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Nilay Kulkarni: A life-saving invention that prevents human stampedes | TED Talk

https://www.ted.com/talks/nilay_kulkarni_a_life_saving_invention_that_prevents_human_stampedes

Advanced Words Only

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Session 1: Word List

descend

v. to move downward and lower; to come from, or to be connected by a relationship of blood

synonym : dip, drop, come down

(1) **descend** a steep hill, (2) **descend** by elevator

She was **descended** from an old Italian noble family.

resign

v. to give up a position or job voluntarily; to accept something unpleasant or undesirable as inevitable

synonym : quit, relinquish, retire

(1) **resign** all hopes, (2) **resign** to fate

After a long battle with her health, the teacher had no choice but to **resign** from her position.

intensify

v. to increase or make something increase in extent or strength

synonym : amplify, boost, strengthen

(1) **intensify** diplomatic efforts, (2) **intensify** a good relationship

Rebels have pledged to **intensify** the armed struggle against the dictatorship.

casualty

n. a person who has been killed or injured in a war, accident, or other disasters; a victim

synonym : victim, injured, fatality

(1) civilian **casualty**, (2) military **casualty**

Unfortunately, the driver was the only **casualty** in the car accident.

impractical

adj. not sensible or useful for practical purposes; not likely to be effective in achieving an intended outcome

synonym : impracticable, unrealizable, unfeasible

(1) **impractical** idea, (2) **impractical** solution

It is **impractical** to expect everyone to work for free.

granular

adj. consisting of or resembling small grains or particles; having a rough, irregular texture or appearance

synonym : gritty, grainy, sandy

(1) a **granular** medicine, (2) **granular** data

The soil had a **granular** texture, making it easy to plant the seeds.

determinant

n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym : cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

stride

v. to walk with long steps in a particular direction; (noun) an important and positive progress

synonym : step, walk, march

(1) **stride** across a room, (2) **stride** down a slope

She **strides** confidently across the stage to accept her award.

piezoelectric

adj. relating to or utilizing the property of certain materials that generate an electric charge when subjected to mechanical stress caused by the rearrangement of the

material's atoms or molecules, which creates an imbalance in electrical charge and leads to the generation of an electric voltage or current

synonym: vibratory, electrically responsive, crystal-controlled

(1) **piezoelectric** material, (2) **piezoelectric** sensor

The **piezoelectric** crystals generate electricity when pressure is applied to them.

electrify

v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

synonym: wire, amaze, astonish

(1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

excite

v. to make someone feel suddenly enthusiastic or eager

synonym: thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

electrocution

n. death or serious injury caused by electric shock; the act of killing or injuring someone with electricity

synonym: shock, high voltage, burning

(1) fatal **electrocution**, (2) **electrocution** victim

The construction worker was rushed to the hospital after suffering from **electrocution** on the job site.

neoprene

n. a type of synthetic rubber that is resistant to oil, heat, and weathering, commonly used in the production of wetsuits, scuba gear, and other water-resistant products

synonym: rubber, synthetic rubber, foam rubber

(1) **neoprene** fabric, (2) **neoprene** gloves

She wore a **neoprene** wetsuit for protection against the cold water while surfing.

camouflage

n. an outward appearance that conceals the underlying essence of something; the way of concealing troops or military equipment so they cannot be seen against the surrounding environment

synonym : guise, mask, cloak

(1) **camouflage** clothing, (2) work as **camouflage**

They utilized branches of trees as **camouflage**.

checkpoint

n. a designated location or point along a route or journey where travelers are required to stop and undergo a security or documentation check

(1) **checkpoint** security, (2) military **checkpoint**

The airport security **checkpoint** was crowded with passengers waiting to board their flights.

adaptable

adj. able or willing to modify or be modified to deal with new situations

synonym : flexible, adjustable, elastic

(1) **adaptable** enough for the environment, (2) an **adaptable** person

We seek a candidate who possesses **adaptable** fighting potential.

hajj

n. the annual pilgrimage to Mecca, Saudi Arabia, that is a requirement for all non-disabled, financially capable Muslims who can make the journey; one of the Five Pillars of Islam

synonym : pilgrimage, pilgrimage to Mecca

(1) mandatory **hajj**, (2) **hajj** rituals

Every year, millions of Muslims make the **hajj** pilgrimage to Mecca, Saudi Arabia.

mecca

n. a city and administrative center of the Mecca Province of Saudi Arabia and the holiest city in Islam

synonym : cynosure, center

(1) tourist **mecca**, (2) **mecca** for surfers

The building has become a **mecca** for fans of the movie.

procession

n. a group of people or vehicles moving in an orderly, ceremonial manner, often for a religious or official purpose

synonym : parade, cavalcade, march

(1) **procession** of cars, (2) religious **procession**

The funeral **procession** slowly made its way to the cemetery.

