## **GATE Questions 15**

## EE24BTECH11012 - Bhavanisankar G S

1) The fisherman, \_ the flood victims owed their lives, were rewarded by the government.

c) to whom

d) that

b) to which

2) Some students were not involved in the strike

a) whom

necassary? 1. Some who we 2. No student w 3. At least one s	tement is true, which ere involved in the stas involved in th strik student was involved ere not involved in the	rike were students. ke. in the strike.	
a) 1 and 2 b) 3		c) 4 d) 2 and 3	
	well as as the height ase in its volume is	t of a circular con	ne increases by 10 %. The
a) 17.1	b) 21.0	c) 33.1	d) 72.8
following the dir 1. No two odd of 2. The second n 3. The middle n	0, 7, 5, 4 and 2 are trections given below or even numbers are number from the left in the left in the cond number from the cond number	: next to each other. is exactly half of th ce the right-most m	
a) 2	b) 4	c) 7	d) 10
5) Until Iran came	along, India had nev	er been _ in kabado	di.
a) defeated	b) defeating	c) defeat	d) defeatist
Reserve Bank of interest rates on a reduction in in deposit rates.	f India, banking insti- small saving scheme terest rates on small	tutions have beem as. Finally, the given saving schemes to be	uction in repo rate by the making a demand to reduce rument announced yesterday oring them on par with fixed 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?

c) 15.00

c) baa j, institution

d) gharana, lineage

b) 14.70

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?

9)	Two trains started	at 7 AM from	the same point.	The fire	st train	travelled	north	at a
	speed of $80km/hr$	and second train	n travelled south	at a spe	eed of	100km/hr	. The	time

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

at which they were 540 km apart is AM.

c) the number of taxes he could levy

b) the prestige of the heads

a) 10.50

a) dhrupad, baani

b) gayaki, vocal

d) the number of heads he could gather

d) 50.00

11) The relative magnetic permeability of a type-I superconductor is

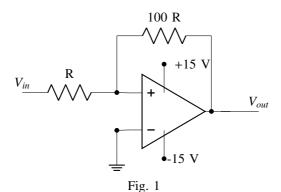
a) 0

- b) -1
- c)  $2\pi$
- d)  $\frac{1}{4\pi}$
- 12) Consider baryon number and lepton number conservation laws, which of the following processes is/are allowed ?
  - (i)  $p \to \pi^0 + e^+ \nu_e$
  - (ii)  $e^+ + \nu_e \rightarrow \mu^+ + \nu_\mu$
  - a) both (i) and (ii)

c) only (ii)

b) only (i)

- d) neither (i) nor (ii)
- 13) For the following circuit, what is the magnitude of  $V_{out}$  is  $V_m = 1.5V$ ?



- a) 0.015 V
- b) 0.15 V
- c) 15 V
- d) 150 V