

Domain Specific MCQs: The correct answers are highlighted.

For Science Domain (Biology, Mathematics, Physics, Chemistry) and BSc and BSc BEd

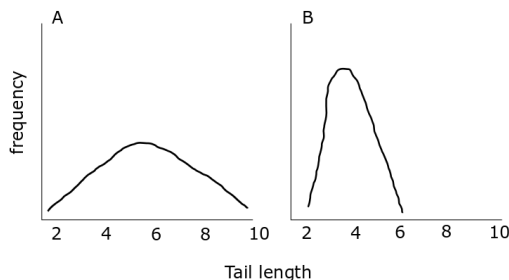
Q1. Eight people are taking a lift together. One person who weighs 65 kg exits the lift, and a new person comes in. The average weight of the people in the lift then increases by 2.5 kg. What is the weight of the new person?

- a. 76 kg
- b. 76.5 kg
- c. 85 kg
- d. We cannot determine it without more information

Q2. You choose a random number between 1 and 100. Which of the following is the least probable?

- a. Your number is even
- b. Your number is a single digit number
- c. Your number is a multiple of 6
- d. Your number is a multiple of 7

Q3. Scientists measured the tail lengths of monkeys from two different species A and B. They took measurements of 30 different individuals from each species. They plotted all the tail lengths as a frequency distribution as seen below, where the x-axis has the measured tail lengths in inches, and the y-axis has the number of times each tail length was measured.



Which of the following statements is TRUE?

- a. Mean and variation in A are larger than in B
- b. Mean is greater in A, but variation is same in A and B
- c. Mean and variation are smaller in A than in B
- d. Mean is smaller in A, but variation is larger in B

Q4. 60% of the students in a class like biology and 45% like history. Which of the following can we be sure of?

- a. Every student likes either biology or history
- b. There are students who like history but don't like biology
- c. There are students who like biology but don't like history
- d. There are students who dislike both subjects

Q5. I place a narrow cylindrical container and a wide cylindrical container on the ground next to each other to collect rainwater. Which of the statements below is true after it rains?

- a. The water level will be higher in narrow tube
- b. The water level will be higher in wide vessel
- c. Both vessels collect the same volume of water.
- d. Both collect water to the same height.

For Humanities Domain (BA History, English and Philosophy)

“The subcontinent is a huge geographical area, and the transition to literacy did not take place everywhere at the same time. For instance, areas outside the literate Harappan zone were inhabited by non-literate people. Going by the earliest surviving samples of deciphered writing, the beginning of the historical period in north India would have to be placed in the 4th century BCE. However, it can be presumed that this writing had a history on perishable material, one that must go back to at least the 6th century BCE. Lists of historical kings and philosophers of this century are available for parts of north India. Considering all these factors, there is a good case for placing the beginning of the historical period in north India in the 6th century BCE. The evidence of 4th century BCE Brahmi inscriptions from Anuradhapura in Sri Lanka, 2nd century BCE Tamil-Brahmi inscriptions, and the political history reflected in Sangam literature suggest that the transition to the historical period in South India occurred sometime between the 4th and 2nd centuries BCE. Of course, if the Harappan script is deciphered someday, the dates for the beginning of the historical period in northern India will have to be pushed back to the 3rd millennium BCE, or even earlier.” Singh U. (2009). *A History of Ancient and Early Medieval India: From the Stone Age to the 12th century*. Pearson. pp. 07.

Q1. When did the historical period begin in North India?

- a. 6th century BCE
- b. 4th century BCE
- c. Both a and b
- d. None of the above

Q2. The earliest Brahmi inscriptions, found in Anuradhapura, Sri Lanka, date from which century?

- a. 4th century BCE
- b. 2nd century BCE
- c. 3rd century BCE
- d. None of the above

Q3. Which one of the following is correct?

- a. Harappan people were literate
- b. People outside Harappan zone were non-literate
- c. Both a and b
- d. None of the above

Q4: Which of the following is a false statement?

