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FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2021 FOR ECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

027088

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

MAXIMUM MARKS = 20 TIME ALLOWED: THREE HOURS PART-I (MCQS) MAXIMUM MARKS = 80 PART-I(MCQS): MAXIMUM 30 MINUTES **PART-II** NOTE: (i) 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. 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 Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper. (iv) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed. (v) Extra attempt of any question or any part of the question will not be considered. (vi) (vii) Use of Calculator is not allowed.

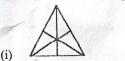
	PART – II	
	(SECTION – A)	(5)
Q. 2. (a)	Differentiate between a star and a planet. What is the magnitude of a star and how the color of	(3)
	stars is correlated with their temperatures?	(5)
(b)	stars is correlated with their temperatures? "Semiconductors are the Brains of Modern Electronics". Explain in detail what this quotation	1
	means.	(5)
(c)	Briefly describe the most popular and accepted medy about the original explain the What are the advantages and limitations of renewable energy resources? Briefly explain the	(5)(20)
(d)	What are the advantages and infinations of renewater energy prospects of non-conventional energy resources in Pakistan.	
	prospects of non-conventional chergy recourses	
	the tracking between cells, tissues and organs.	(5)
Q. 3. (a)	Explain with examples the relationship between cells, tissues and organs. Explain the differences in structure & function between a cell wall and a cell membrane. Explain the differences in structure & function between a cell wall and a cell membrane.	(5)
(b)	Explain the differences in structure & function between a cen want and a constructure in the What is meant by transpiration? Explain in detail the significance of leaf structure in the	(5)
(c)	What is meant by transplication: Explain in details to	(5)(20)
(I)	process of transpiration. What is meant by the term double circulation? Briefly describe how the heart is adapted to	(5)(20)
(d)	keep blood flowing in a double circulation.	
	있는 것 없는 사람들이 있는 것이 있는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이다. 그래요 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이다. 그렇게 되었다	
	What is the sequence of strata of atmosphere and on what factors does it depends?	(5)
Q. 4. (a)	What is the sequence of strata of atmosphere and of what take the sequence of strata of atmosphere and of what take the sequence of strata of atmosphere and of the sequence of strata of strata of the sequence of strata of strata of the sequence of strata of st	(5)
(b)	Describe water cycle and briefly explain the major processes involved in various components. What is the Difference between asthenosphere and lithosphere? Explain various components	(5)
(c)	C1141	(5)(30)
(d)	Differentiate between food contaminants and food adulterants.	(5)(20)
(u)		
	Define the term "malnutrition". Elaborate its major causes and consequences.	(5)
Q. 5. (a)	the after the days decomposes due to the glown of fung.	(5)
(b)		(5)
(c) (d)	Differentiate between natural and artificial satellites. Briefly describe the working of	(5)(20)
(u)	communication satellites with some applications.	
	(SECTION – B)	
	A man is now 3 times as old as his son. In ten (10) years time, the sum of their ages will be	(5)
Q. 6. (a)	11 the man when his son Was DOFD!	(-)
	How and tiles of 20cm ² will be required to have a footpath 1m wide carried around the	(5)
(b)	11 C and long and 14m broad?	
()	The diagon with his family at a residualit which offers a role discount of root.	(5)
(c)	to 1 miles of the food that they order was RS.13000/ Given that there was a service	
	6 100% and GCT is 17% calculate the total amount of money he has to pay.	
(d)	16 It was a malled for 45 minutes at the rate of 5km/n and then ran for half an nour at a	(5)(20)
(u)	Mr. Khawaja waked for 45 minutes at a certain speed. At the end of that time he was 6km away from the starting point. How fast did	

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- Q. 7 (a) A child went 90m towards East, and then he turned Right and went 20m. Subsequently he (5) turned Right and after going 30m he reached his uncle's house. From there he went 100m to his North. Determine how far he is from his starting point.
 - (b) The average of 11 numbers is 63, that of the first 6 numbers are 60 and that of the last 6 (5) numbers are 65. Find the 6th number.
 - (c) The following table shows some values of 'x' and the corresponding values of 'y' where, (5) $y = x^3 - 3x - 10$.

Complete the table and draw a graph between 'x' and 'y' to find the value of 'y' when x=1.8 and value of 'x' when y=10.

- (5)(20)Mr. Raheel invests Rs.60000/- in an account that earns simple interest. At the end of 5 years, the investment is worth Rs.85000/-. Calculate the rate of simple interest per year.
- (5) Find out the correct word from the given jumbled spellings. Q. 8. (a) (iv) RAMYR (v) RYUHR (iii) TYLEAL (i) UORSEIS (ii) REGAHT
 - (5) Find the number of triangles in the following two images.





- Calculate the total area and perimeter of the given shape. (c)
- (5)



- (5)(20)Find the missing numbers in the given series. (ii) 15, 31, 63, 127, ? (iii) 1, 8, 27, 64, 125, ? (i) 4, 18, ?, 100, 180, 294
 - (v) 8, 24, 12, 36, 18, 54, ? (iv) 132, 156, ?, 210, 240,