



**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION FOR**  
**RECRUITMENT TO POSTS IN BPS-17 UNDER**  
**THE FEDERAL GOVERNMENT, 2006**

<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 short notes on only TWO of the following: (5 each)**

- (a) Magnetic Resonance Imaging
- (b) Tidal Energy
- (c) Supersonics

**Q.2. What is Pollen Allergy? What preventive measures are to be taken to avoid it? (4, 6)**

**Q.3 Name. (1 each)**

- 1) The alloy consisting of metals copper, zinc and nickel.
- 2) The instrument specially designed for recording earthquake waves,
- 3) The electrical device which converts sound energy into electrical energy.
- 4) The ore of mercury metal.
- 5) The device with which variation of blood flow can be heard.
- 6) The element, which is abundantly present in the human body.
- 7) The scientist who discovered penicillin.
- 8) The astronaut who first landed on the surface of the moon.
- 9) The desert mammal, which does not drink water.
- 10) The mode of heat transfer from the sun to the earth.

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

- (a) Plaster of Paris
- (b) Theodolite
- (c) Bird Flu
- (d) Gene
- (e) Thermistor

\_\_\_\_\_

\_\_\_\_\_

- (f) Thermostat
- (g) Pedometer

**Q.5. Which physical quantities are measured by the following units? (1 each)**

- (a) Foot-Pound
- (b) Torr
- (c) Slug
- (d) Gauss
- (e) Acre Foot
- (f) Becquerel
- (g) Erg
- (h) Dyne
- (i) Gilbert
- (j) Dioptre

**Q.6. What is the difference between Dam and Barrage? What benefits are obtained by constructing a big dam? (2, 8)**

**Q.7. Which of the following statements are True and which are False: (1 each)**

- 1) Pitch of the dog sound is greater than the pitch of the cat sound.
- 2) Ultraviolet light is visible but infrared light is not visible.
- 3) Earthquakes are the lamps illuminating the structure of the earth's exterior.
- 4) Electricity does not move through the wire but through a field around the wire.
- 5) A guava contains more vitamin C than an orange.
- 6) Sound travels faster in iron than in air.
- 7) Wheat Bridge is the name of an electrical circuit.
- 8) Morphine can cause constipation and lowering of blood pressure.
- 9) A concave lens is used for the correction of the Hyperphobia.
- 10) The nucleic acids are responsible for proteins synthesis in the human body.

**Q.8. Differentiate between the following pairs: (2 each)**

- (a) Telemeter and Multimeter
- (b) Perimeter and Altimeter
- (c) Periscope and Microscope
- (d) Nucleon and Photon
- (e) Cusec and Comet

**Q.9. Fill in the blanks: (1 each)**

- 1) The branch of zoology, which deals with the study of insects is called \_\_\_\_\_
- 2) The disease \_\_\_\_\_ is caused by the deficiency of Vitamin B1 (Thiamine).
- 3) Oil rises in a wick of oil lamp because of a property of matter, called \_\_\_\_\_
- 4) The production of generally identical reproduction is called as \_\_\_\_\_
- 5) \_\_\_\_\_ is the fastest planet of the solar system.
- 6) Mercury metal is \_\_\_\_\_ times heavier than water.
- 7) Relative density of milk is measured by an instrument known as \_\_\_\_\_
- 8) The temperature of a human body is measured by an instrument known as \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

9) Gold and silver are known as \_\_\_\_\_ metals.

10) The amount of ozone in the atmosphere is expressed in \_\_\_\_\_.

**Q.10. What is global warming? Is there a sunny side to global warming? If yes, explain.**

**(4, 6)**

**Q.11. Give scientific reasons of the following: (2 each)**

- a) Why do some people snore?
- b) Why do we sometimes sleep walk?
- c) Climber bends forward while climbing a mountain.
- d) The manhole covers are generally round.
- e) Roads are bent inwards on curves.

