

DAILY GENERAL AWARENESS QUIZ



Rajnish Bhatnagar

Monday, 21 October 2024

1. Justice Sanjiv Khanna recommended as next Chief Justice of India. In context to the same tell us, A Judge of a High Court is appointed by the President of India in consultation with :

- (A) The Chief Justice of India who must consult with two senior most Judges of the Supreme Court
- (B) The Chief Justice of India and the Chief justice of High Court in which the appointment is to be made
- (C) The Chief Justice of India, the Chief Justice of the High Court and the Governor
- (D) The Council of Ministers

2. Supreme Court upholds Section 6A of Citizenship Act in 4:1 decision. In context to the same tell us, how many times citizenship Act, 1955 amended?

- (A) 7
- (B) 5
- (C) 4
- (D) 6

3. Indo-Turkiye Friendship Association (ITFA) launched to strengthen ties. In context to the same tell us, Turkey is located between -

- (A) Black Sea and Caspian Sea
- (B) Black Sea and Mediterranean Sea
- (C) Gulf of Suez and Mediterranean
- (D) Gulf of Aqaba and Dead Sea

4. Vivaan wins silver, Naruka claims bronze at Shooting World Cup. In context to the same tell us, which of the following position is not a position in the shooting event?

- (A) Sitting
- (B) Prone
- (C) Standing
- (D) Kneeling

5. Karnataka CM renames schools after Maharishi Valmiki. In context to the same tell us, which of the following states has Maharshi Valmiki Scheduled Tribes Development Corporation Limited?

- (A) Punjab
- (B) Karnataka
- (C) Delhi
- (D) Haryana

6. Recently, auroras were sighted in lower-latitude regions (below 66.5 degrees north and south latitudes)

like India (Hanle and Merak in Ladakh), Mexico and Germany.

Consider the following statements -

- (1) When solar wind particles are trapped by Earth's magnetic field and enter the upper atmosphere, they create auroras.
- (2) When they form in the Northern hemisphere, they are known as Aurora Borealis.
- (3) When they form in the Southern hemisphere, they are known as Aurora Antarctic.

Which of the above is/are correct?

- (A) Only (1) and (3)
- (B) Only (1) and (2)
- (C) Only (2) and (3)
- (D) None of the above

7. Recently, the Ministry of Earth Sciences approved an X-band radar to be installed in Kerala's Wayanad district after devastating floods and landslides.

Consider the following statements -

- (1) In 1970, India installed the first indigenously designed X-band storm detection radar in New Delhi.
- (2) In its X-band radar network, India has only storm-detecting radars.
- (3) The first S-band cyclone detection radar was installed in Visakhapatnam in 1970.

Which of the above is/are correct?

- (A) Only (1) and (3)
- (B) Only (1) and (2)
- (C) Only (2) and (3)
- (D) None of the above

8. The Cabinet Committee on Economic Affairs, has approved the Green Energy Corridor (GEC) Phase-II - Inter-State Transmission System (ISTS) for a 13 GW Renewable Energy Project in Ladakh.

Consider the following statements:

- (1) Gujarat has the largest solar park in India.
- (2) Kerala has a fully solar powered International Airport.
- (3) Goa has the largest floating solar photovoltaic project in India.

Which of the above is/are correct?

