



THE ACHIEVERS IAS ACADEMY

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1. Answer: B

Notes: Punjab government launched an automated auditory brainstem response system (AABR) under universal new-born hearing screening programme.

Punjab has become the first state in the country to introduce the AABR system to manage hearing loss in new-born and young children. This is done under the Universal new-born hearing screening programme.

2. Answer: B

Notes: The Indian Institute of Technology, Ropar has developed a first-of-its-kind Oxygen Rationing Device, named AMLEX. The device will help to supply a required volume of oxygen to the patients while inhaling and trips when the patient is exhaling Carbon dioxide. This process would help to save oxygen which gets unnecessarily wasted. The device can be operated on both battery as well as line supply.

3. Answer: A

Notes: Russia has invited India for the first time to the Russia-US-China Troika Plus meet on Afghanistan. The meeting aims to discuss the role of Taliban and the future of the landlocked country, among other issues. As per media reports, Iran has also been invited for the meeting. Pakistan and representatives from Afghanistan are also expected to take part in the meeting.

4. Answer: C

Notes: The United States President's "nuclear football" or the Presidential Emergency Satchel is said to contain the codes needed for a nuclear strike. One such briefcase nearly came within range of rioters storming the US Capitol on January 6, this year. The Pentagon's watchdog said that it would evaluate the safety protocols surrounding the issue and find if it were "lost, stolen or compromised." Any nuclear strike order would be confirmed and processed only by the Military.

5. Answer: B

Notes: NASA and the Canadian space agency are building a telescope named the Super Pressure Balloon-borne Imaging Telescope or SuperBIT. It is said to be the successor to the Hubble telescope. As per recent media reports, a stadium-sized helium balloon is going to be used to lift the telescope, which is to be sent to the upper levels of the earth's atmosphere. It has been designed by the University of Toronto, Princeton University and Durham University in England together, in conjunction with NASA and the Canadian Space Agency.

6. Answer: A

Notes: The Union Government is implementing Bhartiya Prakritik Krishi Paddhati (BPKP) as a sub scheme of Paramparagat Krishi Vikas Yojana (PKVY) from 2020-21. It aims to promote traditional indigenous practices. The scheme focuses on exclusion of all synthetic chemical inputs and promotes on-farm biomass recycling. Under BPKP, financial assistance of Rs 12200 per hectare for 3 years is provided for cluster formation.

7. Answer: A

Notes: The Assam Cabinet announced that Gaon Buras, village-level functionaries of the district administration, will hereafter be called 'Gaon Pradhans'. The British appointed the oldest person in the village as the head, who would oversee matters relating to land and revenue. They were called 'Gaon Bura' in Assam. As several youngsters are becoming village-level functionaries, Bura (meaning Old in Assamese) has been replaced.

8. Answer: C

Notes : The GST (Compensation to States) Act, 2017 guarantees states compensation for five years (till 2022) for any revenue loss arising due to GST implementation. The Act guarantees states a 14% annual growth in their GST revenue, failing which compensation grants are provided to states to meet the shortfall. These grants are funded through the GST compensation cess levied by the centre. As per the revised estimate of 2020-21, Bihar is estimated to receive Rs 7,405 crore as GST compensation.

9. Answer: B

Notes: As per the RBI data, India's foreign exchange reserves rose by USD 835 million to touch a record high of USD 612.73 billion in the week ended July 16, 2021. The foreign currency assets (FCA) is the major component of the overall reserves. It rose by USD 463 million to USD 568.748 billion in the week. Gold reserves were up by USD 377 million and the special drawing rights (SDRs) with the International Monetary Fund (IMF) were up by USD 1 million. With this, India became the fourth largest Forex holder.

10. Answer: C

Notes: Sohra, also known as Cherrapunjee, is a high-altitude town in the northeast Indian state of Meghalaya. The Union Home Minister Amit Shah launched the Green Sohra Afforestation Campaign at Sohra. Amit Shah also inaugurated the Greater Sohra Water Supply Scheme. This afforestation campaign will be run by the Meghalaya Government with the help of Assam Rifles.

