SSC CHSL Tier I Test 24

Key_Points

- The Duckworth-Lewis (DLS) method is used in cricket to calculate the target score for a match interrupted by weather or other circumstances.
- It was created by two Britishers-Frank Duckworth and Tony Lewis.
- The method was formerly known as the Duckworth-Lewis method and it was adopted officially by the ICC in 1999.
- Tony Lewis, one of the men behind the **Duckworth-Lewis-Stern** method used in weather-affected limited-overs cricket matches passed away in April 2020.

눩 Additional Information

Various sports and terms related to them are mention

| Sport | Term Related | | |
|--|--|---|---|
| Hockey | Advantage, Back- stick, Bully, Cary, Centre Forward, Centre, Corner, Dribble, Flick, Free-hit, Goal Line, Blue line, Halfway Line, Hat-trick, Off-side, Red Car, Roll-in, Scoop, Short Corner, Sixteen-yard hit. | | |
| | Boundary, Bowling, Caught, Chinaman, Cover Drive, Crease, Duck, Duckworth- Lewis, Fine Leg, Follow On, Full Toss, Googly, Gully, Hat- | Golf | Bogey, Bunker, Caddie, Fairway, Fourball, Greed Holes, Links, Par, Put, Rough, Stymied, Tee. |
| trick, Hit-Wicket, In-swinger, L.B.W., Leg-break, Leg-bye, Leg Glance, late Cut, maiden over, No Ball, Over, over Pitch, Popping Crease, Run Out, Short Pitch, Silly Point, Slip, Square Leg, Straight | Football | Bend, Dribble, Dummy, Feint, Free Kick, Header, Red Card, Throwins. | |
| | Archery | Target, Bull's Eye. | |
| | Swimming | Breast Stroke, Crawl, Butterfly, Freestyle, Back Stroke. | |

| Familian | Allez, Assault, Black Card, Foil, Saber, Hilt, Jury, Lame. | | |
|-------------|---|-----------------|--|
| Fencing | | Chess | Bishop, Capture, Castling, Checkmate, En Passant, Gambit, Grand Master, King, Knight, Pawn, Queen, Rook, Stalemate, Sicilian Defence. |
| Basketball | Dunk, Frontcourt, Held Ball, Lay-Up, Pivot, Rebound. | | |
| | Baulk Line, Break, Bolting, | | Ottalerinate, Gloriati Deferioe. |
| Billiards | Cannon, Cue, Hazard, In-off, Jigger, Long, Jenny, Pot, Scratch, Screw Back, Spot Stroke, Strike. | Table Tennis | Foil, End line, Late control, Flat hit, Block stroke, Service, Penholder grip, Backspin, Centreline, Half Court, Side spin, Swing stroke, Push |
| Baseball | Diamond, Hitter, Home, Pinch, Pitcher Plate, Pullout, Short Stop, Hitter, Batter, Strike, Infield, Outfield, Base, | Tellilis | Stroke, Rally, Let, Reverse, Top Spin, Drop shot, Lob, Chopped return. |
| | Battery, Bunting, Catcher. | | |
| Volley Ball | Antennae, Attack hit, Ace, Base-line, Blocking, Doubling, Foot Fault, Heave, Holding, Jump Set, Lob Pass, Love-All, Point, Quick Smash, Scouting, Service, Spike, Tactical Ball, Volley, Windmill | | |

Important Points

· Azad Hind Fauj was an armed force formed by Indian Nationalists.

Service.

- It was formed in 1942 in Southeast Asia.
- o It is also called Indian National Army.
- · Azad Hind Fauj was founded by Mohan Sing.
- · Azad Hind Fauj or the Indian National Army (INA) was established to free India from British control.
- They tried to invade India through Imphal and Kohima in 1941 but the campaign failed.
- Subhas Chandra Bose became the Commander-in-Chief of the Indian National Army from 1943 to 1945.

Key Points

- · Lakshmi Sahgal was a member of the Azad Hind Fauj.
 - She is commonly referred to in India as "Captain Lakshmi".
 - · She was an officer of the Indian National Army and the Minister of Women's Affairs in the Azad Hind government.
 - · She was the leader of the Women's Regiment of the Indian National Army, Rani of Jhansi Regiment.
 - She was arrested by the British army in May 1945, remaining in Burma until March 1946.

房 Additional Information

- . Sarojini Naidu was the first female to become the Governor of an Indian state.
 - She was appointed as the Governor of Uttar Pradesh from 1947 to 1949.
 - o She is well known as 'Nightingale of India'.
 - She was appointed as the President of the Indian National Congress's Kanpur session in 1925.
- · Aruna Asaf Ali was an Indian political activist.
 - She hoisted the Indian National flag at the Gowalia Tank Maidan, Bombay during a Quit India Movement in 1942.
 - · She is popularly called the "Heroine of Quit India movement".
 - · She was appointed as Delhi's first Mayor.
- · Vijaya Lakshmi Pandit was an Indian politician.
 - She was the first Indian woman to hold a cabinet post in pre-independent India.
 - She was the first woman President of the United Nations General Assembly.