- (A) Only (1)
- (B) Only (1) and (3)
- (C) Only (2)
- (D) None of the above

1-{C} - 2-{D} - 3-{B} - 4-{A} - 5-{B} - 6-{B} - 7-{A} 8-{C}

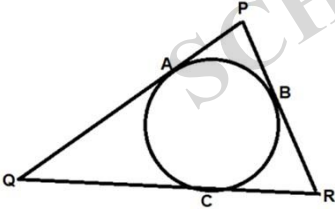


DAILY QUANT QUIZ



Rajnish Bhatnagar

Monday, 21 October 2024

1. The mean proportional of 16 and 9 is 'X', whereas the fourth proportional of 10, 12 and 20 is 'Y'. Find $\frac{X+Y}{X-Y}$
- (A) 3 (B) 2
(C) - 2 (D) - 3
2. A car travels at 40 km/h to reach its destination on time. If it travels at 45 km/h then it will reach its destination 20 minutes earlier. Find the time taken by car to travel twice the distance at 60 km/h.
- (A) 3.5 hours (B) 3 hours
(C) 4.5 hours (D) 4 hours
3. Find the mean deviation of 10, 14, 16, 18 and 12.
- (A) 2.8 (B) 3.2
(C) 3.6 (D) 2.4
4. In the figure given below, PQ = 18 cm, QR = 14 cm and PR = 16 cm. Find the length of BP.
- 
- (A) 6 cm (B) 10 cm
(C) 8 cm (D) 5 cm
5. The ratio of length to breadth to height of a cuboidal box is 8:4:3. If the total surface area of the cuboid is 2,176 cm², then find its lateral surface area.
- (A) 1536 cm² (B) 1152 cm²
(C) 2,592 cm² (D) 1024 cm²
6. If $2a + b = 15$ and $ab = 18$, then the value of $(4a^2 - b^2)$.
- (A) 125 (B) 132
(C) 135 (D) 152
7. Number obtained on increasing 80 by 'x%', is 4 more than the number obtained on decreasing 160 by 'x%'. Find the value of 'x'.
- (A) 50 (B) 35
(C) 45 (D) 80
8. A circle is inscribed in a quadrilateral ABCD. Find the length of BC, if AB = 12 cm, CD = 18 cm and AD = 14 cm.
- (A) 20 cm (B) 16 cm
(C) 22 cm (D) Cannot be determine
9. Find the fourth proportional of 15, 27, and 25.
- (A) 50 (B) 42
(C) 45 (D) 26
10. A man divided a piece of land equally between his two sons. The ratio of the length and the breadth of the land is 4:3, respectively. If each son got 384 m² of the land, then what is the perimeter of the whole land?
- (A) 112 metres (B) 82 metres
(C) 128 metres (D) 98 metres

1-{D} - 2-{D} - 3-{D} - 4-{B} - 5-{B} - 6-{C} - 7-{B} - 8-{B} - 9-{C} - 10-{A}



DAILY REASONING QUIZ



Monday, 21 October 2024

1. Select the option that is related to fourth number in the same way as the first number is related to the second number and the fifth number is related to sixth number.

19: 366 :: ?: 534 :: 24: 581

- (A) 18 (B) 17
(C) 23 (D) 21

2. Select the option in which the numbers are not related in the same way as are the number of the following set.

(29, 121, 16)

- (A) (57, 144, 81) (B) (49, 169, 256)
(C) (63, 81, 81) (D) (77, 196, 265)

3. If '÷' means '-', '-' means '×', '×' means '+', '+' means '÷', what will come in place of the question mark(?) ?

$15 - 3 \div \{(26 \times 144 + 4) - 3\} \div 48$

- (A) - 189 (B) 169
(C) - 289 (D) 189

4. Which of the following letter-clusters will replace the question mark in the given series to make it logically complete?

PALE, TEHA, ?, BMZS, FQVO

- (A) XIEW (B) PIEW
(C) XIDW (D) PIDW

5. Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.

$11 * 425 * 125 * 5 * 149 * 38$

- (A) +, ×, ÷, -, = (B) ×, ÷, ×, -, =

- (C) ×, -, ×, +, = (D) +, ×, ÷, =, -

6. In a code language, 'CARNIVAL' is written as 'MIZXMBWJ' and 'LUXURY' is written as 'CFOZSV'. How will

'SECURITY' be written in that language?

- (A) FXVHIRGB (B) FXVHZUJS
(C) HVXFZUJS (D) HVXFBGRF

7. 'A # B' means 'A is the husband of B'.

'A @ B' means 'A is the mother of B'.

'A & B' means 'A is the sister of B'.

'A \$ B' means 'A is the child of B'.

If 'F # P @ S & G, P \$ O', then how is O related to G?

- (A) Grandfather (B) Grandmother
(C) Cannot be determined (D) Mother

8. Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements: All Time is Clock.

No Second is Time.

All Minute is Second.

Conclusions: I. No Minute is Time.

II. Some Clock is not Second.

III. All Second is Minute.

- (A) Only conclusion III follows
(B) Only conclusions I and III follow
(C) Only conclusions I and II follow
(D) Only conclusion II follows

1-{C} - 2-{D} - 3-{A} - 4-{C} - 5-{B} - 6-{B} - 7-{C} - 8-{C}



DAILY GENERAL STUDIES QUIZ



Monday, 21 October 2024

PHYSICS

- When a stone is thrown in calm water of a pond waves produced are-
(A) Longitudinal wave
(B) Transverse wave
(C) Both A and B
(D) Wave does not Produced
- Which instrument can be used to study the wave form of a signal?
(A) Spectrometer (B) Oscilloscope
(C) Sonometer (D) P-n Junction diode
- What is the unit of electric current?
(A) Meter (B) Ampere
(C) Kelvin (D) Candela
- The burn caused by steam is more severe than, boiling water because-
(A) Steam has latent heat.
(B) Steam enters the body.
(C) Steam is light
(D) All of the above
- Which of the following has the longest wavelength?
(A) Blue light (B) Gamma ray
(C) X-ray (D) Red light
- Which of the following is the unit of perceived loudness of sound?
(A) Decibel (B) Sone
(C) Hertz (D) Phon
- Hydrophone is an instrument that shows changes in
(A) Sound under water
(B) Atmospheric humidity
(C) Density of liquid
(D) Elevation of land
- What is the distance between the poles of the mirror and the focus?
(A) Principal axis
(B) Focal length
(C) Radius of curvature
(D) Center of curvature
- Which physical amount is obtained from the ratio of momentum and the velocity?
(A) Velocity (B) Acceleration
(C) Mass
(D) Angular velocity
- Rocket works on which principle?
(A) Energy Conservation
(B) Bernoulli theorem
(C) Conservation of Momentum
(D) Law of thermodynamics