11. Answer: A

Notes: Union Minister of State for Culture and Parliamentary Affairs Arjun Ram Meghwal recently inaugurated the exhibition "Azad Ki Shaurya Gatha" based on the life of the martyr 'Chandrasekhar Azad'. The exhibition was inaugurated at Indira Gandhi National Center for the Arts (IGNCA), New Delhi. This is a part of "Azadi Ka Amrit Mahotsav", to celebrate 75 years of our country's freedom. A series of programs are being organised by the Ministry of Culture to celebrate "Azadi Ka Amrit Mahotsav".

12. Answer: D

Notes: Exercise Cutlass Express 2021, commenced on July 26 along the East Coast of Africa. It is an annual maritime exercise conducted to promote national and regional maritime security in East Africa and the Western Indian Ocean. The 2021 edition of the exercise involves the participation of 12 Eastern African countries, US, UK, India and various international organisations, like IMO, UNODC, EUNAVFOR, CRIMARIO and EUCAP Somalia. Indian Naval Ship (INS) Talwar is participating in Exercise Cutlass Express 2021.

13. Answer: C

Notes: The Indian contingent came out at the 25th position in the Parade of Nations at the Tokyo Olympics opening ceremony, behind Republic of Iran. The Indian flag bearers were boxing legend Mary Kom and field hockey player Manpreet Singh.

14. Answer: B

Notes : The Indian Olympic Association (IOA) announced on July 23, 2021 that it has roped in Adani Group as a sponsor for the 2020 Tokyo Olympics and the future. MPL Sports Foundation had earlier entered into a sponsorship agreement with the Indian Olympic Association to be the 'Principal Sponsor' for India at the Tokyo Olympic Games.

15. Answer: B

Notes : On July 23rd, National Broadcasting Day is observed across the country annually. On this day in 1927, the Indian Broadcasting Company (IBC) started radio broadcasting from the Bombay station. To mark this event, All India Radio (AIR), in New Delhi, held a conference on the Creation of New India and Broadcasting Medium. IBC, a private entity, was granted permission by the British Government to operate two radio stations in the country. They were located in Calcutta and Bombay.

16. Answer: A

Notes : The Kakatiya Rudreshwara Temple, popularly known as Ramappa Temple at Palampet, Warangal, Telangana was inscribed in UNESCO's World Heritage List on July 25, 2021 during the 44th session of the World Heritage Committee in Fuzhou, China. The temple has become the 39th site in India to gain the prestigious tag.

17. Answer: B

Notes : Weightlifter Mirabai Chanu bagged a silver medal in the women's 49-kg category at the Tokyo Olympics 2020 on July 24, 2021. The 26-year-old lifted a total of 202-kg, 115-kg in clean and jerk and 87-kg in snatch. She has become the second Indian weightlifter to win an Olympic medal after Karnam Malleswari, who had won the bronze medal in the 69-kg category at the 2000 Sydney Olympic Games.

18. Answer: D

Notes : Basavaraj Somappa Bommai, senior BJP leader and son of former Karnataka Chief Minister, took oath as the 23rd Chief Minister of Karnataka in a swearing-in ceremony at the Raj Bhavan on July 28, 2021. The 61-year-old is known to be a Yeddyurappa loyalist. He has been a Minister in both cabinets of BS Yediyurappa.

19. Answer: C

Notes : The Kingdom of Saudi Arabia has announced a three-year travel ban and huge penalties for those citizens who visit countries that are on the nation's 'red list'. The list includes countries such as India, Iran, Indonesia, UAE, Afghanistan, Vietnam, Venezuela, Iran, Turkey, Yemen and Armenia.