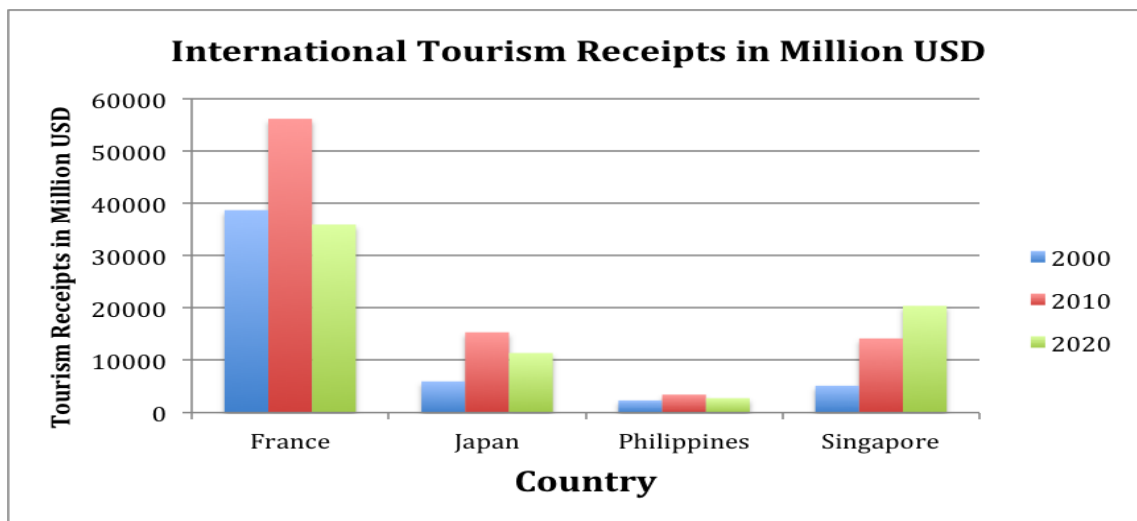
- a. First Tamil-Brahmi inscriptions are from 2nd century BCE
- b. First Tamil-Brahmi inscriptions are from 6th century BCE
- c. Sangam literature reflects political history
- d. Historical period in South India is dated between 4th and 2nd centuries BCE

Q5: In this paragraph, the beginning of the Historical period has been marked by which of the following

- a. Harappan inscriptions
- b. Writing that has been deciphered
- c. Sangam literature
- d. Use of iron tools

For Social Science Domain (BA Economics, Social Science)

The following graph shows the receipts from international tourism in Million US Dollars for four countries - France, Japan, Philippines and Singapore - in the years 2000, 2010 and 2020. Use the graph to answer the three questions given below.



Source: World Development Indicators, The World Bank

Q1) For which country, do you see the largest decline in tourism revenue between the years 2010 and 2020?

- a) France
- b) Japan
- c) Philippines
- d) Singapore

Q2) Which of the following statements is not true?

- a) Singapore has witnessed a rise in tourism receipts during 2000 and 2020.
- b) Tourism receipts of France in 2010 were more than double the tourism receipts of Japan in 2010.
- c) Among the four countries, Philippines had the lowest tourism receipts in 2000 as well 2010.
- d) Between 2010 and 2020, tourism receipts declined for all four countries.

Q3) What is the approximate increase in tourism receipts of Singapore during 2000 and 2020?

- a) 100 %
- b) 10 %
- c) 200 %
- d) 300 %

Q4) Amit, an economist, has analysed data on the salary of 200 employees working in a private bank. 150 of these employees are men and the rest are women. Solely based on this, Amit concludes that in terms of hiring, the bank does not treat men and women equally. Which of the following statements is true?

- a) Amit is right because the bank has an unequal number of men and women employees.
- b) Amit is wrong because the bank pays equal salary to everyone irrespective of their sex.
- c) Amit is right because women are 50 percent of the population, yet in the bank they are only 25 percent of the employees.
- d) Amit does not have enough information to conclude that in terms of hiring, the bank treats men and women unequally.

Q. 5 Kalpana, a Dalit woman, comes from an economically backward family. She was forced to marry at an early age of 12, went through an abusive marriage, and faced many more challenges throughout her life. Since mid-1990s she started turning her fate around and now she is a successful business-person who owns and controls assets worth more than 900 crores. Based on her story, a politician comments, "Kalpana's life shows us how caste, class or gender does not matter in modern India. If you are committed to your dreams and work hard enough, you can achieve anything in life. Indians should stop complaining about poverty, caste, inequality etc., and start working hard". Which of the following statements is true?

- a) The politician is right. Most of the Indians cannot be as successful as Kalpana as they are not committed to their dreams like Kalpana is.
- b) The politician is right. Most of the Indians cannot be as successful as Kalpana as they are not able to work as hard as Kalpana does.
- c) The politician is wrong. Kalpana's success is because she chose to pursue a private business rather than a public job.
- d) The politician is wrong. Kalpana's success is only an exception, and does not reflect the general reality faced by most of the Dalit women from economically backward families.