International Islamic University, Islamabad
Department of Electronic Engineering

BSEE - Admission Test 2009
Paper Pattern - Sample Questions

1. Test will be of 90 MCQs, for 120 minutes, on Sunday the 26 July 2009.
2. These are sample questions for your guidance only, prepare your self from the relevant books.

The test will comprise the following parts

Verbal (English) 20 Questions
(Sentence Completion, Analog, Reading Comprehension, Synonyms and Antonyms)

(1)   He emerged ---- the office and entered the car.

(A) into
(B) from
(C) amid
(D) inside

(2)   *Friend : Love*

(A) Neighbor : Talk
(B) Leader : Hear
(C) Officer : Defied
(D) Enemy : Hate

        Because the star is estimated to be about 300 million years old, any large planets that might orbit it must have already formed. However, the orbits of rocky remnants left over from the planetary formation process might be influenced by the planets in the system, as Jupiter did in our early solar system. Given the properties of this dust, the team estimates that the collisions could not have occurred more than about 1000 years ago. A longer history would give the fine dust enough time to be dragged into the central star.

(3)   Which of the following is true?

(A) The planets that orbit the star are about 300 million years old.
(B) The star is older than the planets orbiting it.
(C) The star is older than the solar system.
(D) The planets that orbit the star are older than 300 million years.

(4)   Select the appropriate choice for antonym to the capital word:

COAGULATE

(A) culmination
(B) amity
(C) sloppy
(D) disperse

Analytical 20 Questions

A railway track from Lahore to Islamabad consists of six main stations P, Q, R, X, Y and Z. Trains run only according to the following conditions.

        (i) From P to Q
        (ii) From Q to P and from Q to R
        (iii) From R to X
        (iv) From Z to P, from Z to Y and from Z to R

(v) From X to Q and from Z to Y
(vi) From Y to X
(vii) It is possible to transfer a station for another train

(5) The complete and accurate listing of the stations from which it is possible to reach R in two steps, is:
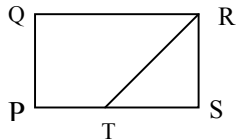
(A) P and Q
(B) P and X
(C) X and Y
(D) X, P and Z

Quantitative 20 Questions
(Arithmetic, algebra and geometry)

(6) The average (arithmetic mean) of t and y is 15, and the average of w and x is also 15. What is the average of t, w, x and y?

    (A) 7.5
    (B) 30
    (C) 22.5
    (D) 15

(7) In the figure above, PQRS is a rectangle. The area of triangle RST is 7 and PT = (2/5)PS. What is the area of rectangle PQRS.

    (A) 16/3
    (B) 7/3
    (C) 70/3
    (D) 75/3

Physics 10 Questions, HSSC Physics I & II

(8) Acceleration in a body is always produced in direction of:

    (A) Velocity
    (B) Momentum
    (C) Motion
    (D) Force

(9) Flight of rocket is an example of:

    (A) Newton third law of motion
    (B) Newton first law of motion
    (C) Law of gravitation
    (D) Straight line motion

Mathematics 10 Questions HSSC Maths I & II

(10) The points (3, 1), (-2, -3) and (2, 2) are the vertices of:
    (A) Equilateral triangle
    (B) Rhombus
    (C) Right-angled triangle
    (D) Isosceles triangle

(11) $\sin\theta \cos\varphi - \cos\theta \sin\varphi =$

    (A) $\cos(\theta + \varphi)$
    (B) $\sin(\theta + \varphi)$
    (C) $\sin(\theta - \varphi)$
    (D) none of these

(12) Find dy/dx when $3x + 4y + 70 = 0$

    (A) 4/3
    (B) - 3/4
    (C) 3/4
    (D) - 4/3

Chemistry/Computer 10 Questions, HSSC I & II

(13) Species having positive or negative charge is called:

    (A) Ion
    (B) Electron
    (C) Proton
    (D) Atom

(14) Accumulator is a

    (A) Storage battery which supplies the necessary power to the system
    (B) Hardware which stores intermediate/partial result
    (C) Hardware which stores data in the memory unit
    (D) Hardware used to link the control with I/O unit

Notes:

- **Use black/blue ball-point or 2 ½ – HB lead pencil**
- **Bring your own pencils, erasers, sharpeners and ball-points. No borrowing is allowed.**
- **The answers of sample MCQs are on the given sheet, familiarise yourself how to fill-in the answer sheet.**

FBAS & FET, IIU - Islamabad

Answer Sheet

ROLL NO
1 0 5 3

Programme Applied For
- BS
- MSc/MCS
- MS
- PhD
- CS
- SE
- EE
- Math

Date of Birth

Day	Month	Year
0 6	1 2	9 2

Gender
- Male
- Female

FULL NAME
IQBAL AHMAD KHAN

Q-1 through Q-150 answer grid with options A B C D E

International Islamic University

INSTRUCTIONS

NOTE: Answer sheet is to be signed both by the invigilator as well as by the candidate with ball pen.

Use black/blue ball pen or lead pencil while filling answer sheet.

Marking Answer (On Test Sheet)

1. For Every Question in the question paper choices of answer are given. Please Mark your choice by filling in the appropriate circle completely, marking it a dark circle as shown below:-

   ● (B) (C) (D) (E)

2. Do not mark more than a single circle for an answer choice. Multiple answer for a question will be regarded as incorrect.

3. Some examples of improper marking are shown below:-

   a. (A) (B) (C) (D) (Ⓔ)   b. (A) (Ⓑ) (C) (D) (E)   c. (A) ● ● (D) (E)

   NOTE: Improperly filled circles shall be marked as wrong answers

4. If you need to erase an answer, do so clearly and cleanly by using good quality eraser.

5. Do not bend or fold your answer sheet, do not make any mark on any area outside the circles provided.

_____
Candidate's Signatures
(ONLY WITH BALL PEN)

_____
Invigilator's Signatures
(ONLY WITH BALL PEN)