar?  
a. being                      b. be                      c. been                      d. have been

**Preposition**

1. He congratulated you \_\_\_\_\_ your promotion.  
a. in                      b. on                      c. of                      d. for
2. I am fond \_\_\_\_\_ reading novel.  
a. of                      b. by                      c. on                      d. with
3. The land was divided \_\_\_\_\_ the two sisters.  
a. among                      b. between                      c. with                      d. for

**WH Question**

1. \_\_\_\_\_ do you live?  
a. Where                      b. What                      c. Who                      d. When
2. \_\_\_\_\_ is this?  
a. Who                      b. Where                      c. What                      d. When
3. \_\_\_\_\_ is the bank?  
a. Where                      b. Who                      c. When                      d. Whom
4. \_\_\_\_\_ is your name?  
a. What                      b. Where                      c. When                      d. Who

**Part B: General Knowledge (10 Questions, 10 Marks)**

1. What is the old name of Dhaka?
 

(a) Jahangirnagar	(c) Islampur
(b) Sonargoan	(d) Dacca
  
2. Which country is the first acceptor of Bangladesh?
 

(a) India	(c) Srilank
(b) Bhutan	(d) Russia      (e) None of these
  
3. Mujibnagar is situated at?
 

(a) Satkhira	(c) Meherpur
(b) Chuadunga	(d) Nababgang
  
4. Which area of Bangladesh was the first to free from Pakistan army in 1971?
 

(a) Kustia	(c) Jessore and Sylhet
(b) Rongpur and Dinajpur	(d) Mymensingh
  
5. What is name of the Malaysian currency?
 

(a) Dinar	(c) Ringgit
(b) Rial	(d) Rupiah
  
6. World population day is observed on?
 

(a) 11 July	(c) 10 December
(b) 17 October	(d) 21 June
  
7. Where is the 'Uttara Gonovhoban' situated?
 

(a) Rajshai	(c) Naogoan
(b) Bogra	(d) Nator
  
8. 'Chandra Deep' is the ancient name of which area of Bangladesh?
 

(a) Comilla	(c) Chittagong
(b) Barisal	(d) Dhaka
  
9. Who was the designer of the central Shahid Minar of Bangladesh?
 

(a) Nazrul Islam	(c) Lui-I-Khan
(b) Hamidur Rahman	(d) Hasima Reza
  
10. Which of the following is a sculpture by artist Nitun Kundu?
 

(a) Shabash Bangladesh	(c) Shoparjito Shadhinota
(b) Opraheyo Bangla	(d) Roktim Nithor

**Part C: Physics (10 Questions, 10 Marks)**

1. Time taken to complete a wave is termed as
  - a) span
  - b) time period
  - c) life
  - d) duration
2. Sound is a good example of.....waves.
  - a) transverse
  - b) longitudinal
  - c) polarized
  - d) electromagnetic
3. Nuclear sizes are expressed in a unit named
  - a) Fermi
  - b) angstrom
  - c) newton
  - d) tesla
4. Light year is a unit of.....
  - a) Time
  - b) distance
  - c) Light
  - d) intensity of light
5. Light from the Sun reaches us in nearly
  - a) 2 minutes
  - b) 4 minutes
  - c) 6 minutes
  - d) 8 minutes
6. Pa (Pascal) is the unit for.....
  - a) thrust
  - b) pressure
  - c) frequency
  - d) conductivity
7. Metals are good conductors of electricity because
  - a) they contain free electrons
  - b) the atoms are lightly packed
  - c) they have high melting point
  - d) All of the above
8. If two bodies of different masses, initially at rest, are acted upon by the same force for the same time, then the both bodies acquire the same
  - a) velocity
  - b) momentum
  - c) acceleration
  - d) kinetic energy
9. Pick out the scalar quantity
  - a) force
  - b) pressure
  - c) velocity
  - d) acceleration
10. Rectifiers are used to convert
  - a) Direct current to Alternating current
  - b) Alternating current to Direct current
  - c) high voltage to low voltage
  - d) low voltage to high voltage

