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## FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2024 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

990810

	GENERAL KNOWLEDGE-I (GE)	NERAL SCIENCE	& ABILITY			
	TIME ALLOWED: THREE HOURS PART-I (MCQs) : MAXIMUM 30 MINUTES	(PART-I MCOs)	MAXIMUM MARKS: 20 MAXIMUM MARKS: 80			
	NOTE: (i) First attempt PART-I (MCQs) on ser	(PART-II)	Theat which shall be taken back			
	after 30 minutes.	parate OMR Answer	sneet which shan be taken back			
	(ii) Overwriting/cutting of the options/answers will not be given credit.  (iii) There is no negative marking. All MCQs must be attempted.					
	(m) There is no negative marking. All MC	Qs must be attempted	2+2+2+2*2*2*2			
	PART-I MCOs	(COMPULSORY)				
O	1. (i) Select the heat and	nista Pay on th	e OMR Answer Sheet, (20x1=20			
Y	<ul><li>(i) Select the best option/answer and fill in the ap</li><li>(ii) Answers given anywhere else, other than ON</li></ul>	IR Answer Sheet, will	not be considered.			
	In fish liver oil there is:		V 5			
	(A) Vitamin A only (B) Vitamin D only (C) Vi	tamin A and vitamin E	(D) Vitamin A and Vitamin D			
	when day and night are equal?					
	(A) 23 <sup>rd</sup> February and 21 <sup>st</sup> September	(B) 21st march and 23	$S^{rd}$ September $Y = 2 \pi Y \qquad \pi Y^2 \qquad \pi \left(3 \times 3 \times 3 \times 3 \times 4 \times 3 \times 3 \times 3 \times 3 \times 3 \times $			
	(C) 23 <sup>rd</sup> march and 21 <sup>st</sup> September	(D) None of these	1= 2 TY TYL 11(80)			
	What are total number of combinations of 09 thi	ngs taken 03 at a time				
	(A) 18 (B) 27	(C) 48	(D) 84			
	The chemical formula for alum is:	(0)				
	(A) KAl(SO <sub>4</sub> ) <sub>2</sub> ·12 H <sub>2</sub> O (B) KSi(SO <sub>4</sub> ) <sub>2</sub> ·12 H <sub>2</sub> O	(C) KAl(SO <sub>4</sub> )	$_{2}$ ·8 H <sub>2</sub> O (D) None of thes			
	If the radius of a circle is increased three times the	to area is increase	ed:			
	(A) Three times (D) Sind	(C) Nine time	s (D) None of thes			
	(A) Three times (B) Six times					
	One degree of longitude on the equator is equal t	(C) 39 miles	(D) 60 miles			
	(A) 49 miles (B) 69 miles	(C) 39 lilles	(=)			
	The protein molecule is made of:	(D)	Long range chain of amino acids			
	(A) Alkaloids (B) Nucleosides (C) Short range ch	iain of amino acids (D)	Long range chain of annie acras			
	The minimum amount of vitamin stored in the hu	uman body is of:	(D) Vitamin A			
	(A) Vitamin D (B) Vitamin C	(C) Vitamin E	(D) Vitalilli A			
	The isotopes of any element contain equal number	er of:	(D) Name of these			
		(C) Both electrons and	d protons (D) None of these			
	The pH of soil is raised using:	×	(D) N 641			
	(A) Lime stone (B) Gypsum	(C) Urea	(D) None of these			
	Which of the following is used for measuring dist	ance?	(D) G :			
	(A) Coulomb (B) light year	(C) Farad	(D) Curie			
	Which of the following contains a greater number	r of carbon atoms in o	one mole of each compound?			
	(A) Chloroform (B) Methanol	(C) Water	(D) Ethanol			
	A pencil dipped in water appears bent due to:					
	(A) Reflection (B) Diffraction	(C) Refraction	(D) None of thes			
	Fishes die outside the water due to:		~			
	(A) Carbon mono oxide (B) Oxygen	(C) Sun light	(D) Non-absorption of oxygen			
	In dementia a person:					
	(A) Loses his weight	(B) Loses thin	king and writing			
	(C) Loses thinking, remembering, and reasoning	(D) All of thes	se			
	Earthquake is measured by the instrument:					
	(A) Wave guide (B) Barometer	(C) Seismograph	(D) Hydrometer			
	(A) Wate Bares	( )	(D) Hydronieter			
	A cyclone is formed: (A) When the warm air rises upward over the ocean	(B) When moist air	rises upward over the ocean			
	(C) When moist air pressed downward over the ocean	(D) When warm m	oist air rises upward over the ocea			
1	(C) When moist air pressed downward over the ocean Why red light is used in traffic signal for danger?	(~)	one an rises upward over the ocea			
	Why red light is used in traine signar for danger.	(B) Due to high fre	Milenay			
	(A) Due to short wavelength	It has long way	relenate and short Co			
	(C) It has long wavelength and high frequency	(D) It has long was	velength and short frequency			
•	The heavy water is:	(D) Donated Line II	0 - 1			
-	(A) Denoted by D <sub>2</sub> O and contains simple hydrogen	(B) Denoted by H <sub>2</sub>	O and contains deuterium			
-	(C) Denoted by D <sub>2</sub> O and contains deuterium	(D) Denoted by H <sub>2</sub>	O and contains simple hydrogen			
	The ionosphere is located within the thermosphere	e and extends:				
-	(A) From 60-300 km above the Earth's surface	(B) From 50-200 k	cm above the Earth's surface			
	From 50 200 km above the Farth's surface	(D) None of the ab	nove			