20. Answer: B

Notes : Chhattisgarh Chief Minister Bhupesh Baghel announced on July 28, 2021, that the state government will launch Rajiv Gandhi Gramin Bhoomihin Krishi Majdoor Nyay Yojana under which the landless families will be provided financial assistance of Rs. 6,000 every year.

21. Answer: B

Notes : The Union Government has amended the rules pertaining to incorporation of companies under the Companies Act, 2013. The Corporate affairs ministry, which is implementing the Companies Act, 2013, has amended the Companies (Incorporation) Rules, 2014.

Changes are made with respect to allotment of a new name to an existing company under Section 16 of the Act. The changes will come into effect from September 1.

22. Answer: C

Notes : According to the third annual report on periodic labour force survey (PLFS), conducted by the National Statistical Office (NSO) between July 2019-June 2020, the unemployment rate fell to 4.8% in 2019-20.

The unemployment rate in 2018-19 was 5.8% and in 2017-18 was 6.1%. Labour indicators recorded an increase in 2019-20, as compared to previous years.

23. Answer: C

Notes : Kandla Special Economic Zone (KASEZ) is the First Green SEZ to achieve the IGBC Green Cities Platinum Rating for Existing Cities, by CII's Indian Green Building Council (IGBC).

KASEZ was Asia's first Export Processing Zone (EPZ) and it is considered as India's largest multi-product functional SEZ. It is situated on the gulf of Kutch on the west coast of Gujarat at a distance of 9 Kms from Kandla port.

24. Answer: A

Notes : The Agriculture Ministry has commenced the project of creating 'Agristack', which is a digital ecosystem of agriculture in the country. It aims to help the government in effective planning towards increasing the income of farmers and improving the efficiency of the agriculture sector.

Recently, the Agriculture Ministry also announced that the Government is aiming to create a National Farmers Database using digitised land records, to provide personalised services to farmers.

25. Answer: D

Notes : COVID BEEP is India's first indigenous, wireless physiological parameters monitoring system for COVID-19 patients, developed by ESIC Medical College Hyderabad in collaboration with Electronics Corporation of India Ltd. (ECIL) and Department of Atomic Energy.

A proposal has been recently submitted to the Ministry of Labour & Employment for large scale deployment of the system.

26. Answer: A

Notes : The ministry of Social justice and empowerment has formulated this scheme. This scheme covers several comprehensive measures including welfare measures for beggars. The focus of the scheme is extensively on rehabilitation skill development, provision of medical facilities, education, economic linkages and so on. It includes a subscheme - 'Central Sector Scheme for Comprehensive Rehabilitation of persons engaged in Begging'. Scheme provides for the use of the existing shelter

homes available with the State/UT Governments and Urban local bodies for rehabilitation of the persons engaged in the act of Begging. In case of non-availability of existing shelter homes, new dedicated shelter homes are to be set up by the implementing agencies.

27. Answer: C

Notes : Recently, the Defence Research and Development Organisation (DRDO) has successfully flight tested indigenously developed Man-Portable Anti Tank Guided Missile (MPATGM). It is low weight and fire and forget missile. The missile was launched from a man-portable Tripod launcher. This is the third series of successful testing of MPATGM. The missile is incorporated with Infrared Imaging Seeker along with advanced avionics.

28. Answer: B

Notes : Uttar Pradesh cabinet has decided to set up a panchayat secretary at secretariat in all panchayats of the state. The move is aimed at strengthening rural democracy and providing employment to rural youth. The panchayat secretary at 2 will be established to all Gram panchayats for the first time in the state. There are currently 58,189 gram panchayats in UP.

29. Answer: C

Notes : The government has extended the duration of the Stand up India scheme up to the year 2025. This scheme was launched by PM Narendra Modi on April 5 2016. The objective of the scheme is to facilitate loans from scheduled commercial banks of value between rupees 10 lakh and rupees 1 crore to at least one SC or St borrower and one woman borrower per Bank branch for setting up Greenfield Enterprise.