CONCEPT:

- . Measurement is the comparison of an unknown physical quantity to a known quantity.
- A Physical quantity is the property of a material or an object.
- There are seven basic quantities such as length, mass, time, temperature, electric current, amount of substance, and luminou intensity.

EXPLANATION:

- . When a body is displaced by using a force on it, then it is clear that the work is done on an object by that force.
- · It is a product of the force applied and the displacement.
- W = F x s
- The SI unit of work is Joule (J).
- The dimensional formula for work is ML^2T^{-2} .
- · Heat is a form of energy.
- It involves the transfer of energy from one body to another.
- . It has the same SI unit and dimension as the work.

Additional Information

- Temperature
 - It is the degree of hotness or coldness of a body.
 - The SI unit of temperature is Kelvin (K).
- Mole
 - o It is the SI unit of the fundamental quantity called the amount of substance.
- Specific heat
 - It is the quantity of heat required to raise the temperature of one gram of a substance by one degree Celsius.
 - \circ Its SI unit is $Jkg^{-1}K^{-1}$.

Key Points

- · Pt .Ravi Shankar was a renowned Sitarist who was awarded India's highest civilian honor, the Bharat Ratna, in 1999.
- · He was also an Indian composer and musician born on 7 April 1920.
- He has been honored with prestigious awards such as Padma Bhushan, Padma Vibhushan, Bharat Ratna, and Grammy Award.
- The "Sitar maestro" was the best-known proponent of the sitar in the second half of the 20th century and influenced many other musicians throughout the world including Beatles guitarist George Harrison.

Key Points

- · Ustad Amjad Ali Khan-
 - A distinguished maestro in the field of playing the sarod, Ustad Amjad Ali Khan is popularly known as the "Sarod Samrat".
 - He is the sixth generation sarod player in his family.
 - · He learned from his father Haafiz Ali Khan, who was a court musician in Gwalior up until Independence in 1947.
 - He was awarded India's second-highest civilian honor Padma Vibhushan in 2001.
 - The name sarod comes from the Persian 'sarod' meaning 'melody', alluding to its more melodic tone.

Additional Information

| Instrument | Famous instrumentalist of India | |
|------------|---|--|
| Tabla | Zakir HussainPandit Anindo ChatterjeePandit Anokhelal MishraAhmad Jan Thirakwa | |
| Violin | L. Subramaniam N. Rajam Ragini Shankar L. Athira Krishna | |
| Veena | Muthuswami DikshitarVeenai DhanammalVeena Sheshanna | |

Key Points

- · World Wetlands Day every year on the 2nd February is celebrated to promote awareness of wetlands.
- The UN General Assembly adopted Resolution 75/317 on August 30, 2021, and established February 2 as World Wetlands Day.
- Wetlands are vital ecosystems that contribute to biodiversity, climate mitigation and adaptation, freshwater availability, global economies, and more.
- The celebration of World Wetlands Day in 2022 is especially significant
- The theme for 2022 is Wetlands Action for People and Nature
 - Stressing the need of taking action to ensure the conservation and sustainable use of wetlands for human and planetary health.
- This year marks the 51st anniversary of the creation of World Wetlands Day.
- This day marks the date of the adoption of the Convention on Wetlands on 2 February 1971, in the Iranian city of Ramsar on the shores of the Caspian Sea.

Key Points

- · Dilwara Temples were built between the 11th and 13th centuries AD by the Chalukya dynasty.
- It is located just 2.5 km from Mount Abu, Rajasthan.
- There are five temples here and each temple has its own unique identity.
- · The five temples are the following:
 - Vimal Vasahi Dedicated to the first Jain Tirthankara, Shri Adinatha
 - o Luna Vasahi Dedicated to the 22nd Jain Tirthankara, Shri Neminatha.
 - o Pittalhar Dedicated to the first Jain Tirthankar, Shri Adinatha.
 - o Parshvanath Dedicated to the 23rd Jain Tirthankara, Shri Parshvanatha.
 - o Mahavir Swami Dedicated to the last Jain Tirthankara, Shri Mahaviraswami.

房 Additional Information

- · The Chausath Yogini temple
 - It is in Mitaoli village (also spelt Mitawali or Mitavali), near Padaoli in Morena district 40 kilometres (25 mi) from Gwalior. Therefore, It is not located in Baghelkhand Region.
 - According to an inscription dated 1323 CE (Vikram Samvat 1383), the temple was built by the Kachchhapaghata king Devapala (r. c. 1055 – 1075).

