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(C) From 50-300 km above the Earth's surface

EDERAL PUBLIC SERVICE COMMISSION TIVE EXAMINATION-2024 FOR RECRUITMENT TO IN BS-17 UNDER THE FEDERAL GOVERNMENT

KNOWLEDGE-I	(GENERAL	SCIENCE	& ABILITY)
	OLITERAL	DCILITOL	CADILLII,

	TIME ALLOWED: THRE		(PART-I MCQs)		
	PART-I (MCQs) : MAX		,		MARKS: 80
	NOTE: (i) First attempt PA		arate OMR Answer S	Sheet which sh	all be taken back
	after 30 minutes				
	, ,	ıtting of the options/aı	e e e e e e e e e e e e e e e e e e e		
	(iii) There is no neg	ative marking. All MC	Qs must be attempted	•	
		PART-I (MCQs)	(COMPULSORY)		
0	.1. (i) Select the best option/ar	nswer and fill in the apr	propriate Box 🔲 on th	e OMR Answe	er Sheet. (20x1=20)
×	(ii) Answers given anywho				
	•		,		
	In fish liver oil there is:	'. ' D 1 (0) W.	·	(D) 17'' . A	1177 : D
	(A) Vitamin A only (B) V	• • • •	amin A and vitamin E	(D) Vitamin A	and Vitamin D
	When day and night are eq		(D) 21st march and 2	2rd Contombon	
	 (A) 23rd February and 21st S (C) 23rd march and 21st Septe 		(B) 21st march and 2(D) None of these	3 rd September	
	What are total number of c		` '	09	
	(A) 18	(B) 27	(C) 48	E.	(D) 84
	The chemical formula for a	` /	(C) 40		(D) 04
	(A) $KAl(SO_4)_2 \cdot 12 H_2O$ ((C) KAl(SO ₄)2.8 H2O	(D) None of these
	If the radius of a circle is in			,	(D) None of these
	(A) Three times	(B) Six times	(C) Nine time		(D) None of these
	One degree of longitude on		. ,		(B) I tolle of these
	(A) 49 miles	(B) 69 miles	(C) 39 miles		(D) 60 miles
	The protein molecule is ma				(D) oo miles
	(A) Alkaloids (B) Nucleoside		ain of amino acids (D) Long range cl	nain of amino acids
	The minimum amount of vi			, = 8 8	
	(A) Vitamin D	(B) Vitamin C	(C) Vitamin	E	(D) Vitamin A
	The isotopes of any element	• •			
	(A) Protons	(B) Neutrons	(C) Both electrons an	nd protons	(D) None of these
).	The pH of soil is raised usin	ig:			
	(A) Lime stone	(B) Gypsum	(C) Urea		(D) None of these
•	Which of the following is us	ed for measuring dist	ance?		
	(A) Coulomb	(B) light year	(C) Farad		(D) Curie
	Which of the following cont	ains a greater numbe	r of carbon atoms in	one mole of ea	ch compound?
	(A) Chloroform	(B) Methanol	(C) Water		(D) Ethanol
8.	A pencil dipped in water ap				
	(A) Reflection	(B) Diffraction	(C) Refractio	'n	(D) None of these
٠.	Fishes die outside the water				
	(A) Carbon mono oxide	(B) Oxygen	(C) Sun light	(D) Non-abs	sorption of oxygen
5.	In dementia a person:				
	(A) Loses his weight			nking and writi	ng
	(C) Loses thinking, rememb		(D) All of the	ese	
) .	Earthquake is measured by		(0) 0 1	(D) II	•
,	(A) Wave guide	(B) Barometer	(C) Seismograph	(D) H	ydrometer
•	A cyclone is formed:	1 .1	(D) III		.1
	(A) When the warm air rises	-	(B) When moist ai	•	
,	(C) When moist air pressed do			noist air rises up	oward over the ocean
5.	Why red light is used in tra (A) Due to short wavelength	_		raguanay	
	, ,		(B) Due to high f		hort fraguancy
,	(C) It has long wavelength ar The heavy water is:	ia mgn nequency	(D) It has long wa	avetengui and s	non nequency
•	(A) Denoted by D ₂ O and co	ntaine eimnla hydrogar	n (B) Denoted by H	(O) and contain	e dautarium
	(C) Denoted by D ₂ O and co		(D) Denoted by H		
)	The ionosphere is located w			120 and Contain	is simple hydrogen
, .	(A) From 60-300 km above	-) km above the	Farth's surface