**Part D: Mathematics (10 Questions, 10 marks)**

1. The root of the equation  $x^3 - 30x^2 + 108x - 104 = 0$   
(a) no real roots; (b) exactly one root; (c) three distinct real roots; (d) a repeated root.
2. For what values of real number the quadratic equation  $x^2 + ax + a = 1$  have real roots?  
(a)  $a \neq 2$  (b)  $a > 2$  (c)  $a = 2$  (d)  $a < 2$
3. Let  $N = 2^k \times 4^m \times 8^n$  then  $N$  will be a square number whenever  
(a)  $k$  is even (b)  $k + n$  is odd (c)  $k$  is odd (d)  $k + n$  is even
4. If  $3x + y = 19$  and  $x + 3y = 1$ . Find the value of  $2x + 2y$   
(a) 20 (b) 18 (c) 11 (d) 10
5. If  $(x+1)^2 = 4$  and  $(x-1)^2 = 16$  what is the value of  $x$   
(a) -3 (b) -1 (c) 1 (d) 3
6. If  $x = 1 - e^t$  and  $y = 1 + e^t$  Find  $y$  in terms of  $x$   
(a)  $y = x$  (b)  $y = 2 - x$  (c)  $y = \frac{x-1}{x}$  (d)  $y = \frac{x}{x+1}$
7. If  $a + b = y$  what is  $a^2 + 2ab + b^2$   
(a)  $y$  (b)  $2y$  (c)  $y^2$  (d)  $2y^2$
8. If the average (arithmetic mean of the numbers)  $x, 2x, 4x$  is 14 what is the value of  $x$ ?  
(a) 2 (b) 6 (c) 7 (d) 10
9. If  $(a-b)^2 = (a+b)^2$  what is the value of  $ab$ ?  
(a) -4 (b) -2 (c) 0 (d) 2
10. Which is the largest of the following four numbers?  
(a)  $\log_2 3$  (b)  $\log_4 8$  (c)  $\log_3 2$  (d)  $\log_5 10$

**Part E: Chemistry (05 Questions, 05 Marks)**

1. Which acid is present in lemon?
  - a) Marlic Acid
  - b) Citric Acid
  - c) Lactic Acid
  - d) Tartaric Acid
2. The term "PVC" used in plastic industry stands for?
  - a) Polyvinyl chloride
  - b) Polyvinyl carbonate
  - c) Phosphor vanadium chloride
  - d) Polyvinyl alcohol
3. Inert gases are-
  - a) Monoatomic
  - b) Diatomic
  - c) Triatomic
  - d) None of the above
4. Which of the following is present in Nail Polish Remover?
  - a) Benzene
  - b) Acetic Acid
  - c) Acetone
  - d) Petroleum Ether
5. The isotopes of an element differ in-
  - a) Number of neutrons
  - b) Atomic weight
  - c) Number of protons
  - d) Number of electrons

**Green University of Bangladesh**  
Faculty of Business, Law and Social Sciences  
Admission Test, Sample Questions

**Full Marks: 50**

**Time: 45 minutes**

***Instructions for the Admission Test:***

1. *All questions carry equal marks except in written English part.*
  2. *Answer all the questions.*
  3. *Please put a tick mark (✓) on the letter/number of the correct answer.*
  4. *There is only one correct answer.*
  5. *There is no negative marking for the wrong answer*
- 

**PART-1**

**ENGLISH**

**1. Multiple Questions: Choose the correct answers from the following questions**

1\*5=5

- I. What is the antonym of “protects” .....

  - a) defends
  - b) deprives
  - c) deserts
  - d) devises

- II. I ..... the piano since the age of five.

  - a) played
  - b) am playing
  - c) play
  - d) have played

- III. Which one is the current passive form of “ Let us sing a song”?

  - a) let a song be sung.

b) let a song be sung by us.

c) let be a song sung by us.

d) let a song be sung for us.

IV. What is the antonym of “river”?

a) Stream

b) Waterfall

c) falls

d) motionlessness

V. Which of the following is a verb?

a) across

b) Pretty

c) dance

d) some

## 2. Translate the following sentences into Bengali

1\*5=5

a. Can you speak more slowly?

b. The sum was too difficult for me to work out.

c. I shall have finished my lesson before they come.

d. Dhaka is larger than all other cities in Bangladesh.

e. Give me a glass of water.



