

AFCAT Memory Based Paper - 16 Feb 2024 (Shift 1)

General Awareness

- Q1** The motto of G-20 Summit 2023 is:
 (A) Recover Together, Recover Stronger
 (B) One Earth, One Family, One Future
 (C) People, Planet, Prosperity
 (D) Realizing Opportunities of the 21st Century for All
- Q2** The Operation Zindagi was launched for:
 (A) Bring back Indian Nationalists from Afghanistan.
 (B) Rescue operation in Lhonak Lake
 (C) Rescue operation in Silkyara Bend - Barkot tunnel collapse
 (D) Distribution of covid - 19 vaccine
- Q3** Operation Vajra Prahar, which is a bilateral Indo-US Joint Special Forces exercise, was held in
 (A) Umroi (B) Bakloh
 (C) Ranikhet (D) Goa
- Q4** Who among the following is appointed as the head of the railway board?
 (A) Jaya Varma Sinha
 (B) Ayesha Khan
 (C) Priya Sharma
 (D) Deepika Gupta
- Q5** Fifth scorpene class submarine commissioned by the Indian Navy is
 (A) INS Vagir (B) INS Vagshir
 (C) INS Virat (D) INS Arihant
- Q6** Alaknanda and Bhagirathi meeting point is known as
 (A) Devprayag (B) Nandprayag
 (C) Karnaprayag (D) Vishnuprayag
- Q7** Tawa river is a tributary of which of the following river:
 (A) Chambal river (B) Tapi River
 (C) Narmada river (D) Johilla river
- Q8** Largest Salt Lake in India is
 (A) Sambhar Lake (B) Wular lake
 (C) Kolleru Lake (D) Vembanad Lake
- Q9** What is the designated landing site of Chandrayaan-3, India's lunar mission?
 (A) Shiv Shakti Point
 (B) Chandranagar Point
 (C) Indira Point
 (D) Vikram Point
- Q10** In cricket match, while catching a fast-moving ball, a fielder in the ground gradually pulls his hands backwards with the moving ball to reduce the velocity to zero. The act represents
 (A) Newton's first law of motion
 (B) Newton's second law of motion
 (C) Newton's third law of motion
 (D) law of conservation of energy
- Q11** The number of pair of chromosomes in humans is
 (A) 46 (B) 22
 (C) 23 (D) 44
- Q12** Strait of Malacca separates which of the following two countries:
 (A) Sumatra and Malaysia
 (B) Java and Brunei
 (C) Sumatra and Java
 (D) Malaysia and Brunei
- Q13** Which of the following day "World Environment Day" celebrated?
 (A) 5 June (B) 5 May
 (C) 5 March (D) 5 April
- Q14** 'Discovery of India' book written by Jawaharlal Nehru in which of the following jail?
 (A) Madras Central Jail



- (B) Ahmadnagar Fort Jail
(C) Tihar Jail
(D) Bombay Jail
- Q15** Which one of the following coalfields is **not** located in Jharkhand ?
(A) Jharia (B) Ramgarh
(C) Deogarh (D) Umaria
- Q16** First Battle of Panipat was fought between Babur and _____
(A) Ibrahim Lodhi
(B) Sikandar Lodhi
(C) Bahlol Lodhi
(D) Sher Shah Suri
- Q17** Who has the power to advise the president of India under Article 143?
(A) Supreme Court of India
(B) High Court of India
(C) District Courts
(D) All of the above
- Q18** 1st women won gold medal in the Commonwealth boxer by
(A) MC Mary Kom
(B) Nikhat Zareen
(C) Lovlina Borgohain
(D) Jaismine Lamboria
- Q19** Tasveer khana started by which of the following ruler?
(A) Akbar (B) Humayun
(C) Jahangir (D) Aurangzeb
- Q20** 1st greenfield airport in India was started by:
(A) Donyi Polo Airport, Itanagar
(B) Lokpriya Gopinath Bordoloi International Airport
(C) Lengpui Airport, Mizoram
(D) Dibrugarh Airport
- Q21** Anti-defection is present in which schedule of the constitution?
(A) 10th schedule (B) 11th schedule
(C) 12th schedule (D) 9th schedule
- Q22** Terrestrial ecosystem mostly affected by:
(A) Water (B) Temperature
(C) Sunlight (D) Wind
- Q23** C-295 Aircraft is a joint venture between India and
(A) Israel (B) USA
(C) Spain (D) Russia
- Q24** Which of the following country is not a member of SAARC?
(A) Sri-Lanka (B) India
(C) Bangladesh (D) China
- Q25** Mickey Mouse cartoon designed by which of the following cartoonist?
(A) Walt Disney and Ub Iwerks
(B) Chuck Jones and Ub Iwerks
(C) Chuck Jones
(D) Tex Avery