Magnetic Tape

- · It is a medium for magnetic storage.
- o It is made of a thin, magnetizable coating on a long, narrow strip of plastic film.
- It is Auxiliary Storage Device, which means it is an external storage device.
- o In the magnetic tape, only one side of the ribbon is used for storing data.
- · It is sequential memory which contains a thin plastic ribbon to store data and is coated by magnetic oxide.

눩 Additional Information

· Random access memory (RAM)

- · It is a type of data storage used in computers that are generally located on the motherboard.
- This type of memory is volatile and all information that was stored in RAM is lost when the computer is turned off.
- · There are two main types of RAM: Dynamic Random Access Memory (DRAM) and Static Random Access Memory (SRAM).

Laser Printer

- It is a type of computer printer that uses non-impact photocopier technology where there are no keys striking the paper.
- · Hence, it is an output device.

Light pen

- · It is a light-sensitive computer input device
- o It is used to select a displayed menu item or draw pictures on the monitor screen.
- · Hence, it is an input device.

Key Points

- In short, the best way to prevent rust is to prevent moisture from reaching the metal, or by using a material that corrodes more slowly. In short, the best way to prevent rust is to prevent moisture from reaching the metal, or by using a material that corrodes more slowly.
- · The following are the best ways to prevent rust.
 - **Galvanization: Galvanizing** coats iron or steel in zinc to protect from rust. Zinc corrodes much slower than iron or steel, so it's highly effective in slowing rust.
 - · Paint the Metal: A good paint prevents moisture from reaching the metal and slows the development of rust.
 - Tin Plating: Tin plating is the process of depositing a solderable coating of tin on the surface of a material by means of an
 electric current.

눩 Additional Information

- Crystallization or crystallization is the process by which solids are formed in which the atoms or molecules are highly organized
 into structures known as crystals.
- · Crystallization occurs in two main steps:
 - · The first is nucleation, where a crystalline phase emerges from a supercooled liquid or supersaturated solvent.
 - The second step, known as crystal growth, is the expansion of the grains to a crystalline state.

Key Points

- · Vishishtadvaita is one of the main branches of Vedanta, which itself is one of the six classic schools of Hindu philosophy.
- · It translated into 'non-dualism with differentiation'.
- Ramanujacharya was the founder of Visistadvaita Siddhanta.
- · He believed that knowledge (jnana) and devotion (bhakti) were of equal importance.
- According to Vishishtadvaita philosophy, Brahman is eternal, but also includes elements of plurality.
- The soul, or the Self, and the material world both exist only through Brahman.
- Unlike some Hindu philosophies, Vishishtadvaita doesn't see the world as simply an illusion, which would make it separate from Brahman. The material world is a part of Brahman's nature.

Key_Points

- Nikhil Kamath, the cofounder of Zerodha, has topped the 'IIFL Wealth Hurun India 40 & Under Self-Made Rich List 2022' with a net
 worth of Rs 17,500 crore.
- Bhavish Aggarwal, the founder of Ola, came in second place (Rs 11,700 crore).
- The list, released on 28 Sept 2022, includes self-made Indian entrepreneurs aged 40 & under with a fortune of Rs 1,000 crore.



Additional Information

- Hurun Report is a leading research group established in London in 1998.
- · It has presence in India, China, France, the UK, the USA, Australia, Japan, Canada and Luxembourg.
- Hurun Report is the largest compiler of the rich list globally.

Key Points

- The first National Emergency was declared in India on 26 October 1962 during the India-China war.
- National Emergency in India has been declared 3 times 1962 (China war), 1971 (Pakistan war), and 1975 (Internal Disturbances).
- National Emergency can be proclaimed by the President when he/she perceives threats to the nation from internal and external sources or from financial situations of crisis.
- · National Emergency is mentioned in Article 352.

눩 <u>Additional Information</u>

| Articles | Emergency | |
|----------------|---|--|
| Article 352 | National Emergency. Can be declared on the grounds of War, External aggression and Armed Rebellion. | |
| Article 356 | President's Rule or Constitutional Emergency. Due to the failure of Constitutional machinery in any state. | |
| Article 360 | Financial Emergency. Declared when there is a threat of financial instability in the countr | |

Key Points

- . Burrakatha is a highly dramatic form of the ballad of Andhra Pradesh.
- Burra Katha or Burrakatha is a Telugu art of oral storytelling.
- · The term Burra refers to tambura and Katha means a story.
- · It is performed in the Coastal Andhra region, Rayalaseema and Telangana.

