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FEDERAL PUBLIC SERVICE COMMISSION  
 COMPETITIVE EXAMINATION-2023  
 FOR RECRUITMENT TO POSTS IN BS-17  
 UNDER THE FEDERAL GOVERNMENT  
**GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)**

Roll Number

TIME ALLOWED: THREE HOURS  
 PART-I(MCQS): MAXIMUM 30 MINUTES

PART-I (MCQS)  
 PART-II

MAXIMUM MARKS = 20  
 MAXIMUM MARKS = 80

- NOTE: (i) Part-II is to be attempted on the separate Answer Book.  
 (ii) Attempt ONLY FOUR questions from PART-II by 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) 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 question will not be considered.  
 (vii) Use of Calculator is not allowed.

**PART - II**  
**(SECTION - A)**

- Q. 2. (a) Define ceramic and nano-ceramic materials. Why the nano-ceramics show better properties than their ceramic counterparts? Write the applications of ceramic materials. (5)
- (b) What is 'Black Hole'? How black holes are formed and discovered? (5)
- (c) Write two applications of each of the following electromagnetic radiations: (5)
- (i) Ultraviolet (ii) Infra-red (iii) Microwaves  
 (iv) Radio waves (v) X-rays.
- (d) What is Wildfire? Explain its types, causes, spread and preventions. (5)(20)
- Q. 3. (a) (i) Why the bat and whale are considered as mammals? (5)  
 (ii) Write a note on liver juice 'Bile'.
- (b) How the urine is formed? Describe the role of kidney in excretion. (5)
- (c) (i) How a bacterial cell is different from a plant cell? (5)  
 (ii) What do you think cold-blooded animals are slowed down by low temperatures?
- (d) What is hepatitis, its types, causes, prevention, and cure? (5)(20)
- Q. 4. (a) What is the difference between fog and smog? What are the causes of smog and its effects on human health? Write short note on any one of the latest technologies to eliminate smog to avoid atmospheric pollution. (5)
- (b) What is the role of oxygen-demanding wastes in water pollution? How it can be prevented? (5)
- (c) What is the biosphere? Write a note on the 'Energy Resources' available in the biosphere. (5)
- (d) What are the different layers of the atmosphere? On what basis these layers are classified? In which layer 'Auroras' are formed and where do satellites orbit? (5)(20)
- Q. 5. (a) What are antioxidants and why are they used in foods? Write a short note on natural and synthetic antioxidants. (5)
- (b) How the carbohydrates, proteins, and fats are digested in humans? (5)
- (c) How does the Navstar GPS system work for different applications? (5)
- (d) (i) Differentiate between network and internet. (5)(20)  
 (ii) What is the difference among application, program and software?

**(SECTION - B)**

- Q. 6. (a) A telephone company charges initially Rs.0.50 and then Rs. 0.11 for every minute. Write an expression that gives the cost of a call that lasts N minutes. (5)

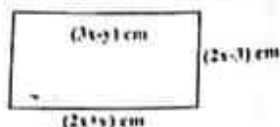


## **CSS 2023 GSA Paper page-2**

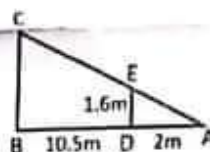
**GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)**

- (b) Find the missing number in the series below (5)
- (i) 1, 8, 4, 27, 9, ? (ii) 3, 6, 8, 16, 18, ?  $32^{*m}$  (iii) 2, 8, 512, ?
- (iv) 81, 9, 64, 8, ?, 12 (v) 6, 11, 21, 36, 56, ?

- (c) The perimeter of the rectangle given below is 114 cm. Find the area of the rectangle. (5)



- (d) Ahmad stands at point D, 2m in front of a spotlight at point A. He is 1.6m tall and is facing the wall of a building which is 10.5m away from him. How tall (BC) is his shadow on the wall of the building. (5)(20)



- Q. 7 (a) Ali is standing 10 meters away from a tree. The distance of his eyes from his feet is 1.5 meter. Given that the distance from his eyes to the top of the tree is 15 meters, find the height of the tree. (5)
- (b) Find out the correct word from the jumbled spellings given below. (5)  
LNUGEF, CKANS, CIREFE, EERAANMOGTP, MNIKPPU.
- (c) Draw and write the total number of lines of symmetry in a regular hexagon and octagon. How many lines of symmetry are there in a circle? (5)
- (d) The height of the Egyptian pyramid is 146.6 meters and a base length is 230.6 meters. Find the volume of that pyramid. (5)(20)

- Q. 8. (a) Ali buys an oven for Rs. 36800 and sells it at a gain of 8.5%. For how much does he sell it? (5)
- (b) A card is drawn at random from a box containing 12 cards numbered 1,2,3,4,5,.....12. Find the probability of drawing (i) '8'. (ii) an even number, (iii) a perfect square, (iv) a negative number and (v) a number less than 13. (5)
- (c) The scintillation nuclear radiation detector detects the alpha rays per second. When the energy of the alpha rays ( $E_a$ ) in MeV increases, the number of counts ( $N_c$ ) on the detector also increases linearly as shown in the table below. (5)

$E_a$ (MeV)	0.25	0.45	0.65	1	1.4
$N_c$	17500	23500	29500	40000	52000

Draw the graph of  $N_c$  as a function of  $E_a$  (MeV) and find the energy of unknown alpha ray if the number of counts are 31600.