Session 2: Spelling

1. re___n all hopes
v. to give up a position or job voluntarily; to accept something unpleasant or undesirable as inevitable
2. pie_____ric material
adj. relating to or utilizing the property of certain materials that generate an electric charge when subjected to mechanical stress caused by the rearrangement of the material's atoms or molecules, which creates an imbalance in electrical charge and leads to the generation of an electric voltage or current
3. religious pro_____on
n. a group of people or vehicles moving in an orderly, ceremonial manner, often for a religious or official purpose
4. military ca_____ty
n. a person who has been killed or injured in a war, accident, or other disasters; a victim
5. military che_____nt
n. a designated location or point along a route or journey where travelers are required to stop and undergo a security or documentation check
6. el_____fy the audience
v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
7. ex___e rebellion
v. to make someone feel suddenly enthusiastic or eager

ANSWERS: 1. resign, 2. piezoelectric, 3. procession, 4. casualty, 5. checkpoint, 6. electrify, 7. excite

8. ele_____ion victim *n.* death or serious injury caused by electric shock; the act of killing or injuring someone with electricity
9. imp_____al solution *adj.* not sensible or useful for practical purposes; not likely to be effective in achieving an intended outcome
10. ne_____ne fabric *n.* a type of synthetic rubber that is resistant to oil, heat, and weathering, commonly used in the production of wetsuits, scuba gear, and other water-resistant products
11. me__a for surfers *n.* a city and administrative center of the Mecca Province of Saudi Arabia and the holiest city in Islam
12. re___n to fate *v.* to give up a position or job voluntarily; to accept something unpleasant or undesirable as inevitable
13. el_____fy a manufacturing process *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
14. pie_____ric sensor *adj.* relating to or utilizing the property of certain materials that generate an electric charge when subjected to mechanical stress caused by the rearrangement of the material's atoms or molecules, which creates an imbalance in electrical charge and leads to the generation of an electric voltage or current

ANSWERS: 8. electrocution, 9. impractical, 10. neoprene, 11. mecca, 12. resign, 13. electrify, 14. piezoelectric

15. ad_____le enough for the environment
adj. able or willing to modify or be modified to deal with new situations
16. de_____d by elevator
v. to move downward and lower; to come from, or to be connected by a relationship of blood
17. ex___e the crowd
v. to make someone feel suddenly enthusiastic or eager
18. fatal ele_____ion
n. death or serious injury caused by electric shock; the act of killing or injuring someone with electricity
19. pro_____on of cars
n. a group of people or vehicles moving in an orderly, ceremonial manner, often for a religious or official purpose
20. de_____d a steep hill
v. to move downward and lower; to come from, or to be connected by a relationship of blood
21. imp_____al idea
adj. not sensible or useful for practical purposes; not likely to be effective in achieving an intended outcome
22. in_____fy diplomatic efforts
v. to increase or make something increase in extent or strength
23. mandatory h___j
n. the annual pilgrimage to Mecca, Saudi Arabia, that is a requirement for all non-disabled, financially capable Muslims who can make the journey; one of the Five Pillars of Islam
24. tourist me__a
n. a city and administrative center of the Mecca Province of Saudi Arabia and the holiest city in Islam

ANSWERS: 15. adaptable, 16. descend, 17. excite, 18. electrocution, 19. procession, 20. descend, 21. impractical, 22. intensify, 23. hajj, 24. mecca

25. cam_____ge clothing *n.* an outward appearance that conceals the underlying essence of something; the way of concealing troops or military equipment so they cannot be seen against the surrounding environment
26. gr_____ar data *adj.* consisting of or resembling small grains or particles; having a rough, irregular texture or appearance
27. st___e across a room *v.* to walk with long steps in a particular direction; (noun) an important and positive progress
28. in_____fy a good relationship *v.* to increase or make something increase in extent or strength
29. work as cam_____ge *n.* an outward appearance that conceals the underlying essence of something; the way of concealing troops or military equipment so they cannot be seen against the surrounding environment
30. ne_____ne gloves *n.* a type of synthetic rubber that is resistant to oil, heat, and weathering, commonly used in the production of wetsuits, scuba gear, and other water-resistant products
31. environmental det_____nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
32. st___e down a slope *v.* to walk with long steps in a particular direction; (noun) an important and positive progress

