



**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION FOR**  
**RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT, 2014**  
**GENERAL KNOWLEDGE, PAPER-I**  
**(EVERYDAY SCIENCE)**

Roll Number

<b>TIME ALLOWED:</b>	<b>(PART-I MCQs)</b>	<b>80 MINUTES</b>	<b>MAXIMUM MARKS: 50</b>
<b>THREE HOURS</b>	<b>(PART-II)</b>	<b>100 MINUTES</b>	<b>MAXIMUM MARKS: 50</b>
<b>NOTE:</b> (i) <b>Part-II</b> is to be attempted on the separate <b>Answer Book</b> . (ii) Attempt <b>ONLY FIVE</b> questions from <b>PART-II</b> . <b>ALL</b> questions carry <b>EQUAL</b> marks. (iii) Candidate must write <b>Q. No.</b> in the <b>Answer Book</b> in accordance with <b>Q. No.</b> in the <b>Q. Paper</b> . (iv) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed. (v) Extra attempt of any question or any part of the attempted question will not be considered.			

**PART-II**

- Q. No. 2.** Discuss the contribution of Muslim scientists in the development of Astronomy, Algebra and Trigonometry. **(10)**  
**(3, 3<sup>1/2</sup>, 3<sup>1/2</sup> each)**
- Q. No. 3.** Give brief answers to the following questions: **(2 each)** **(10)**
- (a) Why do we bring our hands close to our mouth while shouting across to someone far away?  
(b) Why do we lean forward while climbing a hill?  
(c) Why does a swimming pool appear less deep than it actually is?  
(d) Why cannot petrol fire be extinguished by water?  
(e) Why do Australians celebrate their Christmas during summer?
- Q. No. 4.** Differentiate between: **(2 each)** **(10)**
- (a) Hypoglycemia and Hyperglycemia  
(b) Renewable and Non-renewable energy resources  
(c) Lava and Magma (d) Mist and Fog (e) Lunar Eclipse and Solar Eclipse
- Q. No. 5.** Briefly explain the working principle of the following: **(5 each)** **(10)**
- (a) Radar (b) Microwave Oven
- Q. No. 6.** Give brief explanations for following phenomena: **(2 each)** **(10)**
- (a) While watching a cricket match we see the ball struck a moment before we hear the sound of the bat hitting the ball.  
(b) A ship though made largely of steel, which is heavier than water, floats in water.  
(c) The colour of the same cloth when seen in electric light appears different from the colour when seen in day light.  
(d) Glass when heated cracks while metal does not.  
(e) Although each eye perceives a separate image, we do not see everything double.
- Q. No. 7.** Write short NOTES on the following: **(5 each)** **(10)**
- (a) Environmental effects of Fertilizer use. (b) Global Warming.
- Q. No. 8.** Differentiate between: **(2 each)** **(10)**
- (a) Smog and Smoke (b) Radiotherapy and Chemotherapy  
(c) Diastolic and Systolic blood pressure (d) Infection and Allergy  
(e) Conductors and Insulators
- Q. No. 9.** Briefly explain the function of following in human body: **(2<sup>1/2</sup> each)** **(10)**
- (a) Kidneys (b) Lymphatic system  
(c) Thyroid gland (d) Pituitary gland

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