



SAMPLE PAPER

Smart Study Program (SSP) 2016

Note: There are two portions of the Aptitude Test i.e. General Portion and Science Portion.

General Portion is mandatory to attempt and has two sections:

1. English
2. General Knowledge & IQ

Science Portion has four Sections and students have choice to attempt all sections. The Sections are:

1. Biology
 2. Chemistry
 3. Physics
 4. Mathematics
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Note: Each question requires the basic knowledge of syllabus no more than grade 8. However, practice of the similar questions can help you on test day.

Directions for Completing Sample Test PRACTICE TEST OVERVIEW

The time limit for this sample test is 23 minutes and this test contains 18 multiple-choice questions.

This test has two Portions i.e. Compulsory and Selective. Each portion has a unique set of instructions and consists of a different type of questions (subjects). For each Portion, read instructions before starting to answer the questions.

Each multiple-choice question is followed by either 4 or 5 options. Only one option is a right answer (Correct). As an example:

EXAMPLE QUESTION:

1. A truck travels at the rate of 80 kilometers per hour. How much distance will it travel in 30 minutes?

- | | | |
|------------------|------------------------------|------------------|
| A. 15 kilometers | B. 30 kilometers | C. 40 kilometers |
| D. 80 kilometers | E. None of the above answers | |

EXPLANATION: Because 30 minutes is one-half hour, and the truck travels 80 kilometers per hour, the distance traveled is 40 kilometers ($80 \text{ kilometers} \times \frac{1}{2} \text{ hour} = 40 \text{ kilometers}$). The correct option is C.

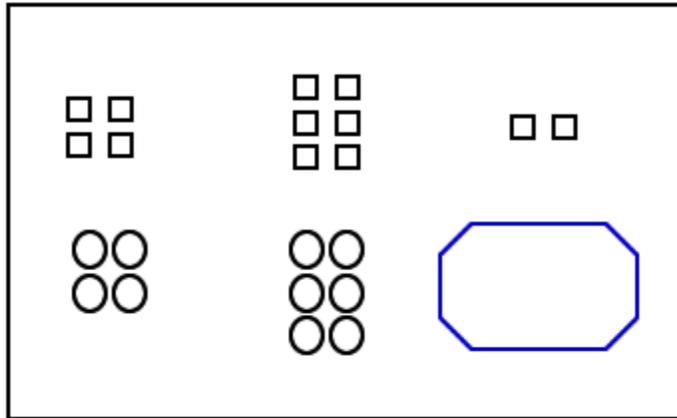
MARKING THE ANSWER SHEET

You may mark in the test booklet. You may also use the extra paper provided to you for calculations.

Once you have decided the best answer, YOU MUST MARK IT ON THE SEPARATE ANSWER SHEET.

- a. Combined Natural Gas
- b. Carbon Nucleic Gas
- c. Compressed Natural Gas
- d. Chloro Nucleic Guerin

3. Choose the best answer in the following pattern:



- 1
- 2
- 3
- 4
- 5
- 6

SCIENCE PORTION

(Mandatory Section)

SECTION C: BIOLOGY

1. It is not advisable to sleep under trees during night. Why?
 - a. The plants release Carbon Dioxide during night.
 - b. The humans release Oxygen during night.
 - c. Natural disasters are common during night.
 - d. Plants can hypnotize humans during night.
2. Which of the following species never urinates?
 - a. Humans
 - b. Birds
 - c. Animals
 - d. Insects
3. Which blood group can accept blood from all other groups?
 - a. O-
 - b. AB+
 - c. B-
 - d. A+

SECTION D: CHEMISTRY

1. In periodic table, elements are mainly classified on the basis of:
 - a. Metals and Non-Metals
 - b. Acidic and Basic nature
 - c. State of matter (solid, liquid and gas)
 - d. Region from where these are extracted
 - e. None of these
2. The air we breathe in, has higher proportion of:
 - a. Nitrogen
 - b. Oxygen
 - c. Hydrogen
 - d. Carbon dioxide
3. Which particle is lightest in an atom:
 - a. Electron
 - b. Proton
 - c. Neutron
 - d. Both B and C

SECTION E: PHYSICS

1. The Sky appears _____ from moon.
 - a. Blue
 - b. Black
 - c. White
 - d. Humans don't know it yet
2. Seasons on earth are caused due to:
 - a. Revolution of Earth
 - b. Rotation of Earth
 - c. Both
 - d. Neither of the two

3. Why are electric wires between two poles kept loose?
- The change in temperature during summers and winters causes contraction and expansion in the electric wires.
 - The statement in the question is wrong. Electric wires are kept tight between the two poles.
 - To help the birds sit and take rest while sitting on the wire.
 - To have extra wires in case of emergency problems.

SECTION F: MATHEMATICS

1. The first smallest prime number is:
- 0
 - 1
 - 2
 - 3
2. If x percent of y is z, then y percent of x is _____
- x
 - y
 - z
 - More information is needed
3. Which of the following describes the relationship between A and B as shown in the pairs of numbers in the table below?

<u>A</u>	<u>B</u>
2	5
3	10
4	17
5	26

(Hint: try to solve each answer)

- $B = A + 4$
- $B = 2A + 1$
- $B = 3A - 1$
- $B = A^2 + 1$
- $B = A^2 - 1$

ANSWER KEYS

TIME: 90 min					
GENERAL PORTION		SCIENCE PORTION			
Total MCQs: 30		Total MCQs: 40			
Section A	Section B	Section C	Section D	Section E	Section F
English	GK & IQ	Biology	Chemistry	Physics	Mathematics
1. B	1. B	1. A	1. A	1. B	1. C
2. C	2. C	2. B	2. A	2. A	2. C
3. A	3. A	3. B	3. A	3. A	3. D