



## UPSC AKHADA

A 5G network can serve a million users per square kilometer, while a 4G network can support only 100,000 users per square kilometer. 5G devices are also enabled for 4G LTE network, which means if a user is moving in such an area where 5G networks are not accessible, then the device will use a 4G LTE network.

The first and important factor in differentiating between 4G and 5G technologies is the speed, and 5G is expected to be 100 times faster than 4G. Among all the available mobile technologies, the 4G network is the fastest, but it is slower than 5G. 4G can reach a maximum speed of 100Mbps, but in the real world, it is a maximum of 35Mbps. The higher speed of 5G is possible because these networks are built on super-high frequency airwaves or high-band spectrum. The higher the frequency, the more data will be transferred. **The theoretical maximum speed of 5G is 20 Gbps, but in the real world, it is from 50Mbps to 3 Gbps.**

**Q 61. “Doctrine of Essentiality” is related with:**

- A. Providing basic necessities to the weaker section of the society by the government.
- B. Providing essential services in the healthcare sector.
- C. Protection of such religious practices which are essential and integral to the religion.
- D. Reducing the import and promoting self-sufficiency in the country.

Answer: C

The doctrine of essentiality was invented by a seven judge bench of the Supreme Court in the “Shirur Mutt” case in 1954 to protect the religious practices that are essential or integral and does not violate any fundamental right. India being a secular country has discrete religious beliefs and to deny any is to violate the freedom of religion.

**Q62. Consider the following statements with respect to land administration during the Mughal Empire:**

1. During the reign of Aurangzeb the numbers of Jamindars were increased.
2. Jagirdars were paid in cash.
3. Mansabdars could be transferred from one section of the administration to the other section.

**Which of the above statement(s) is/are correct?**

- A. Only 1
- B. 1 and 3 only
- C. 2 and 3 only
- D. All of the above

Answer: B

Explanation: During the reign of Emperor Aurangzeb the number of people eyeing important posts and nobility increased, so did the number of people who were being assigned Jagirdaris. However, the number of Jagir did not increase proportionately that led to the Jagadhari crisis which ultimately become a major reason for the decline of the Mughal Empire.

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