

GATE Questions 15

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EE24BTECH11012 - Bhavanisankar G S

1) The fisherman, _ 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.

- a) 1 and 2 c) 4
b) 3 d) 2 and 3

3) The radius as well as the height of a circular cone increases by 10 %. The percentage increase in its volume is

- a) 17.1 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.

- a) defeated b) defeating c) defeat d) defeatist

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 deposit rates.

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 small saving schemes are also reduced.
- 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* 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* c) *baaj*, institution
- b) *gayaki*, vocal d) *gharana*, lineage
- 9) Two trains started at 7 AM from the same point. The first train travelled north at a speed of 80km/hr and second train travelled south at a speed of 100km/hr . 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 levied 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 above paragraph, the prestige of a head-hunter depended upon
- a) the prestige of the kingdom c) the number of taxes he could levy
- b) the prestige of the heads d) the number of heads he could gather
- 11) The relative magnetic permeability of a type-I superconductor is

