

FEDERAL PUBLIC SERVICE COMPETITIVE EXAMINATION-2024 FOR RECRUITMENT TO MPETITIVE EXAMINATION-2022 RECRUITMENT POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT POSTS IN BS-17 UNDER THE FEB. SCIENCE & ABILITY) GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

Roll Number

MAXIMUM MARKS: 20

PART-I (MCQs) : MAXIMUM 30 MINUTES (PART-II) MAXIMUM MARKS: 80 PART-I (MCQs) : MAXIMUM 30 MINUTES | 0 OMR Answer Sheet which shall be taken back NOTE: (i) First attempt PART-I (MCQs) on separate OMR Answer Sheet which shall be taken back

(ii) Overwriting/cutting of the options/answers will not be given credit.

	(ii) Overwriting children (iii) Overwriting children (iii) There is no negative marking. All MC	Qs mt	ist be attempt	ed.	
L	PART-I (MCQs)				
0.	1. (i) Select the best option/answer and fill in the app	oropria	ite Box 🔳 on	the OMR Ans	wer Sheet. (20x1=20)
Q.	(ii) Answers given anywhere else, other than OM	R Ans	wer Sheet, wi	Il not be consi	dered.
1.	In fish liver oil there is: (A) Vitamin A only (B) Vitamin D only (C) Vit	amin /	A and vitamin	E (D) Vitamin	A and Vitamin D
2.	When day and night are equal?				
~ -	(A) 23 rd February and 21 st September			23rd September	cr
	(C) 23 rd march and 21 st September		lone of these		
3.	What are total number of combinations of 09 thin	ngs tal	ken 03 at a tir	me?	A salar
	(A) 18 (B) 27		(C) 48		(D) 84
4.	The chemical formula for alum is:				/
7.	(A) KANSO 1-12 H-O (B) KSi(SO4)-12 H-O		(C) KAI(SC		(D) None of these
5.	If the radius of a circle is increased three times th	en its	area is increa	ised:	man at a confidence
	(A) Three times (B) Six times		(C) Nine in	nes	(D) None of these
6.	One degree of longitude on the equator is equal to	o a dis	tance of:		(D) (0 iles
0.	(A) 49 miles (B) 69 miles		(C) 39 mile:	S	(D) 60 miles
7.				J	1 Coming acids
	(A) Allesloide (B) Nucleosides (C) Short range ch	ain of	amino acids (I) Long range	chain of amino acids
8.	The minimum amount of vitamin stored in the ne	ıman l	July 15 Or.		(D) Vitamin A
	(A) Vitamin D (B) Vitamin C		(C) Vitamin	E	(D) Vitaliani
9.	The isotopes of any element contain equal number	r of:	oth electrons	and protons	(D) None of these
	(A) Protons (B) Neutrons	(C) B	oth electrons	ind protons	The second section and the second
10.			(C) Urea		(D) None of these
	(A) Lime stone (B) Gypsum	ance?	(0) 0100		
11.	Which of the following is used for measuring dist. (A) Coulomb (B) light year	ance.	(C) Farad		(D) Curie
72.00	(A) con the material a greater number	of car	rbon atoms in	one mole of	ach compound?
12.	(A) Chloroform (B) Methanol		(C) Water		(D) Ethanol
	(A) Choronal to water appears bent due to:				(D) Mary of those
13.	(A) Reflection (B) Diffraction	1	(C) Refraction	on	(D) None of these
1.4	(A) Refrection			(D) N	tinn of avviago
14.	(A) Carbon mono oxide (B) Oxygen	(C) Si	un light	(D) Non-a	osorption of oxygen
15.			(D) I (I	intring and use	tina
15.	(A) I see his weight		(B) Loses in (D) All of th	inking and wri	ung
	t ease thinking remembering, and reasoning		(D) An of th	ese	
16.	reath analysis measured by the instrument.	(C) C	.i.a.a.aranb	(D)	Hydrometer
10.	(A) Wave guide (B) Barometer	(C) Se	eismograph	(D)	riyurometer
17.		(B)	When moist a	ir rises unward	over the ocean
		(D)	When warm,	moist air rises 1	pward over the ocean
		1000			NTO .
18.	Why red light is used in talk (B) Due to high frequency				
	(A) Due to short wavelength(C) It has long wavelength and high frequency	(D) It has long wavelength and short frequency			
	CONT. T. CONT. CONT. SOFT.		2-4		Jantonines
19.	The heavy water is: (A) Denoted by D ₂ O and contains simple hydrogen	(B)	Denoted by I	I ₂ O and contain	ns cimple hydrogen
	(A) Denoted by D ₂ O and contains deuterium	(D)	Denoted by I	12O and contai	ns simple hydrogen

20.

(C) Denoted by D2O and contains deuterium

The ionosphere is located within the thermosphere and extends: (A) From 60-300 km above the Earth's surface (C) From 50-300 km above the Earth's surface

(B) From 50-200 km above the Earth's surface (D) None of the above

Page 1 of 3

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY) PART – II

	Trace of the state	SECTION.
()	Attempt ONLY FOUR questions from ALL questions carry EQUAL marks. ALL questions carry EQUAL marks. ALL questions carry EQUAL marks.	laces.
	(SECTION - A)	
Q. 2. (a)	What is the Tuberculosis and Hemistica Explain briefly.	(5)
(b)	Explain the mechanism of Fiber Optic Cable for signal. Explain its construction.	(5)
(c)	Explain the difference between Middle Latitude Cyclones and Tomadoes.	(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)
(b)	What is role of Remote sensing and GIS in environmental Science? Discuss briefly.	(5)
(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)	What is role of Carbohydrates and Vitamins in the body? Discuss briefly.	(5)
(b)	- Danctens	(5)
(c)	What are the standards of drinking water? How Heavy Metals in the water the standards of drinking water?	
(d)	What is radioactivity? Discuss the laws of radioactivity. Name two radioactive elements.	(5) (20)
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.	(5)
(c)	What are the types of earthquake waves? Discuss them.	(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 number, five times of third number and fourth number become equal to each other. What are these numbers in ascending order?	(5)
(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 th and unit digit is 12. The difference of unit digit from 10 th digit is equal to 02. What is the three digit number?	(5) (20)

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 and 5 kilometers, respectively. After a complete round he continues for another 8 km. How direction for 6 km and then turns at 90 degree and continues for another 8 km. How direction for 6 km and then turns at 90 degree and continues for another 8 km. How direction for 6 km and then turns at 90 degree and continues for another 8 km. How
 - (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?

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