Answer Key

Q1 (B)
Q2 (C)
Q3 (A)
Q4 (A)
Q5 (A)
Q6 (A)
Q7 (C)
Q8 (A)
Q9 (A)
Q10 (B)
Q11 (C)
Q12 (A)
Q13 (A)

Q14 (B)
Q15 (D)
Q16 (A)
Q17 (A)
Q18 (A)
Q19 (A)
Q20 (A)
Q21 (A)
Q22 (B)
Q23 (C)
Q24 (D)
Q25 (A)



Hints & Solutions

Q1 Text Solution:

The 18th Heads of State and Government Summit of the Group of 20 (G20) took place in September 2023 in New Delhi, India.

Its motto was One Earth, One Family, One Future.

Hence the correct answer is B.

Q2 Text Solution:

The state government initiated Operation Zindagi, a monumental and extraordinary rescue mission aimed at saving 41 workers who were trapped for 17 days following the collapse of the Silkyara Bend - Barkot tunnel in Uttarakhand, India

Q3 Text Solution:

The 14th edition of the Indo-US Joint Special Forces exercise, "**VAJRA PRAHAR 2023**," kicked off at the Joint Training Node in **Umroi**.

Q4 Text Solution:

The appointment of Jaya Varma Sinha as the first woman Chairperson and CEO of the Railway Board marks a significant moment in the 170-year history of the rail transporter. Jaya Varma Sinha, who embraces challenges, assumes her role with determination and enthusiasm.

Q5 Text Solution:

The Indian Navy received the fifth submarine of the Kalvari Class, Yard 11879, named **Vagir**, as part of Project-75 on December 20, 2022. This project involves the indigenous construction of six submarines based on the Scorpene design.

Hence, the correct answer is option A.

Q6 Text Solution:

Devprayag is the site where the Alaknanda and Bhagirathi rivers converge visibly, giving rise to the revered Ganges.

Q7 Text Solution:

Explanation:

- The Tawa River is a tributary of the **Narmada River** of Central India.

- The predominant tributaries of Narmada river from the right are – **Hiran, Tendori, Barna, Kolar, Man, Uri, Hatni, and Orsang**.
- The predominant left tributaries are – **Burner, Banjar, Sher, Shakkar, Dudhi, Tawa, Ganjal, Chhota Tawa, Kundi, Goi, and Karjan**.

Hence, option (C) is the correct answer.

Q8 Text Solution:

The largest inland saltwater lake in India is **Sambhar Lake**. Located in the Sambhar Lake Town in the Jaipur district of Rajasthan, it is a major contributor to Rajasthan's salt production. It spreads over an area of 230 km.

Q9 Text Solution:

Chandrayaan-3's landing point on the Moon is known as **Shiv Shakti Point**.

Q10 Text Solution:

Key Concept-

While catching the fast moving ball fielder in the ground gradually pulls hand backwards with the moving ball to reduce the velocity of the ball it is based on the principle of second law of motion that states that the rate of change of momentum is directly proportional to the force applied.

Explanation-

According to the second law of motion the rate of change of momentum is directly proportional to the force applied or exerted now as per the law when the fast moving ball is caught by the fielder in the ground than he takes some more time by pulling his hand backwards due to which the rate of change momentum decreases due to increase in time which in turn decreases the exerted force/ impact on the hands of fielder thus avoiding injuries when handling fast moving ball.

Hence, the answer is **option(B)** i.e. '**Newton's second law of motion**'.



