Courses

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 CAPF
 CDS EXAM
 INET OFFICER
 MNS
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# INDIAN AIR FORCE YEARLY REVIEW 2021

### Modernisation

- Induction of LCA (Tejas), Arudhra and Aslesha Radars, Astra Air to Air missile, Akash Surface to Air missile system, Advance Light Helicopter, and Light Combat Helicopter are a testimony of IAF's commitment to this vision. These systems were added to IAF's inventory.
- The year 2021 saw the total number of Rafale aircraft go up to 30. 19 Low-Level Transportable Radars (LTTR) have also been supplied to IAF wherein BEL benefitted through the Transfer of Technology (ToT) as well.



### New Airbus transport aircraft to replace IAF's Avro planes

- The Cabinet Committee on Security approved the procurement of 56 C-295 medium transport aircraft for the Indian Air Force to replace its ageing Avro planes which were first inducted around 60 years ago.
- 16 aircraft will be delivered in a flyaway condition by the Airbus Defence and Space of Spain within 48 months of signing the contract while the remaining 40 planes will be manufactured in India, according to the defence ministry.
- The cost of the procurement is expected to be in the range of ₹18,000 to ₹20,000 crores, people familiar with the project said.

• The 40 planes will be manufactured in India by a consortium of the Airbus Defence and Space and Tata Advanced Systems Limited (TASL) within 10 years of signing the contract.



### **Emergency Landing Facilities (ELFs)**

- The year 2021 witnessed the inauguration ceremonies of two new ETFs. The first was along NH-925A (Gandhay-Bhakasar stretch, Rajasthan) which was inaugurated by the Raksha Mantri on 09 Sep 21.
- On 16 Nov 21 successful landings were executed by Mirage-2000, C-130J, and An-32 aircraft at ELF Sultanpur in Uttar Pradesh. Prime Minister, Chief of Defence Staff, and Chief of Air Staff were onboarding the C-130J aircraft which landed on the ELF as part of the inauguration ceremony.





### Humanitarian Assistance and Disaster Relief

### **Afghanistan Evacuation Operations**

- IAF was called upon to evacuate Indians and some other nationals from Afghanistan. Evacuation activities were undertaken, first from Kandahar, then Mazar-e-Sharif & finally from Kabul.
- IAF deployed its C-17 and C-130J aircraft for the evacuation. A C-17 each was utilised for evacuation from Kandahar (10 Jul 21) and Mazar-e-Sharif (10 Aug 21). In addition, five aircraft (four C-17s and one C-130J) were utilised between 15 and 28 Aug 21 to rescue 132 Govt officials, 316 Indian citizens & 126 persons of other nationalities.



### **Covid Related HADR Operations**

 42 Heavy and medium airlift assets which included C-17, IL-76 and C-130Js were used for these operations. 3757 hrs were flown, airlifting 15306 Tons of COVID related medical equipment and supplies.



### Air Chief Marshal VR Chaudhari Takes Over As The Chief Of The Air Staff

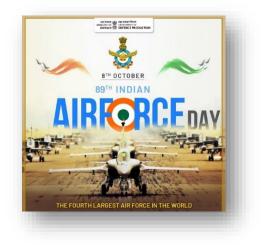
- Air Chief Marshal VR Chaudhari PVSM AVSM VM ADC took over as The Chief of the Air Staff (CAS) at a ceremony at Air Headquarters (Vayu Bhawan).
- An alumnus of NDA, the CAS was commissioned in Dec 82 in the fighter stream of the IAF. He has flown more than 3800 hours on multiple fighters and trainer aircraft.



### Air Force Day Parade 2021 At Hindon Air Force Station

- The parade on the occasion of Air Force Day commenced at Hindon Air Base in Uttar Pradesh's Ghaziabad. The air display started with flag bearing skydivers of the famous AKASH GANGA Team dropping out of AN-32 aircraft in their colourful canopies.
- The IAF was established on October 8, 1932, in undivided India which was under colonial rule. It was given the prefix "Royal" by King George VI for its contribution during the Second World War. The prefix was later dropped in 1950 when India became a republic.