30. Answer: B

Notes : The RBI has launched its quarterly Industrial Outlook Survey to assess the performance of the manufacturing sector. The central bank has also announced the launch of the next round of the quarterly services and infrastructure Outlook survey for the current quarter. The survey will assess the business situation for the current quarter from select companies.

31. Answer: B

Notes : Lokmanya Bal Gangadhar Tilak was real name was Keshav Gangadhar Tilak was born on 23rd July, 1856. He was a freedom warrior, social thinker, philosopher and educator who was instrumental in India's Independence effort. He was popularly known as the Father of Swaraj. He established the Deccan Education Society in 1884 to impart nationalist principles to young people.

32. Answer: D

Notes : Agricultural and Processed Food Products Export Development Authority is collaborating with Ladakh officials to boost unique agricultural produce. Identified areas of work include enhancement of production of fruits with medicinal values including sea buckthorn, apricot and organic produce. The aim is to ensure that Ladakh achieves the goal of becoming an organic region by 2025. APEDA is an apex body under the Ministry of Commerce and Industry, which is responsible for the export promotion of agricultural products. It is headquartered in New Delhi.

33. Answer: A

Notes : Filmmaker Rakesh Omprakash Mehra is coming up with his autobiography named as "The Stranger In The Mirror". Published by Rupa publications, the book will hit the stands across the Country on July 27. Mehra is known for movies like Rang De Basanti, Delhi 6, Bhaag Milkha Bhaag etc.

34. Answer: B

Notes ; Given the situation due to COVID-19, the central government permitted states to increase their fiscal deficit up to 5% of GSDP in 2020-21. All states are allowed to increase their fiscal deficit up to 4% of GSDP. The remaining 1% of GSDP is conditional on the implementation of reforms by states in the following areas (0.25% of GSDP for each reform): (i) one nation one ration card, (ii) ease of doing business, (iii) urban local body/ utility, and (iv) power distribution.

35. Answer: A

Notes : FC is a Constitutional Body.

36. Answer: C

Notes : The Chairperson of 15th Finance Commission is Nand Kishore Singh.

37. Answer: C

Notes : The state govt. of Bihar will provide financial assistance of upto Rs. 10 lakh to start a small scale industry or trade. Out of the total financial assistance under Mukhyamantri EBC Udyami Yojana, half of the amount would be given as subsidy and rest as interest-free loans. Loan repayment is to be made in 84 installments starting after the functioning of their new business.

38. Answer: B

Notes : This scheme is implemented to integrate the girl child in the education sector and to make them self-reliant. If a girl passes her graduation with any stream then the incentive given to her will be Rs. 25000.

39. Answer: B

Notes : Bihar government has launched a new Bal Sahayata Yojana 2021 for children orphaned due to COVID-19. In this scheme, the state govt. will provide monthly financial aid of Rs 1500 to Coronavirus orphans. All such children, whether boy or girl who lost either of their parents due to COVID-19 would be given assistance of Rs. 1500 per month.

40. Answer: C

Notes : India's association with the Olympics goes back to the second-ever edition of the modern Games - the 1900 Paris Olympics. Norman Pritchard became the first Indian to take part in an Olympics. India won its first Olympic medal - a silver in the 200m sprint, as Norman Pritchard crossed the finish line behind Walter Tewksbury of the United States. It made Pritchard the first Asian-born athlete to win an Olympic medal. Due to Pritchard's British ancestry, there have been debates over Norman Pritchard's nationality but the 1875-born did travel with an Indian travel document (a modern-day passport) and had an Indian birth certificate. India first sent its official contingent of athletes at the 1920 Antwerp Olympics. Eminent businessman Dorabji Tata is credited with taking the initiative to form an 'Indian Olympic Association' to pick and train athletes who could participate in the 1920 Olympics. The first-ever Indian Olympic contingent comprised Purma Bannerjee (100m and 400m), Phadappa Chaugule (10000m and marathon), Sadashiv Datar (marathon), Kumar Navale and Randhir Shindes (both wrestling). Purma Banerjee was chosen to carry the Indian flag and thus became the first Indian flag-bearer at the Olympics opening ceremony.

