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Q75

With reference to communications technologies, what is/are the difference/differences between LTE (Long-Term Evolution) and VoLTE (Voice over Long-Term Evolution)? 1. LTE is commonly marketed as 3G and VoLTE is commonly marketed as advanced 3G. 2. LTE is data-only technology and VoLTE is voice-only technology. Select the correct answer using the code given below (a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2 Official key: D.

UPSC Civil Services Prelims 2019 · General Studies · 2 marks · Science and Technology

Science, technology, space, defence, IT - Prelims GS Paper I.

Explanation**(a)**

(a) 1 only. Statement 1 is false: **LTE** is marketed as 4G, not 3G, and **VoLTE** is voice-over-4G, not "advanced 3G". Not the key.

(b)

(b) 2 only. Statement 2 is false: **LTE** carries data (and, with **VoLTE**, packet voice). **VoLTE** is not a voice-only technology that replaces data. Not the key.

(c)

(c) Both 1 and 2. Both differences as worded are false. Not the key.

(d) Official key

(d) Neither 1 nor 2. **LTE** is 4G data; **VoLTE** is voice (and SMS) as packets on the **LTE** bearer, so you can use data during a call. Neither listed "difference" is right. That is the official key.

Summary

Official key is (d). **LTE** is the 4G radio standard, commonly sold as 4G **LTE**. **VoLTE** puts voice on that same IP pipe; it is not a separate voice-only or 3G product. Both statements fail. Honour (d).

Related possible facts

These can be asked in a future Prelims paper.

LTE

Long-Term Evolution; 3GPP 4G standard

VoLTE

Voice over LTE; IMS-based packet voice

CSFB

Circuit-switched fallback to 2G/3G for voice on non-VoLTE LTE

5G voice

VoNR (voice over new radio) is the later analogue

Marketing

LTE sold as 4G, not 3G

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