**FEDERAL PUBLIC SERVICE COMMISSION**
**COMPETITIVE EXAMINATION – 2017**
**FOR RECRUITMENT TO POSTS IN BS-17**
**UNDER THE FEDERAL GOVERNMENT**

Roll Number

# GENERAL KNOWLEDGE-I
## (GENERAL SCIENCE & ABILITY)

| TIME ALLOWED:  THREE HOURS | PART-I (MCQS) | MAXIMUM MARKS = 20 |
|---|---|---|
| PART-I(MCQS):    MAXIMUM 30 MINUTES | PART-II | MAXIMUM MARKS = 80 |

**NOTE: (i)** Part-II is to be attempted on the separate **Answer Book.**
   **(ii)** Attempt **ONLY FOUR** questions from **PART-II,** selecting **TWO** questions from **EACH SECTION. ALL** questions carry **EQUAL** marks.
   **(iii)** All the parts (if any) of each Question must be attempted at one place instead of at different places.
   **(iv)** Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.
   **(v)** No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
   **(vi)** Extra attempt of any question or any part of the attempted question will not be considered.
   **(vii)** **Use of Calculator is not allowed.**

# PART-II
# SECTION-I

**Q. No. 2.**   **(A)**   What are the factors responsible for environmental pollution?   **(5)**
   **(B)**   Briefly explain the main reasons of water-logging in Pakistan.   **(5)**
   **(C)**   What do you mean by Ozone depletion and how we can prevent its depletion?   **(5)**
   **(D)**   What is an Acid Rain and how it is produced. Briefly describe the dangers associated with it?   **(5)**

**Q. No. 3.**   **(A)**   Explain in detail the common causes of Heart Attack.   **(5)**
   **(B)**   Differentiate between drug addiction and drug abuse.   **(5)**
   **(C)**   Draw the structure of human ear and briefly explain its functions.   **(5)**
   **(D)**   What is the significance of Vitamins? Describe the sources, uses and deficiency symptoms of fat soluble vitamins.   **(5)**

**Q. No. 4.**   **(A)**   What is a mirage? Describe in detail the creation of mirage.   **(5)**
   **(B)**   Differentiate between the occurrence of Lunar and Solar Eclipse?   **(5)**
   **(C)**   Briefly explain what effects are produced due to Rotation & Revolution of Earth?   **(5)**
   **(D)**   Most of the household appliances utilize 'DC' then why we generate 'AC' at power stations?   **(5)**

**Q. No. 5.**   **(A)**   Differentiate between RAM and ROM.   **(5)**
   **(B)**   Name three basic buses employed in a computer and explain what each is used for.   **(5)**
   **(C)**   Draw a basic computer block diagram and briefly explain the function of each part.   **(5)**
   **(D)**   Describe various types of computers classified on the basis of size, memory, capacity and speed.   **(5)**

# SECTION-II

**Q. No. 6.**   **(A)**   Differentiate with examples between a "Pictogram" and "Histogram".   **(5)**
   **(B)**   The teachers of a certain school were asked to indicate the average number of hours they spend on marking students assignments each day. The following set of data was obtained   **(5)**

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

   Construct a frequency table and draw a Histogram illustrating the results.
   **(C)**   How many teachers responded to the survey?   **(5)**
   **(D)**   What the longest number of hours and most common number of hours are spent?   **(5)**

**Q. No.7.** **(A)** A man buys 5kg of meat at Rs.500 per kg. In addition, for every kilogram of meat purchased, he has to pay a consumption tax of 6% on the selling price. Calculate the total amount of money that he has to pay. **(5)**

**(B)** It takes Ali 30 minutes to mark a paper. Aslam only needs 25 minutes to mark a paper. If they both start marking papers at 10:00 AM, at what time they will finish marking at the same time? **(5)**

**(C)** Two bus tickets from Rawalpindi to Islamabad and three tickets from Rawalpindi to Murree cost Rs.770 but three tickets from Rawalpindi to Islamabad and two tickets from Rawalpindi to Murree cost Rs.730. What are the fares for cities Islamabad and Murree from Rawalpindi? **(5)**

**(D)** *A* told *B* that *C* is his father's nephew. *D* is *A's* cousin but not the brother of *C*. What relationship is there between *D* and *C*? **(5)**

**Q. No. 8.** **(A)** Divide Rs.500 between Arham, Mariam and Sarim so that Arham gets 2/3 of what Mariam gets and Mariam gets ¼ of what Sarim gets. Find the share of each. **(5)**

**(B)** A school has enough provision of food for 52 days. After 20 days a group of 400 students arrives and the food would have last for 24 days only. How many students are there in the school actually? **(5)**

**(C)** A man walks 2km towards North. Then he turns to East and walks 10km. After this he turns to North and walks 3km. Again he turns towards East and walks 2km. How far is he from the starting point? **(5)**

**(D)** In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language? **(5)**