Q11 Text Solution:**Explanation:**

Chromosomes are single-stranded condensed form of chromatin. Normally each cell contains 23 pair of chromosomes in humans.

Hence, the correct option is 'C'.

Q12 Text Solution:**Explanation:**

- Strait of Malacca, waterway connecting the **Andaman Sea (Indian Ocean) and the South China Sea (Pacific Ocean)**.
- It runs between **the Indonesian island of Sumatra to the west and peninsular (West) Malaysia and extreme southern Thailand to the east** and has an area of about 25,000 square miles (65,000 square km).

Hence, the correct answer is (A).

Q13 Text Solution:**Explanation:**

- The United Nations Environment Programme (UNEP) and held annually on **5 June** since 1973, **World Environment Day** is the largest global platform for environmental public outreach and is celebrated by millions of people across the world.
- The UN General Assembly designated 5 June as World Environment Day, **marking the first day of the Stockholm Conference on the Human Environment**.

Hence, option (A) is the correct answer.

Q14 Text Solution:**Explanation:**

- 'The Discovery of India' was written by **Jawahrlal Nehru** while he was imprisoned in Maharashtra.
- In his book, he writes about the various aspects of India's 'Unity in Diversity'.
- His books were written during imprisonment.
- 'Discovery of India' was the last book which he wrote in **Ahmadnagar Fort Jail** during the period 1942 till 1945.

Hence, option (B) is the correct answer.

Q15 Text Solution:**Explanations:**

- In the **Indian state of Jharkhand**, there is a coal field called **Jharia**.
- It has been extensively mined for more than a century and is renowned for its rich coal resources.
- India's Jharkhand state has the district of Ramgarh.
- It is well-known for its coal mines, and coal mining in the area has a long history that dates back to the British colonial era.
- A city and municipality, Deoghar is located in the Indian state of Jharkhand. Additionally, the area is well-known for its coal mines, and coal mining there has a long history extending back to the British colonial era.
- A coalfield called Umaria can be found in the Indian state of Madhya Pradesh. It is not situated in the Jharkhand state.

Hence, the correct answer will be (D) ie. Umaria.

Q16 Text Solution:

The Battle of Panipat was fought between Babur and Ibrahim Lodi. The **First Battle of Panipat occurred on April 21, 1526**, near the village of Panipat in Haryana, marking the establishment of the Mughal Empire in India.

Hence the correct answer is option A.

Q17 Text Solution:

Under Article 143 of the Indian Constitution, the President of India has the power to seek the opinion of the Supreme Court of India on any question of law or fact that has arisen or is likely to arise and that, in the President's opinion, is of public importance. Therefore, it is the Supreme Court of India that advises the President under Article 143.

Q18 Text Solution:

Mary Kom became the first Indian woman boxer to win a gold at the 2018 Commonwealth



Games. The Government of Manipur has conferred on her the title "Meethoi Leima"

Q19 Text Solution:

Akbar initiated the establishment of a dedicated department for the creation of paintings and manuscripts. This led to the formation of a formal artistic studio called Tasvir Khana under his patronage.

Q20 Text Solution:

The inaugural Greenfield airport in Arunachal Pradesh, named Donyi Polo Airport, is situated in Itanagar.

Q21 Text Solution:

The **10th Schedule** of the Indian Constitution popularly referred to as the 'Anti-Defection Law' was inserted by the 52nd Amendment.

Q22 Text Solution:

Explanation:

The type of terrestrial ecosystem found in a particular place is dependent on **the temperature range, the average amount of**

precipitation received, the soil type, and amount of light it receives.

Hence, option (B) is the correct answer.

Q23 Text Solution:

The C-295 aircraft is a joint venture between India and Spain.

Q24 Text Solution:

Explanation:

- The **South Asian Association for Regional Cooperation** (SAARC) was established on 8 December 1985.
- The Secretariat of the Association was set up in Kathmandu, Nepal, on 17 January 1987.
- SAARC has eight member countries (**Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan and Sri-Lanka**).

Hence, option (D) is the correct answer.

Q25 Text Solution:

Mickey Mouse is an American cartoon character co-created in 1928 by **Walt Disney and Ub Iwerks**.



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