ANSWERS: 25. camouflage, 26. granular, 27. stride, 28. intensify, 29. camouflage, 30. neoprene, 31. determinant, 32. stride

33. a gr____ar medicine *adj.* consisting of or resembling small grains or particles; having a rough, irregular texture or appearance
34. civilian ca____ty *n.* a person who has been killed or injured in a war, accident, or other disasters; a victim
35. h__j rituals *n.* the annual pilgrimage to Mecca, Saudi Arabia, that is a requirement for all non-disabled, financially capable Muslims who can make the journey; one of the Five Pillars of Islam
36. che____nt security *n.* a designated location or point along a route or journey where travelers are required to stop and undergo a security or documentation check
37. a det____nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
38. an ad____le person *adj.* able or willing to modify or be modified to deal with new situations

ANSWERS: 33. granular, 34. casualty, 35. hajj, 36. checkpoint, 37. determinant, 38. adaptable

Session 3: Fill in the Blanks

1. It is _____ to expect everyone to work for free.
adj. not sensible or useful for practical purposes; not likely to be effective in achieving an intended outcome
2. She _____ confidently across the stage to accept her award.
v. to walk with long steps in a particular direction; (noun) an important and positive progress
3. One _____ of success is having a positive attitude and a strong work ethic.
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
4. They utilized branches of trees as _____.
n. an outward appearance that conceals the underlying essence of something; the way of concealing troops or military equipment so they cannot be seen against the surrounding environment
5. The building has become a _____ for fans of the movie.
n. a city and administrative center of the Mecca Province of Saudi Arabia and the holiest city in Islam
6. The soil had a _____ texture, making it easy to plant the seeds.
adj. consisting of or resembling small grains or particles; having a rough, irregular texture or appearance
7. We seek a candidate who possesses _____ fighting potential.
adj. able or willing to modify or be modified to deal with new situations

ANSWERS: 1. impractical, 2. strides, 3. determinant, 4. camouflage, 5. mecca, 6. granular, 7. adaptable

8. The product developed through years of research continues to _____ the market.
- v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
9. The news of her promotion _____ her.
- v. to make someone feel suddenly enthusiastic or eager
10. The construction worker was rushed to the hospital after suffering from _____ on the job site.
- n. death or serious injury caused by electric shock; the act of killing or injuring someone with electricity
11. Rebels have pledged to _____ the armed struggle against the dictatorship.
- v. to increase or make something increase in extent or strength
12. The funeral _____ slowly made its way to the cemetery.
- n. a group of people or vehicles moving in an orderly, ceremonial manner, often for a religious or official purpose
13. She was _____ from an old Italian noble family.
- v. to move downward and lower; to come from, or to be connected by a relationship of blood
14. After a long battle with her health, the teacher had no choice but to _____ from her position.
- v. to give up a position or job voluntarily; to accept something unpleasant or undesirable as inevitable
15. She wore a _____ wetsuit for protection against the cold water while surfing.
- n. a type of synthetic rubber that is resistant to oil, heat, and weathering, commonly used in the production of wetsuits, scuba gear, and other water-resistant products

ANSWERS: 8. electrify, 9. excited, 10. electrocution, 11. intensify, 12. procession, 13. descended, 14. resign, 15. neoprene

16. The _____ crystals generate electricity when pressure is applied to them.
- adj.* relating to or utilizing the property of certain materials that generate an electric charge when subjected to mechanical stress caused by the rearrangement of the material's atoms or molecules, which creates an imbalance in electrical charge and leads to the generation of an electric voltage or current
17. The airport security _____ was crowded with passengers waiting to board their flights.
- n.* a designated location or point along a route or journey where travelers are required to stop and undergo a security or documentation check
18. Unfortunately, the driver was the only _____ in the car accident.
- n.* a person who has been killed or injured in a war, accident, or other disasters; a victim
19. Every year, millions of Muslims make the ____ pilgrimage to Mecca, Saudi Arabia.
- n.* the annual pilgrimage to Mecca, Saudi Arabia, that is a requirement for all non-disabled, financially capable Muslims who can make the journey; one of the Five Pillars of Islam

ANSWERS: 16. piezoelectric, 17. checkpoint, 18. casualty, 19. hajj