2019 GA 1-10,St 1-3

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1) The fishermen, _____ the flood victims owed their lives, were rewarded by the

government.

a) whom	b) to which	c) to whom	d) that				
]	2) Some students were not involved in the strike. If the above statement is true, which of the following conclusions is/are logically necessary?							
	1. Some who were involved in the strike were students.							
	2.No student was involved in the strike.							
	3.At least one student was involved in the strike.							
	4. Some who were not involved in the strike were students.							
b c d 3) 'i a	ncrease in) 17.1	as well as the height of a cits volume is b) 21.0	c) 33.1	d) 72.8				
4) Five numbers 10, 7, 5, 4 and 2 are to be arranged in a sequence from left to right following the directions given below:								
	1.No two odd or even numbers are next to each other.							
	2. The second number from the left is exactly half of the left-most number.							
	3. The middle number is exactly twice the right-most number.							
Which is the second number from the right?								
a) 2	b) 4	c) 7	d) 10				
5) Until Iran came along, India had never been in kabaddi.								

d) defeatist

b) Interest rates on small saving schemes are always maintained on par with fixed								
 deposit interest rates c) The government sometimes takes into consideration the demands of banking institutions before reducing the interest rates on small saving schemes d) A reduction in interest rates on small saving schemes follow only after a reduction in repo rate by the Reserve Bank of India 7) In a country of 1400 million population, 70% own mobile phones. Among the mobile 								
phone owners, only 294 million access the Internet. Among these Internet users, only half buy goods from e-commerce portals. What is the percentage of these buyers in the country?								
a) 10.50	b) 14.70	c) 15.00	d) 50.00					
8) The nomenclature of Hindustani music has changed over the centuries. Since the medieval period dhrupad styles were identified as baanis. Terms like gayaki and baaj were used to refer to vocal and instrumental styles, respectively. With the institutionalization of music education the term gharana became acceptable. Gharana originally referred to hereditary musicians from a particular lineage, including disciples and grand disciples. Which one of the following pairings is NOT correct? a) dhrupad, baani b) gayaki, vocal c) baaj, institution d) gharana, lineage 9) Two trains started at 7AM from the same point. The first train travelled north at a speed of 80km/h and the second train travelled south at a speed of 100 km/h. The time at which they were 540 km apart is AM.								
a) 9	b) 10	c) 11	d) 11.30					
10) "I read somewhere that in ancient times the prestige of a kingdom depended upon the number of taxes that it was able to levy on its people. It was very much like the prestige of a head-hunter in his own community." Based on the paragraph above, the prestige of a head-hunter depended upon								

a) defeated

deposit interest rates.

b) defeating

small saving schemes are also reduced.

c) defeat

6) Since the last one year, after a 125 basis point reduction in repo rate by the Reserve Bank of India, banking institutions have been making a demand to reduce interest rates on small saving schemes. Finally, the government announced yesterday a reduction in interest rates on small saving schemes to bring them on par with fixed

Which one of the following statements can be inferred from the given passage?

a) Whenever the Reserve Bank of India reduces the repo rate, the interest rates on

- a) the prestige of the kingdom
- b) the prestige of the heads
- c) the number of taxes he could levy
- d) the number of heads he could gather

11)

$$\lim_{n \to \infty} \sum_{k=1}^{n} \frac{n}{n^2 + k^2}$$

is equal to

a) $\frac{e}{3}$

- b) $\frac{5}{6}$
- c) $\frac{3}{4}$
- d) $\frac{\pi}{4}$
- 12) Let $\mathbf{F} = (x y + z)(\mathbf{i} + \mathbf{j})$ be a vector field on \mathbb{R}^3 . The line integral $\int_C \mathbf{F} \cdot d\mathbf{r}$ where C is the triangle with vertices (0,0,0), (5,0,0), and (5,5,0) traversed in that order.
 - a) -25
- b) 25 em 50
- c) 5
- 13) Let $\{1, 2, 3, 4\}$ represent the outcomes of a random experiment, and $P(\{1\}) = P(\{2\}) = P(\{3\}) = P(\{4\}) = \frac{1}{4}$. Suppose that $A_1 = \{1, 2\}$, $A_2 = \{2, 3\}$, $A_3 = \{3, 4\}$, and $A_4 = \{1, 2, 3\}$. Then which of the following statements is true?
 - a) A_1 and A_2 are not independent.
 - b) A_3 and A_4 are independent.
 - c) A_1 and A_4 are independent
 - d) A_2 and A_4 are independent