



**FEDERAL PUBLIC SERVICE COMMISSION**

**COMPETITIVE EXAMINATION FOR  
RECRUITMENT TO POSTS IN BPS-17 UNDER  
THE FEDERAL GOVERNMENT, 2008**

<u>Roll Number</u>
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**GENERAL KNOWLEDGE PAPER-I  
EVERY DAY SCIENCE**

**TIME ALLOWED: 100 MINUTES.....Maximum Marks: 50**

**NOTE:**

- (i) Attempt **ONLY FIVE** questions. All questions carry **EQUAL** marks.  
(ii) Extra attempt of any question or any part of the attempted question will not be considered.

**Q.1.** Write briefly about the life and scientific contributions of the following Muslim Scientists: (5+5)

- a. Muhammad bin Musa Al-Khawarizmi
- b. Abu Ali Sina

**Q.2.** Differentiate clearly between the following pairs: (2 each)

- a. Fission and fusion
- b. Star and Planet
- c. Pollination and Fertilization
- d. Telescope and Microscope
- e. Antibiotics and Vaccines

**Q.3.**

- a. Discuss briefly the SOLAR SYSTEM. (6)
- b. How are EARTHQUAKES caused? (4)

**Q.4.** Write briefly (not more than four to five sentences) about any FIVE of the following: (2 each)

- a. Supernova
- b. Radioactivity
- c. Laser
- d. Semiconductors
- e. Geothermal Energy
- f. Computer Virus
- g. Pasteurization



**Q.5.**

a. What are HORMONES? Name four important hormones and describe their functions in the human body. (2+4)

b. Explain the structure and function of an ANIMAL CELL with a labeled diagram. (2+2)

**Q.6.**

a. What are the essential nutrients of BALANCED DIET? Describe one such nutrient in detail explaining its role in the metabolism. (2+4)

b. What do the following scientific abbreviations stand for? (1/2 each)

i. PVC ii. BCG iii. ECG iv. CFC v. LPG vi. DNA vii. AIDS viii. TNT

**Q.7.**

a. Define ENERGY. Name four renewable sources of energy. How can our country come out of Energy Crisis? (1+2+3)

b. Write a brief note on CERAMICS. (4)

Q.8.(a) Describe very briefly the working of a CAMERA. How does it resemble in its function with that of the HUMAN EYE? (3+3)

(b). What are PLASTICS? Describe briefly their characteristics and Limitations. (1+3)

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