41. Answer: C

Notes : Defence Minister Rajnath Singh has flagged in the Indian Army's skiing expedition that was conducted in the Himalayan mountain ranges between March 10 and July 6. The expedition, called ARMEX-21, was flagged off at Karakoram Pass in Ladakh on March 10 and culminated at Malari in Uttarakhand on July 6 covering 1,660 km in 119 days.

The ARMEX-21 was conducted in the mountain ranges of the Himalayan region to promote the adventure activity in the country and the Indian Army," it stated. During the expedition, the team travelled through several passes at a height of 5,000-6,500 meters and through glaciers, valleys and rivers.

42. Answer: A

Notes : Indian scientists have synthesized a low-cost gold nano biocomposite material from onion peel with anti-inflammatory and antioxidant properties that can pave the way towards an effective herbal drug. The secondary product of metabolism of plants, such as flavonoids, demonstrates high degrees of antioxidant, anti-inflammatory, and anti-cancer activities. Among flavonoids, quercetin which is found in many fruits, vegetables, red onions, plays an important role in decreasing inflammation bringing down the level of various cytokines. Scientists from the Institute of Advanced Study in Science and Technology (IASST), an autonomous institute of the Department of Science & Technology (DST), GoI utilized the onion (*Allium cepa*) peel for the synthesis of gold nano bio-conjugate. The team led by Dr. Devasish Chowdhury, Associate Professor, extracted the crude onion peel and subjected it to fractional distillation with ethyl acetate, butanol, methanol, and water. These fractionate were tested for various antioxidant activities.

43. Answer: B

Notes : Amsterdam, has unveiled the world's first 3D-printed steel pedestrian bridge. This project has been opened on the Oudezijds Achterburgwal canal in the city of Amsterdam. The opening ceremony of this bridge was attended by the Queen of the Netherlands, Máxima. The length of the bridge is nearly 40 feet.

It is a 6-ton stainless steel structure.

This bridge has been constructed by MX3D an Amsterdam based 3D metal printing company. The entire printing process, with the help of four robots, took just six months. The bridge has been designed by the Joris Laarman Lab and was first unveiled during the Dutch Design Week in the year 2018. After several load-testing rounds were carried out in 2019 there were plans to install the structure in early 2020. However, the ongoing site preparation work at the canal delayed the bridge's installation.

44. Answer: B

Notes : On July 24, 1860, income tax was introduced in India by Sir James Wilson to compensate the British government for the losses incurred during the First War of Independence in 1857.

The Income Tax department marked Friday as the 160th Income Tax Day or Aaykar Diwas. July 24 has been celebrated as the Income Tax day in India since 2010. I-T department decided in 2010 to mark July 24 as the day for the annual celebration to mark 150 years of this levy from that year onwards. Income tax was first levied as a duty in 1860 and the authority to levy that duty came into force on July 24 of that year.

45. Answer: B

Notes : Indian scientists have developed piezoelectric molecular crystals that repair their own mechanical damage without the need for any external intervention. Piezoelectric crystals are a class of materials that generate electricity when it undergoes a mechanical impact. The material may find application in high end micro chips, high precision mechanical sensors, actuators and microrobotics.

46. Answer: C

Notes : IIT Kanpur has launched the first Technology innovation hub to find the cyber security solutions for anti drones technology, intrusion detection systems, blockchain and cyber physical systems. As many as 13 startups and 25 research and development principal investigators were selected after a rigorous application process. The startup, supported by c3i hub at IIT Kanpur, will innovate to disrupt the cybersecurity space, focusing on design and development of services and products to safeguard India's critical infrastructure.

47. Answer: B

Notes : Education Minister Dharmendra Pradhan launched the Nadi ko Jano app on 25th July. The purpose of the app is to gather information about rivers across India. The initiative is a part of research for the Resurrection Foundation. The application will collect the geographical location, water level and pollution levels of the rivers. Any Indian student can upload the information in the app.