(D) None of the above

NOTE: (i)

PART – II

Part-II is to be attempted on the separate Answer Book. Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. (ii) **ALL** questions carry **EQUAL** marks. All the parts (if any) of each Question must be attempted at one place instead of at different places. (iii) Write O. No. in the Answer Book in accordance with O. No. in the O.Paper. (iv) (v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed. Extra attempt of any question or any part of the question will not be considered. (vi) (vii) Use of Calculator is not allowed. (SECTION – A) What is the Tuberculosis and Hepatitis? Explain briefly. Q. 2. (a) (5) Explain the mechanism of Fiber Optic Cable for signal. Explain its construction. (5) **(b)** Explain the difference between Middle Latitude Cyclones and Tornadoes. (c) (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. (5) What is role of Remote sensing and GIS in environmental Science? Discuss briefly. **(b)** (5) (c) What are Kepler laws related to the motion of planets? (5) What is difference between preservatives and antioxidants? Discuss briefly with (5) (20) (d) examples. Q. 4. (a) What is role of Carbohydrates and Vitamins in the body? Discuss briefly. (5) Discuss the functioning of Liver and Pancreas. (b) (5) What are the standards of drinking water? How Heavy Metals in the water affect the (c) (5) living organisms? What is radioactivity? Discuss the laws of radioactivity. Name two radioactive (5)(20)elements. What are the Plant nutrition elements? Enumerate them. (5)Q. 5. (a) What is difference between software and hardware? Give five examples of each. **(b)** (5) What are the types of earthquake waves? Discuss them. (c) (5) (d) What are longitudinal waves, electromagnetic and Gamma radiations? Discuss them. (5)(20)(SECTION - B)Q. 6. (a) If the sum of four numbers is 105. When 03 is added to a number, twice of another (5) number, five times of third number and fourth number become equal to each other. What are these numbers in ascending order? **(b)** Find out the correct word from the given jumbled spellings. (5) (i) UCTREUTRS (ii) LOVONAC (iii) CIHPROSTATAC (iv) YNTIAUMH (v) NNTHORER Find the missing numbers in the series below (5) (c) (iii) 4, 9, 64, 125, 1296, ? (i) 121, 11, 81, 9, ?, 7 (ii) 100, 50, 25, ?, 6.25 (iv) 2, 5, 12, 24, 48, ? **(v)** 44, 22, 66, 33, 132, ? (d) If the sum of three digit number is 15 and sum of 10th and unit digit is 12. The (5) (20) difference of unit digit from 10th digit is equal to 02. What is the three digit number?

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

- **Q.7 (a)** A man travels over the path of a right-angle triangle having base and hypotenuse 4 (5) 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?
 - (b) Hassan, Ali, Akbar, Nasir and Shahbaz are classmates having different pocket (5) 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.
 - (c) What will be the surface area and volume of a sphere if it has a radius of 7 m? (5)
 - (d) Distribute Rs. 4320 among Zain, Aslam and Ashraf in such a way that if zain gets 2 (5) (20) parts then Aslam gets three parts, whereas Ashraf gets seven parts.
- **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.
 - (b) Twelve men can complete a job in twenty-four days. After four days four person (5) quit. In how many days this job will be completed by the remaining persons.
 - (c) The shadow of a 10 m tall tree is falling on a high rise building and its height is 100 (5 m. If the tree is 20 m away from the wall, at what distance from the wall is the light source?
 - (d) 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?