### **Exercises with Foreign IAF**

### Ex Zapad-21

• A bi-service Indo-Russian exercise took place at Chakalovasky, Russia on Sep 21. IAF participated with one IL-76 aircraft.



#### **Ex Peace Mission**

• On Sep 21, an IL-76 aircraft of IAF participated in an SCO exercise named Peace Mission-21.





### Ex Blue Flag and Ex with Egyptian Air Force

• Three IL-78 aircraft along with five Mirage 2000 aircraft took part in multilateral exercise 'Blue Flag' in Israel during Oct 21. On their return journey, these IAF aircraft participated in an exercise with the Egyptian Air Force.



### Ex Yudh Abhyas 21

• A C-17 aircraft of IAF participated in bilateral engagements with PACAF after induction of IA troops at Alaska, USA.



### Joint Exercise Desert Knight-21

• Indian Air Force (IAF) and French Air and Space Force will conduct a bilateral Air exercise, Ex Desert Knight-21 at Air Force Station Jodhpur from 20 to 24th Jan 2021.





#### Konkan Shakti 2021

- The maiden India-UK Joint Tri-Service exercise Konkan Shakti held between October 21 and 27 off the west coast of India and aims to derive "mutual benefits" from each other's experiences.
- The harbour phase conducted in Mumbai from October 21 to 23, while at sea, the exercises be conducted from October 24 to 27.

# IAF formally inducts Rafale jets into 101 squadrons of Eastern Air Command

• The 101 Squadron is the second IAF squadron to be equipped with the Rafale fighter jets. In September last year, the Rafale aircraft were inducted into the 17 "Golden Arrows" Squadron.





### **Officer Ranks**

Officer Ranks

| INDIAN ARMY        | INDIAN NAVY          | INDIAN AIR FORCE  |
|--------------------|----------------------|-------------------|
| General            | Admiral              | Air Chief Marshal |
| Lieutenant General | Vice Admiral         | Air Marshal       |
| Major General      | Rear Admiral         | Air Vice Marshal  |
| Brigadier          | Commodore            | Air Commodore     |
| Colonel            | Captain              | Group Captain     |
| Lieutenant Colonel | Commander            | Wing Commander    |
| Major              | Lieutenant Commander | Squadron Leader   |
| Captain            | Lieutenant           | Flight Lieutenant |
| Lieutenant         | Sub-Lieutenant       | Flying Officer    |



### **Other Ranks**

#### Personnel Below Officer Ranks

| INDIAN ARMY   | INDIAN NAVY                               | INDIAN AIR FORCE       |
|---------------|---|------------------------|
| Subedar Major | Master Chief Petty Officer (First Class)  | Master Warrant Officer |
| Subedar       | Master Chief Petty Officer (Second Class) | Warrant Officer        |
| Naib Subedar  | Chief Petty Officer                       | Junior Warrant Officer |
| Havaldar      | Petty Officer                             | Sergeant               |
| Naik          | Able Seaman                               | Corporal               |
| Lance Naik    | Leading Seaman                            | Leading Aircraftsman   |
| Sepoy         | Seaman                                    | Aircraftsman           |
| <u>।[घ]</u>   |   |                        |

### **Revamped Official Website**

• The Indian Air Force launched a revamped website 'indianairforce.nic.in' with better visual effects and enhanced content and contemporary graphics. The website was designed and developed with in-house resources.



### IAF Contribution Towards Efficient Use of Indian Air Space

- The IAF & Ministry of Civil Aviation have jointly formed a mechanism for efficient use of airspace. To achieve this, airspace management cells at National and regional levels have been created to facilitate transit through restricted airspaces.
- This has resulted in reduced flying time for civil aircraft accruing savings for the airlines and reduction of carbon footprints. The Airspace Management Cells are jointly manned by IAF and Airports Authority of India personnel.



### IAF Contribution Towards Efficient Use of Indian Air Space

 Along with the airspace, IAF has also been actively engaged with MoCA for sharing its airports for supporting the increased demands of civil aviation. Accordingly, 39 out of 53 IAF airfields and 08 Advanced Landing Grounds in the North-eastern region have been opened for joint use to accommodate civil scheduled flights. This also includes flight operations under Regional Connectivity Scheme – Ude Desh Ka Aam Nagrik (RCS-UDAN).