48. Answer: D

Notes : The Indore police in Madhya Pradesh has set up a 40 member women squad - Special 40 to protect minor girls from sex offenders and curb crimes against women. It will collect information for police and also be deployed in festivals, fairs and gatherings as a safety measure. The squad will teach girls about 'bad touch, good touch' in slum and ways to prevent sexual assault. The incidences of minor girls fleeing their homes and falling prey to anti social elements have come to light recently and this squad if need be will provide counseling to prevent such cases.

49. Answer: B

Notes : The 22nd anniversary of Kargil Vijay Diwas was celebrated across the country on 26 July 2021. The day marks the victory of Indian armed forces in Operation Vijay in 1999 when they evicted the infiltrators backed by the Pakistani army from high outposts in Kargil sector. India is also celebrating the golden victory of Bangladesh Liberation in 2021. President Ram Nath Kovind will be the first President to visit Kargil war memorial at Drass and participate in Kargil Vijay Diwas celebrations.

50. Answer: C

Notes : The UN General Assembly has approved its first ever resolution on vision. The vision for everyone resolution is sponsored by Bangladesh, Antigua and Ireland and co-sponsored by over a hundred countries. According to the resolution at least 2 billion people are living with vision impairment or blindness and 1.1 billion people have a vision impairment that could have been prevented or is yet to be addressed. Bangladesh UN Ambassador Rabab Fatima introduced the resolution stressing its first-ever focus on vision.

51. Answer: B

A proposal was sent to develop Sabeya airport to repair its dilapidated airstrip. The Sabeya airstrip is at Hathua in Gopalganj district is a part of Regional Connectivity Scheme-UDAN as an unserved airport. Sabeya airstrip/Hathua airfield is a military airport belt during British rule, which was last used in 1968 and need upgradation and renovation to begin the commercial flight operations.

52. Answer: A

In the panchayat elections of Bihar, for the first time both ballot papers and EVM will be used to conduct polls. Under the new plan elections in the Panchayati Raj Institution that is Gram Panchayat, Mukhya, Panchayat Samiti members and District Board members would be held through EVMs. In case of gram kachahari, which have judicial functions, the elections to the post of Sarpanch and apanch would be held through ballot papers.

52. Answer: A

53. Answer: D

55. Answer: E

The Bihar Government conferred Dr Rajendra Prasad Shikhar Samman for the year 2020-21 and a cash price of Rs 3 lakh to Hindi critic and poet Professor Vishwanath Prasad Tiwari for his valuable contribution in the field of literature.

56. Answer: A

Banka District Jail has become the first jail in India to start digital literacy campaign for prisoners under the Pradhan Mantri Gramin Digital Saksharta Abhiyan (PMGDisha).

57. Answer: B

Jehanabad has become the first district of Bihar to have 100% digital banking. In 2019 Central Government and RBI had decided to make at least one district in every state of the country with 100% digital banking service.

58. Answer: C

According to All India Survey of Higher Education report 2019-20, released by the Ministry of Education the Gross Enrolment Ratio (GER) in higher education (18 to 23 years) in Bihar was lowest among the states at 14.5% which is much lower than all India average of 27.1%. GER was highest in Sikkim at 75.8%

59. Answer: C

Floating solar Power plant is being built over the ponds in Darbhanga and Supaul under Jal-Jivan Hariyali Abhiyan Of Bihar. The capacity of Darbhanga solar Power plant is 1.6 MW and of Supaul is 0.525 MW. This for the first time that a floating solar Power plant of more than 1 MW is being built in Bihar.

60. Answer: E

MoU has been signed between NHPC and Bihar State Hydel Power Corporation to establish the Dagmara multipurpose hydel power plant across river Kosi in Supaul district. If constructed it will be the states biggest Hydel power plant with the power generation capacity of 130 MW.