

FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2018 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Roll Number

GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

TIME ALLOWED: THREE HOURS PART-I(MCQS): MAXIMUM 30 MINUTES		PART-I (MCQS) PART-II	MAXIMUM MARKS = 20 MAXIMUM MARKS = 80		
NOTE: (i) Part-II is to be attempted on the separate Answer Book.					
(ii) Attempt Only FOUR questions from Part II, by selecting TWO questions from EACH SECTION. All questions carry Equal marks.					
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different					
places.					
(iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must					
be crossed.					
(vi) Extra attempt of any question or any part of the attempted question will not be considered.(vii) Use of Calculator is NOT allowed.					
]	PART-II			
	SI	ECTION-I			
Q. No. 2.	(A). Describe different methods to estimate	nate the age of the Univ	verse.	(5)	
	(B). Explain the formation of Lunar Eclipse.			(5)	
	(C). Explain the terms Dark Energy and Dark Matter.			(5)	
	(D). Define the term Black Hole. What	's expected inside it?		(5)	(20)
Q. No. 3.	(A). Describe different causes and prev	entions of 'Polio'		(5)	
	(B). Define the term 'Bio-Fuel'. How is	s it helpful to promote c	lean energy?	(5)	
	(C). Define 'Carbohydrates'. Describe	different steps to dig	est these in the human	(5)	
	body.				
	(D). Describe the 'Cell Structure'. Writanimal cell and plant cell.	ite down at least three	differences between an	(5)	(20)
Q. No. 4.	(A). What is 'Acid Rain'. Describe its ca	uses and how it can be	prevented?	(5)	
	(B). What is 'Water Pollution'. Discus	s its causes and measu	rement methods. Name	(5)	
	the countries with the highest and lo	owest percentage of it.			
	(C). Write a comprehensive note on 'Sn	nog'.		(5)	
	(D). Describe different causes of 'T	sunami'. Is there any	difference between a	(5)	(20)
	Tsunami and a tidal wave? Name th	_			,
Q. No. 5.	(A). Write a note, how data is stored on	a 'Hard Disk'.		(5)	
-	(B). How an 'Optical Fiber' is consti		oful in transmitting the	(5)	
	electromagnetic radiations?			(-)	
	(C). Write a comprehensive note on 'Ba	alanced Diet'		(5)	
	(C). Which a complehensive hole on Da	arancea Diet.		(3)	

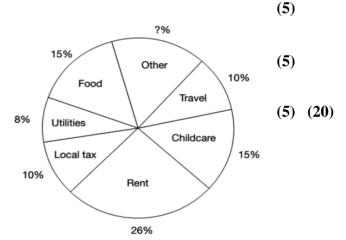
(D). What is 'Artificial Intelligence'? How is it helpful for humanity?

(5) (20)

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SECTION-II

- Q. No. 6. (A). It takes 3 liters of paint to cover an area of 24 square meters. What percentage increase in the quantity of paint would be required to cover an area of 50.4 square meters?
 - **(B).** An automobile travels 3 km towards south, 4 km towards west, 5 km towards north and 2 km towards south-east. How far is it from its starting position?
 - (C). Tahir started a business with a capital of Rs. 15,000. After 5 months Umar also joined (5) him with an investment of Rs. 30,000. At the start of 9th month, Usman joined them by investing Rs. 45,000. At the end of the year they earned a profit of Rs. 406,000. Find the share of each one.
 - (**D**). A man left his property of Rs. 640,000. A debt of Rs. 40,000 was due to him and Rs. (5) (20) 5,000 was spent on his burial. Distribute the amount between his widow, one daughter and two sons according to the Islamic Law.
- **Q. No. 7.** The breakdown of average monthly expenditure for a family is given in the following Figure:
 - (A). Calculate from the figure what percentage of the family's expenditure is on 'other'? (5)
 - **(B).** Approximately what fraction of the family's monthly expenditure do' 'utilities', 'rent' and 'food' represent?
 - **(C).**If the family spends Rs.11600 on utilities, how much is the family's total expenditure?
 - **(D).** Other' expenditure comprises savings, entertainment and luxury items, which are spent in the ratio 3:4:1. Calculate how much the family saves each month if monthly income is Rs.24,000.



- Q. No. 8. (A). Police officers are in pursuit of a stolen vehicle. Officer Baker is directly behind (5) the stolen car. Officer Lopez is behind Baker; Officer O'Malley is behind Lopez. Officer Reinhart is ahead of the stolen car and coming from the opposite direction. Officer Reinhart makes a U-turn and joins the pursuit. He pulls in behind Officer Lopez. Officer Baker pulls up on the driver's side of the stolen vehicle and Officer Lopez pulls up on the other side. Which officer is directly behind the vehicle?
 - **(B).** Define a Histogram. How is it constructed? What information may be deduced (5) from it?
 - (C). Look at this series: F2, __, D8, C16, B32, What number should fill the blank? (5)
 - (**D**). In a certain code language LANDMINE is written as PYRBQGRC. How will (5) (20) HOMEMADE be written in that code language?
