

CSS Past Paper General Science & Ability (2023)

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FEDERAL PUBLIC SERVICE COMMISSION **COMPETITIVE EXAMINATION-2023** FOR ECRUITMENT TO POSTS IN BS-17 **UNDER THE FEDERAL GOVERNMENT**

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

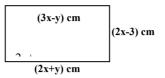
TIME AL [®] PART-I(N	LOWED: THREE HOURS ICQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = MAXIMUM MARKS =		
NOTE: (i) (ii)	Part-II is to be attempted on the separate A Attempt ONLY FOUR questions from		D questions from EACH SEC	CTION.	
(***)	ALL questions carry EQUAL marks.				
(iii) (iv)	All the parts (if any) of each Question mu Write Q. No. in the Answer Book in acco				
(v)	No Page/Space be left blank between the	answers. All the blank pages	of Answer Book must be cross	sed.	
(vi) (vii)	Extra attempt of any question or any part Use of Calculator is not allowed.	of the question will not be co	nsidered.		
	<u>(S</u>	<u>PART – II</u> ECTION – A)			
Q. 2. (a)	Define ceramic and nano-ceramic mattern than their ceramic counterparts? Write	-		(5)	
(b)	What is 'Black Hole'? How black hole	s are formed and discovered	1?	(5)	
(c)	Write two applications of each of the fe	ollowing electromagnetic ra	idiations:	(5)	
	(i) Ultraviolet (i	i) Infra-red (iii)	Microwaves		
	(iv) Radio waves (v	v) X-rays.			
(d)	What is Wildfire? Explain its types, car	uses, spread and prevention	s.	(5)(20	
Q. 3. (a)	(i) Why the bat and whale are considered as mammals?				
	(ii) Write a note on liver juice 'Bile'.				
(b)	How the urine is formed? Describe the role of kidney in excretion.				
(c)	(i) How a bacterial cell is different from a plant cell?				
	(ii) What do you think cold-blooded animals are slowed down by low temperatures?				
(d)	What is hepatitis, its types, causes, prev	vention, 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.				
(b)	What is the role of oxygen-demanding wastes in water pollution? How it can be prevented?				
(c)	What is the biosphere? Write a note on the 'Energy Resources' available in the biosphere.				
(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?				
Q. 5. (a)	What are antioxidants and why are they used in foods? Write a short note on natural and synthetic antioxidants.				
(b)	How the carbohydrates, proteins, and fats are digested in humans?				
(c)	How does the Navstar GPS system work for different applications? (5				
(d)	(i) Differentiate between network and internet.				
	(ii) What is the difference among appli	cation program and softwa	re?		

(SECTION – B)

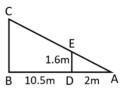
A telephone company charges initially Rs.0.50 and then Rs. 0.11 for every minute. Write an (5) Q. 6. (a) expression that gives the cost of a call that lasts N minutes.

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



(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.



- Q. 7 (a) Ali is standing 10 meters away from a tree. The distance of his eyes from his feet is 1.5 (5) meter. Given that the distance from his eyes to the top of the tree is 15 meters, find the height of the tree.
 - (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. (5) How many lines of symmetry are there in a circle?
 - (d) The height of the Egyptian pyramid is 146.6 meters and a base length is 230.6 meters. Find (5)(20) the volume of that pyramid.
- 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 (5) 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.
 - (c) The scintillation nuclear radiation detector detects the alpha rays per second. When the (5) energy of the alpha rays (E_{α}) in MeV increases, the number of counts (N_c) on the detector also increases linearly as shown in the table below.

E_{α} (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_{α} (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 (5)(20) for y in terms of m, when this value of x is doubled.

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(5)(20)

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