1-{B} - 2-{B} - 3-{B} - 4-{A} - 5-{D} - 6-{A} - 7-{A} - 8-{B} - 9-{C} - 10-{C}



DAILY ENGLISH VOCAB



Monday, 21 October 2024

(VOCABULARY)

1. Fillip

Meaning: A stimulus or boost to an activity

Synonyms: Stimulus, Impetus, Boost

Antonyms: Curb, Hindrance, Obstacle

Usage: "The tax cut would provide a fillip to car sales."

2. Becalmed

Meaning: Stranded due to lack of wind (nautical)

Synonyms: Stranded, Stuck, Marooned

Antonyms: Sailing, Moving, Underway

Usage: "The fleet was becalmed south of Rampholme."

3. Tumble

Meaning: Fall rapidly in amount or value

Synonyms: Plummet, Plunge, Dive

Antonyms: Rise, Increase, Surge

Usage: "Property prices tumbled."

4. Slump

Meaning: Sit, lean, or fall heavily and limply

Synonyms: Flop, Collapse, Sag

Antonyms: Stand up, Sit up, Straighten

Usage: "She slumped against the cushions."

(WORD SUBSTITUTION)

5. Science of heredity – **Genetics**

6. One who eats human flesh – **Cannibal**

(MISPELT WORDS)

Find the correctly spelt word.

7. (A) Disappearance (B) Dissappearance
(C) Disappaerance (D) **Disappearance**

8. (A) Evenescence (B) Evanascence
(C) **Evanescence** (D) Evanescence

(IDIOMS AND PHRASES)

9. **All bets are off:**

Meaning: That which seemed certain or foreseeable in the future is now completely unpredictable.

Example: If all bets are off, then agreements that have been made no longer apply

10. **up the spout**

Meaning: No longer working or likely to be useful or successful.

Example: If something has gone up the spout, it has gone wrong or been ruined.



DAILY STATIC GK QUIZ



Monday, 21 October 2024

- What was the time period of the Indus Valley Civilization? **from 2600 to 1900 BCE (Approximately)**
- Which are the two most important cities of the Indus Valley Civilization? **Harappa and Mohenjo-Daro.**
- Where was the Great Bath found? **Mohenjo-Daro.**
- Which river is most closely associated with the Indus Valley Civilization? **The Indus River.**
- Which modern countries were part of the Indus Valley Civilization? **India, Pakistan, and Afghanistan.**
- What is the primary type of script used by the people of the Indus Valley? **Pictographic script (Indus script).**
- What type of economy did the Indus Valley Civilization have? **Agrarian economy with trade.**
- Which site is famous for the discovery of the 'Dancing Girl' statue? **Mohenjo-Daro.**
- Which site of the Indus Valley Civilization is located in Gujarat, India? **Lothal.**
- What was the primary material used in the construction of houses in the Indus Valley Civilization? **Baked bricks.**





Monday, 21 October 2024

X-Band Radars

Why in News?

Recently, the Ministry of Earth Sciences approved an **X-band radar** to be installed in Kerala's Wayanad district after devastating floods and landslides.



Expository: -

➤ Radar Overview:

- Radar (Radio Detection and Ranging) uses radio waves to detect and locate objects by analyzing their reflected signals.
- A radar system consists of a transmitter (emits signals) and a receiver (detects and analyzes echoed signals).

Radar Applications in Meteorology:

- **Doppler radars:** Used to measure cloud motion and rainfall intensity by using the Doppler effect and Rayleigh scattering.
- **Pulse-Doppler radar:** Emits pulses of radiation to track rainfall intensity.
- **Doppler effect:** Change in frequency due to motion of the wave source relative to the observer.

X-Band Radar Specifics:

- Operates in the X-band (8-12 GHz) of the electromagnetic spectrum, corresponding to wavelengths of 2-4 cm.
- Suitable for detecting smaller particles like rain droplets and fog.

Radar Network in India:

- India has been using radars for weather detection since the 1950s.
- First indigenously designed X-band storm detection radar was installed in New Delhi in 1970.
- S-band radars (2-4 GHz) are used for long-range detection; **first installed in Visakhapatnam** in 1970.
- By 1996, IMD upgraded 10 X-band radars to digital versions.

Recent Initiatives:

- As of September 2024, India plans to install 56 additional Doppler radars under the **Mission Mausam initiative** by 2026.
- The government is also acquiring 10 X-band Doppler radars for northeastern states and Himachal Pradesh.
- A C-band radar with a 250 km range will be installed in Mangaluru.