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

## PART-II

	<u>PART – II</u>			
NOTE: (i) (ii)	(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION ALL questions carry EQUAL marks.			
(iv)				
(v)	No Page/Space be left blank between the answers. All the blank pages of Answer Bool crossed.	k must be		
(vi) (vii)	선생님 전문에 대한 대한 대한 전문에 있는데 보고 있			
	(SECTION – A)			
Q. 2. (a)	What is the Tuberculosis and Hepatitis? Explain briefly.			
<b>(b)</b>	Explain the mechanism of Fiber Optic Cable for signal. Explain its construction.	(5)		
(c)	Explain the difference between Middle Latitude Cyclones and Tornadoes.	(5)		
(d)	What is difference between the Ionic and Covalent bonding? Give examples.	(5) (20)		
Q. 3. (a)	What is difference between Plastics and Elastics? Explain briefly.			
(b)	What is role of Remote sensing and GIS in environmental Science? Discuss briefly.			
(c)	What are Kepler laws related to the motion of planets?	(5)		
(d)	What is difference between preservatives and antioxidants? Discuss briefly with examples.	(5) (20)		
Q. 4. (a)	(a) What is role of Carbohydrates and Vitamins in the body? Discuss briefly.			
<b>(b)</b>	Discuss the functioning of Liver and Pancreas.			
(c)	What are the standards of drinking water? How Heavy Metals in the water affect the living organisms?			
(d)	What is radioactivity? Discuss the laws of radioactivity. Name two radioactive elements.	(5) (20)		
		1		
Q. 5. (a)	What are the Plant nutrition elements? Enumerate them.	(5)		
(b)	What is difference between software and hardware? Give five examples of each.			
(c)	What are the types of earthquake waves? Discuss them.			
(d)	What are longitudinal waves, electromagnetic and Gamma radiations? Discuss them.	(5) (20)		
des	total (SECTION - B) 20-120 3+a			
Q. 6. (a)				
(b)	Find out the correct word from the given jumbled spellings.  (i) UCTREUTRS (ii) LOVONAC (iii) CIHPROSTATAC (iv) YNTIAUMH (v) NNTHORER	(5)		
(c)	Find the missing numbers in the series below (i) 121, 11, 81, 9, ?, 7 (ii) 100, 50, 25, ?, 6.25 (iv) 2, 5, 12, 24, 48, ? (v) 44, 22, 66, 33, 132, ? (iii) 4, 9, 64, 125, 1296, ?	(5)		
(d)	If the sum of three digit number is 15 and sum of 10 <sup>th</sup> and unit digit is 12. The difference of unit digit from 10 <sup>th</sup> digit is equal to 02. What is the three digit number?	(5) (20)		

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

- (5) A man travels over the path of a right-angle triangle having base and hypotenuse 4 and 5 kilometers, respectively. After a complete round he continues in the same direction for 6 km and then turns at 90 degree and continues for another 8 km. How long he has travelled and how far he is from his starting point? Q. 7 (a)
- $\mathfrak{S}$ Hassan, Ali, Akbar, Nasir and Shahbaz are classmates having different pocket money. Hassan's pocket money is one third as much as of Ali and Ali has five times as much as Akbar. Akbar has thrice as much as Nasir and Shahbaz gets equal to Nasir and that of Ali. If they get Rs. 8000 then find the pocket money of each. **e**
- What will be the surface area and volume of a sphere if it has a radius of 7 m? **②**
- (5)(20)Distribute Rs. 4320 among Zain, Aslam and Ashraf in such a way that if zain gets 2 parts then Aslam gets three parts, whereas Ashraf gets seven parts. Ð
- (5) Q. 8. (a) A man purchases a car in an amount of Rs. 2400,000 in which he pays one-fourth extra as profit. Find the original amount of car and the amount of profit.
- 3 Twelve men can complete a job in twenty-four days. After four days four person quit. In how many days this job will be completed by the remaining persons. **@**
- 3 The shadow of a 10 m tall tree is falling on a high rise building and its height is 100 m. If the tree is 20 m away from the wall, at what distance from the wall is the light
- There are three cars and start moving in such a way that car A and B are moving opposite with speed 60 and 100 km/h. Car C is moving perpendicularly to both with speed 80 km/h. What is distance after 15 minutes between (i) A and B (ii ) A and C (iii) B and C? Ð

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