**3. Write down a Composition on “*Environment Pollution*” in 250 words.**

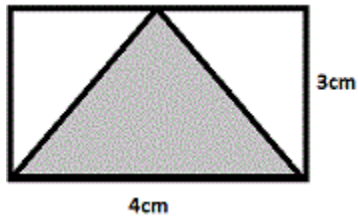
10

**PART-2****MATHEMATICS**

Marks=15

Choose the correct answer from the given options

1.  $0.003 \times 0.02 = ?$ 
  - A. 0.06
  - B. 0.006
  - C. 0.0006
  - D. 0.00006
2. What is the average of the numbers: 0, 0, 4, 10, 5, and 5?
  - A. 2
  - B. 3
  - C. 4
  - D. 5
3. What is the rate of discount if a bicycle which cost Rs. 4,000 is sold for Rs. 3,200?
  - A. 14%
  - B. 16%
  - C. 18%
  - D. 20%
4.  $|-4| + |4| - 4 + 4 = ?$ 
  - A. 0
  - B. 2
  - C. 4
  - D. 8
5. What is the value of  $x$  in  $3x - 15 - 6 = 0$  ?
  - A. 7
  - B. 8
  - C. 9
  - D. -9
6. What is the area in  $\text{cm}^2$  of the shaded region in the diagram below?



- A. 6
- B. 7
- C. 8
- D. 9

7. If A completes a particular work in 8 days and B the same work in 24 days. How many days will it take if they work together?
- A. 4
  - B. 5
  - C. 6
  - D. 7
8. What is the symbol of pi?
- A. €
  - B.  $\Pi$
  - C.  $\Omega$
  - D.  $\infty$
9. 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
10. 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
11. Which sign is used for writing an equation?
- A. >
  - B. <
  - C. ]
  - D. =
12. If  $5x + 1 = 16$ , what is the value of x?
- A. 0
  - B. 2
  - C. 3
  - D. 4
13. In the equation  $x + y = 7$ , where  $x = 4$ , what is the value of y?
- A. 5
  - B. 3
  - C. 2
  - D. 1
14. On which price do we calculate profit and loss?
- A. Buying price
  - B. Selling price
  - C. Income
  - D. Expenditure

15. A table sold at Taka 420 makes 5% profit. What is the purchase price of the table?

- A. 240
- B. 400
- C. 410
- D. 480

### **PART-3**

### **General Knowledge**

Marks=15

**Choose the correct answer from the given options (Section-A)**

1\*10=10

1. What does Bangladesh's flag look like?
  - a. Blue background with yellow star in centre
  - b. Green background with red circle in centre
  - c. Red background with white circle in centre
2. What year did Bangladesh finally become independent and gain the name it has today?
  - a. 1947
  - b. 1971
  - c. 1952
3. What is the national flower of Bangladesh?
  - a. Water lily
  - b. Rose
  - c. Tulip
4. On which continent is Bangladesh located?
  - a. Africa
  - b. Asia
  - c. Europe
5. Which district of Bangladesh was part of Assam?
  - a. Chittagong
  - b. Khulna
  - c. Sylhet
6. Which area of sea lies to the south of Bangladesh?
  - a. South China Sea
  - b. Indian Sea
  - c. Bay of Bengal
7. Before the 1950's which crop was the principle crop of Bangladesh ?
  - a. Jute
  - b. Cotton
  - c. Rice
8. Who is the national poet of Bangladesh?
  - a. Rabindranath Tagore
  - b. Kazi Nazrul Islam
  - c. Jasimuddin
9. What is the main industrial sector in Bangladesh?

- a. Pharmaceuticals
  - b. Readymade Garments
  - c. Leather
10. Who is the Captain of Bangladesh Test Cricket Team?
- a. Shakib Al Hasan
  - b. Mushfiqur Rahim
  - c. Mashrafe Bin Mortuza

**Write the correct answer (Section-B)**

1\*5=5

1. Name of the current US President: \_\_\_\_\_
2. What is the currency of India: \_\_\_\_\_
3. Who is called the King of Pop Music: \_\_\_\_\_
4. From which country refugees are coming to Bangladesh? \_\_\_\_\_
5. Who invented Penicillin? \_\_\_\_\_