- (d) The  $y$  is directly proportional to  $x^2$  and  $y = m$  for a particular value of  $x$ . Find an expression for  $y$  in terms of  $m$ , when this value of  $x$  is doubled. (5)(20)

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## PART - I

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## PART - II

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### (SECTION - A)

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Q. 2.

- (a) What do you know about Volcanoes? Discuss the causes and effects of volcanic eruptions. (5)
- (b) Differentiate between renewable and non-renewable sources of energy. Briefly explain wind energy, solar energy and biofuels. (5)
- (c) What is a Tornado? How is it formed and what are the effects of tornadoes? Explain briefly. (5)
- (d) Discuss various factors which affect the variations in the climate of a place. (5)(20)

Q. 3.

- (a) Discuss Vaccination, types of Vaccines, their side effects and effectiveness. (5)



- (b) What is Polio? Discuss its symptoms, causes of spreading, prevention and vaccine. (5)
- (c ) What do you understand by the DNA and RNA? (5)
- (d) What is Solid Waste? Discuss the main issues of Solid Waste Management in our country? (5)(20)

Q. 4.

- (a) Define the term Water Pollution. What indicators are used to measure the quality of water? (5)
- (b) What do you understand by the term Population Planning? Point out the different benefits of Population Planning. (5)
- (c ) Discuss the possible negative effects that Pakistan may face due to Global Warming and Climate Change. What steps may be helpful to control the climate change? (5)
- (d) What is Radioactivity? Differentiate between natural and artificial radioactivity. (5)(20)

Q. 5.

- (a) What do you understand by the term Remote Sensing? Write its basic principle. Give its important applications. (5)
- (b) Explain the Optical Fiber. Explain how Fiber Optic Communication works? (5)
- (c ) Briefly explain the working and structure of a Cell Phone. (5)
- (d) Explain Artificial Intelligence. What do you understand by the term Robotics? (5)(20)

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**(SECTION - B)**

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**Q. 6.**

- (a) For his morning walk Aslam went 110 meters towards east from his house and then turned right to keep walking for 40 meters before turning right again. After continuing to walk for 50 more meters, he turned right again and kept walking for another 120 meters before he sat down on a bench at the park. How far was the bench located from his house? (5)
- (b) The income of a company decreased by 10% and 15% in two successive years.

What is the percentage of decrease in income after two years? (5)

(c) What do you understand by Mental Ability Scales? Differentiate between Aptitude and Intelligence? (5)

(d) Discuss the factors affecting Intelligence. (5)(20)

### Q. 7.

(a) The sum of three consecutive odd numbers is 273. What are the three odd numbers? (5)

(b) Find the missing number in the given series.

(i) 4, 16, 36, 64, ?, 144. (ii) 30, 29, 27, ?, 20, 15 (iii) 1, 7, 15, 25, ?, 51 (iv) 0, 2, 6, 12, 20, 30, ? (v) 48, 24, 72, 35, 108, ? (5)

(c) Find out the correct word from the given jumbled spellings.

(i) THRSI (ii) GNDREA (iii) SCHAMOT (iv) ONLNDO (v) HIODALY (5)

(d) Sara's mother is 6 times older than Sara, whereas her brother Ali is twice as old as Sara. In three years' time the sum of their ages will be 72. How old are Sara, Ali and their mother now? (5)(20)

### Q. 8.

(a) What do you understand by Sampling? Discuss Non-Probability Sampling. (5)

(b) Aslam is willing to use the stylish ceramic tiles in the lounge of his under-construction house. The shape of the tile is a right triangle, having the lengths of two legs of 12 cm and 4 cm. Each tile costs Rs. 15. How much will it cost to fill the lounge of 8 meters length and 6 meters width with these tiles? (5)

(c) During a sale a clerk was putting new price tags on each item. On one sweater, he accidentally raised the price by 20%, instead of lowering the price by 20%. As a result the price on the tag was Rs. 80 too high. What was the original price of the sweater? (5)

(d) If in a certain language, BROTHER is written as QDGSNQA, then in the same language, SISTER would be written as ---? (5)(20)

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