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### Aero India Show 2021

- Asia's largest military aviation exhibition 'Aero India Show 2021' was held at Bengaluru from 04-05 Feb 21 by Department of Defence Production, MoD. The 13th edition of the Aero India show began at Bengaluru's Yelahanka Air Force Station on Tuesday. The three-day show will be held from February 3 to 5.
- The event was inaugurated by Union Defence Minister Rajnath Singh.



### Air version of BrahMos supersonic cruise missile

- Air version of BrahMos supersonic cruise missile was successfully test-fired from the supersonic fighter aircraft Sukhoi 30 MK-I on 08 December 2021. BrahMos is a Joint Venture between India (DRDO) and Russia (NPOM) for the development, production & marketing of the supersonic cruise missile.
- The launch is a major milestone in the BrahMos development. It clears the system for the serial production of air-version BrahMos missiles within the country.





### Successful Maiden Flight Test of Akash Prime Missile

- A new version of the Akash Missile 'Akash Prime' has been successfully flight tested from Integrated Test Range (ITR), Chandipur, Odisha on 27 September 2021.
- In comparison to the existing Akash System, Akash Prime is equipped with an indigenous active Radio Frequency (RF) seeker for improved accuracy.



### First Smart Anti Airfield Weapon Successfully Test Fired from Hawk-I Aircraft

 In a big boost to the indigenous Hawk-i program, HAL today successfully testfired a Smart Anti-Airfield Weapon (SAAW) from the Hawk-i aircraft off the coast of Odisha. The indigenous stand-off weapon developed by Research Centre Imarat (RCI), DRDO is the first smart weapon fired from an Indian Hawk-Mk132.





### DRDO Conducts Maiden Trial of Python-5 Air To Air Missile From LCA Tejas

- Tejas, India's indigenous Light Combat Aircraft, added the 5th generation Python-5 Air-to-Air Missile (AAM) in its air-to-air weapons capability on April 27, 2021. Trials were also aimed to validate the enhanced capability of already integrated Derby Beyond Visual Range (BVR) AAM on Tejas.
- Chaff is a critical defence technology used to protect fighter aircraft from hostile radar threats. The importance of this technology lies in the fact that a very less quantity of chaff material deployed in the air acts as a decoy to deflect enemy's missiles for ensuring the safety of the fighter aircraft.



### IAF Builds One Of World's Highest Mobile ATC Towers In Ladakh

- The Indian Air Force (IAF) has deployed one of the world's highest mobile air traffic control (ATC) towers at the Advanced Landing Ground here to control fixed-wing aircraft and helicopter operations along the Line of Actual Control.
- The ATC, which is one of the world's highest, controls the operations of the fixed-wing aircraft and helicopters operating in the eastern Ladakh region, Group Captain Ajay Rathi of the Air Force told the news agency.





### **REVIEW QUESTIONS**

- 1. \_\_\_\_\_ is the only Chief of Air Staff to be given the rank of Marshall of the Indian Air Force?
- A. O.P. Mehra
- B. Subroto Mukherjee
- C. Arjan Singh
- D. None of the above ANSWER: C
- 2. Which of the following aircraft is the air-to-air refueller of the Indian Air Force?
- A. Ilyushin 78
- B. C-130J Hercules
- C. Ilyushin 76
- D. C 17 Globemaster ANSWER: A
- 3. The Chief of IAF at the time of Indo-Pak war of 1971?
- A. Field Marshall SHFJ Manekshaw
- B. Pratap Chandra Lal
- C. C General KS Thimayya
- D. D General PP Kumaramangalam **ANSWER: B**

### 4. Headquarters of Southwestern Air Command located?

- A. Pune
- B. Gandhinagar
- C. Jodhpur
- D. Vadodara ANSWER: B
- 5. Hq. of IAF is located at\_\_\_\_
- A. Mumbai
- B. Chennai
- C. New Delhi
- D. Gurugram ANSWER: C

