



UPSC CURRENT AFFAIRS MCQs 23-08-2023

Ques:1

Consider the following statements with respect to ‘Acoustic Side Channel Attacks’

Statement 1 – The AI model employed to perform the attack has 100% accuracy without the use of a language model

Statement 2 – This technique uses the sounds produced by typing on a keyboard to determine what keys are being pressed

Which one of the following is correct in respect of the above statements?

- a) Both Statement-I and Statement-II are correct and Statement II is the correct explanation for Statement-I
- b) Both Statement-I and Statement-II are correct and Statement II is not the correct explanation for Statement-I
- c) Statement-I is correct but statement II is incorrect
- d) Statement -I is incorrect but Statement -II is correct

Correct Answer: d

Solution:

When a deep learning model was trained on the data with default values, the model was able to acquire a meaningful interpretation of the data. Additionally, when the AI model was made to recognise keystrokes using audio captured through a smartphone microphone, it was able to achieve 95% accuracy.

This technique uses the sounds produced by typing on a keyboard to determine what keys are being pressed. By analysing these unique sounds, hackers equipped with the right tools can decode the precise letters and numbers being typed.

Ques:2

Consider the following statements with respect to ‘National Disaster Response Fund (NDRF)’

It is a fund managed by the Central Government to meet the expenses for emergency response and compensation

It is placed in the Public Account of Government of India under reserve funds not bearing interest



The National Executive Committee (NEC) of the NDMA takes decisions on the expenses from National Disaster Response Fund

How many of the statements given above is/are correct?

- a) Only one
- b) Only two
- c) All three
- d) None

Correct Answer: b

Solution:

It is a fund managed by the Central Government to meet the expenses for emergency response, relief and rehabilitation due to any threatening disaster situation or disaster. The financial assistance from NDRF is for providing immediate relief and is not compensation for loss/damage to properties /crops. It is placed in the “Public Account” of Government of India under “reserve funds not bearing interest“. The National Executive Committee (NEC) of the National Disaster Management Authority takes decisions on the expenses from National Disaster Response Fund.

Ques:3

Consider the following statements with respect to ‘Gene-edited mustard’

It is based on CRISPR/Cas9 gene editing while being non-genetically modified

It is India’s first ever low pungent mustard that is pest and disease resistant

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Correct Answer: c

Solution:

CRISPR/Cas9 – a gene-editing tool deploying an enzyme was used, which acts as a “molecular scissors” to cut the DNA at precise targeted locations of the gene, and then letting the natural DNA repair process to take over. The new GTR genes-



edited mustard lines are transgene-free or non-genetically modified (GM). Indian scientists have developed the first ever low-pungent mustard that is pest and disease-resistant.

Ques:4

With reference to ‘Kashmir Stag’, consider the following statements

It is a Critically Endangered animal and is included in Appendix 1 of CITES

The society of Kashmir stag is matriarchal

It is primarily found in Hemis National Park in Kashmir

How many of the statements given above is/are correct?

- a) Only one
- b) Only two
- c) All three
- d) None

Correct Answer: b

Solution:

It is a critically endangered animal found in Jammu & Kashmir. It is also included in Appendix 1 of the CITES. It is essentially a forest animal and is found either singly or in small groups of 2 to 16 members. The social system is matriarchal. It is found in dense riverine forests in the high valleys and mountains of Jammu and Kashmir and northern Himachal Pradesh. In Kashmir, it is found primarily in the Dachigam National Park where it receives protection, and elsewhere it is more at risk.

Ques:5

Luna 25 spacecraft, that was recently in news, was launched by

- a) National Aeronautics and Space Administration (NASA)
- b) European Space Agency
- c) Japan Aerospace Exploration Agency (JAXA)
- d) Roscosmos

Correct Answer: d



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Solution:

Russia's Luna-25 has crashed on the Moon's surface, the country's space agency said, in a disappointing end to its first mission to the lunar surface in 47 years after the last landing by the former Soviet Union.