**Q.12. What are vitamins and minerals? Which vitamins and minerals play major role in the development of bones? (4, 6)**

**Q.13. what do the following scientific abbreviations stand for? (1 each)**

- (1) CRO
- (2) SARS
- (3) BOT
- (4) AMU
- (5) EMF
- (6) ADH
- (7) STP
- (8) GeV
- (9) NTP
- (10) CRT

**Q.14. Compare the columns A and B and write the correct answer from the column B corresponding to the column A (serial wise) in column C. (1 each)**

Column A   Column B   Column C

- (1) Geiger Muller Counter   Semi Conductor   (1)
- (2) Newton   Magnet   (2)
- (3) Addison   Electricity   (3)
- (4) Bardeen and Brattin   Radioactivity   (4)
- (5) Weber Fehner's Law   E.M Induction   (5)
- (6) Benjamin Franklin   Lightning Conductor   (6)
- (7) Decibel   Gravitation   (7)
- (8) Dr. Gilbert   Water   (8)
- (9) Henry Cavendish   Sound   (9)
- (10) Faraday   Non-conductor   (10)

**Q.15. Choose the best choice in the following statements:** 1) One of the countries

through which equator passes is: (a) Kenya

- (b) Malaysia
- (c) Malta
- (d) Pakistan

2) Copper can be converted into gold by:

- (a) Artificial radioactivity
- (b) heating
- (c) Electroplating
- (d) Chemical reaction

3) The three elements needed for healthy growth of plants are:

- (a) N, P, K
- (b) N, C, P
- (c) N, K,
- (d) N, S, P

4) Clocks, which moves with the velocities compareable with the velocity of light, run:

- (a) fast
- (b) slow
- (c) equal to the velocity of light
- (d) with zero velocity

5) Max Planck received the noble prize in Physics in 1918 for his discovery of:

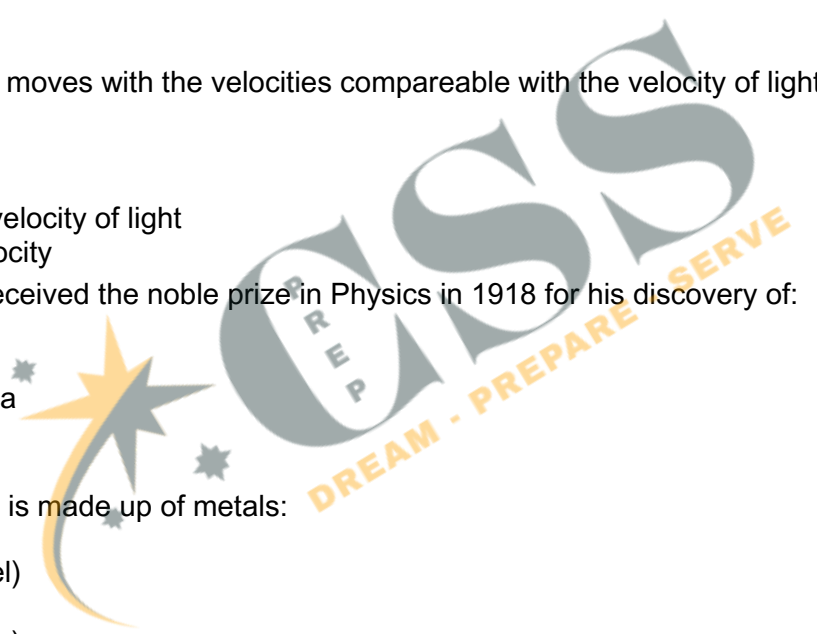
- (a) electron
- (b) energy quanta
- (c) photon
- (d) positron

6) Bronze medal is made up of metals:

- (a) (copper, nickel)
- (b) (copper, tin)
- (c) (copper, silver)
- (d) (copper, zinc)

7) Addison's disease is caused by the excessive secretion of:

- (a) Antiduretic Harmone
- (b) Luteinising Harmone
- (c) Melanophore stimulating Harmone
- (d) Adrenocorticotrophic Harmone



8) Development of calf muscles in ladies who wear high heels is a common example of:

- (a) Natural Selection
- (b) inheritance of acquired character
- (c) Use and disuse of organ
- (d) Artificial selection

9) Margalla Hill is a branch of:

- (a) Karakorum range
- (b) Hindukash range
- (c) Himalaya range
- (d) Nanga Parbat range

10) Humming bird belongs to a category called:

- (a) Ectotherm
- (b) Endotherm
- (c) Exotherm
- (d) Heterotherm.