### 6. Current Vice Chief of the Air Staff is\_\_\_\_

- A. Air Marshal Narmdeshwar Tiwari
- B. Air Marshal Sandeep Singh
- C. Air Marshal Prashant Bharadwaj
- D. Air Marshal Vibhas Pande ANSWER: B

### 7. \_\_\_\_\_is the Supreme Commander of all Indian armed forces.

- A. CDS
- B. Prime Minister
- C. The President
- D. Defence Minister
  - ANSWER: C

#### 8. Central Air Command is located at

- A. Gandhinagar, Gujarat
- B. Shillong, Meghalaya
- C. Thiruvananthapuram, Kerala
- D. Prayagraj, Uttar Pradesh ANSWER: D

### 9. Ex Desert Knight 2021Exercise between India and \_\_\_\_\_

- A. USA
- B. China
- C. Russia

D. France ANSWER: D

### 10. The Garud commandos are the special forces of the\_\_\_\_

- A. IAF
- B. Indian Navy
- C. Indian Army
- D. BSF

**ANSWER: A** 

# 11.Which of the following aircraft is the air-to-air refueller of the Indian Air Force?

- A. Ilyushin 78
- B. C 130J Hercules
- C. Ilyushin 76
- D. C 17 Globemaster ANSWER: A

#### 12.Exercise Desert Flag –VI conducted at

- A. Jaipur, India
- B. Berlin, Germany
- C. Alaska, U.S.A
- D. Al Dhafra, UAE ANSWER: D

#### 13. The highest rank attainable in the IAF is\_\_\_\_

- A. Commodore
- B. Air chief marshal
- C. Marshal of the Indian Air Force
- D. Air vice-marshal
  - **ANSWER: C**

# 14. The first sportsperson & the first civilian to be awarded the honorary rank of group captain by the IAF

- A. Sachin Tendulkar
- B. Kapil Dev
- C. Saurav Ganguly
- D. Virat Kohli

#### **ANSWER: A**



#### 15.AEW&CS stands for

- A. Airborne early west and control system
- B. Airborne early warning and central system
- C. Airborne early warning and control system
- D. Airforce early warning and control system **ANSWER: C**

#### 16.Trainer aircraft of IAF is \_\_\_\_\_

- A. C-130Js
- B. HAL Dhruv
- C. HAL HPT-32 Deepak
- D. Antonov An-32 ANSWER: C

#### 17. The two new Emergency Landing Facilities inaugurated at\_\_\_\_

- A. Rajasthan & Uttar Pradesh
- B. Rajasthan & Madhya Pradesh
- C. Kerala & Gujrat
- D. J&K & New Delhi

#### **ANSWER: A**

#### 18. Which is the transport aircraft of IAF?

- A. Mig-21 Bison
- B. Su-30 MK I
- C. Mig-29
- D. C-17 Globemaster IIIs ANSWER: D

#### 19.Ex Zapad-21 held b/w India &

- A. Japan
- B. USA
- C. China
- D. Russia

ANSWER: D

### 20.Indian Air Force Academy located at\_\_\_\_

- A. Pune
- B. Panaji
- C. Ezhimala
- D. Dundigal ANSWER: D

### 21.Current Chief of the Air Staff (CAS) of the IAF is \_\_\_\_

- A. R. Hari Kumar
- B. Sunil Lamba
- C. Karambir Singh
- D. Vivek Ram Chaudhari ANSWER: D

### 22.IAF day is celebrated on\_

- A. 15 January
- B. 15 December
- C. 4 December
- D. 8 October ANSWER: D

### 23.Motto of IAF

- A. Touch the sky with glory
- B. Service Before Self
- C. Duty unto Death
- D. Sacrifice ANSWER: A

#### 24.MICA missile is a

- A. Surface to Surface missile
- B. Surface to Sea missile
- C. Air to Surface missile
- D. Air to Air missile **ANSWER: D**

### 25.Commands of Indian Air Force?

- A. 5
- B. 6
- C. 7
- D. 8

ANSWER: C



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