★ Important Points

| Different names of Burra Katha | | |
|---|---------------------------------|--|
| Coastal Andhra region | Jangam katha. | |
| Rayalseema region of Andhra Pradesh | Tandana Katha or suddulu | |
| Telangana | Tamboorakatha or Saradakatha | |

Additional Information

- · Other important dances of Andhra Pradesh:
 - Kuchipudi Dance
 - Burrakatha Dance
 - o Burrakatha Dance
 - o Dappu Dance
 - Tappeta Gullu Dance
 - Lambadi Dance
 - Kolattam Dance
 - Banalu Dance

Key_Points

- Writer Dr Madhav Hada will be awarded the 32nd Bihari Puraskar for his 2015 literary criticism book 'Pachrang Chola Pahar Sakhi Ri'.
- Named after famous Hindi poet Biharilal, the award is given every year for an outstanding work published in the last 10 years by a author in Hindi or Rajasthani.
- It carries a cash prize of ₹2.5 lakh and a citation.
- Instituted by: KK Birla Foundation in 1991.

눩 Additional Information

- Books:
 - o A book titled "The Resilient Entrepreneur" written by Dhruti Shah was launched in July 2022.
 - A new book "The Boy Who Wrote a Constitution", released on the occasion of Dr BR Ambedkar's 131st birth anniversary, is written by noted playwright and author Rajesh Talwar.
 - Union Education and Skill Development Minister Dharmendra Pradhan released the book "Birsa Munda Janjatiya Nayak" on 5 April 2022.
 - $\circ \ \ \text{It has been written by Prof. Alok Chakrawal, Vice-Chancellor, Guru Ghasidas Vishwavidyalaya, Bilaspur.}$
 - A new book authored by Dr Sreeram Chaulia titled "Crunch Time: Narendra Modi's National Security Crises" was released on 31 March 2022 by the Minister of State for External Affairs, Meenakshi Lekhi.
 - On 31 March 2022, HarperCollins India published the book "The Tiger of Drass: Capt. Anuj Nayyar, 23, Kargil Hero" by Meena Nayyar and Himmat Singh Shekhawat.
 - Social activist and author, **Pranay Patil launched his first book**, "Burgundy Winters in Europe." on 29 March 2022.

Key Points

Suresh Tendulkar Committee 2009

- The people living in poverty in the country are calculated on the basis of the poverty line set by the Tendulkar Committee.
- According to the Tendulkar Committee, 21.9% of the total population of India lives below the poverty line.

| Area | Per capita Consumption | |
|-------------|-------------------------------|--|
| Rural Areas | ₹27 per day (₹816 per month) | |
| Urban Areas | ₹33 per day (₹1000 per month) | |

Thus, the correct answer is ₹27.

Key_Points

- Minister of Fisheries and Animal Husbandry Parshottam Rupala on 10 August 2022 launched a unique coffee table book titled 'Fish & Seafood -a collection of 75 gourmet recipes' in New Delhi.
- The Department of Fisheries has come up with this initiative to boost the domestic consumption of fish and seafood, along with popularizing the local fish species.

Additional Information

- Union Home and Cooperation Minister Amit Shah on 9 August 2022 launched the onboarding of cooperatives on the Government e-Marketplace (GeM) portal.
- Union Minister Sarbanand Sonowal inaugurated the Chabahar Day conference in Mumbai on 31 July 2022.
- Union Minister of Ayush Sarbananda Sonowal on 24 July 2022 launched Bal Raksha mobile app at the All India Institute of Ayurveda
 (AIIA)
- Union Minister Jitendra Singh on 18 July 2022 launched the "National Standards for Civil Service Training Institutions" (NSCSTI) in New Delhi
- Union Minister Jitendra Singh inaugurated India's first Autonomous Navigation facility, TiHAN at the IIT Hyderabad campus on 4 July 2022.
- Union Minister for Minority Affairs, Mukhtar Abbas Naqvi inaugurated the fifth Global Film Tourism Conclave (GFTC) in Mumbai on 1
 July 2022.

Key Points

- · Rongali Bihu is another name for Bohag Bihu.
- It is an ethnic tradition that is celebrated throughout northeastern India, including the state of Assam.
- · The Assamese indigenous ethnic tribes commemorate it.
- . It marks the beginning of the Assamese New Year.
- The majority of the festival's components are of indigenous heritage, including Tibetan and Tai aspects.
- · It usually occurs during the second week of April, which historically denotes the harvest season.
- It always falls on the 14th of April.
- Locally, Rongali Bihu in Assam begins with the onset of "Bohag."
- . Bohag Bihu or Rongali Bihu, Kati Bihu or Kongali Bihu, and Magh Bihu or Bhogali Bihu are the three main varieties of bihu.
- Each festival historically commemorates a distinct paddy crop agriculture cycle.
- There are seven apex periods throughout Rongali Bihu: "Sot," "Raati," "Goru," "Manuh," "Kutum," "Mela," and "Sera."

Key Points

- Vitamins A, D, E, and K are called the fat-soluble vitamins, because they are soluble in organic solvents and are absorbed and transported in a manner similar to that of fats.
- Vitamin E deficiency, which is rare and usually due to an underlying problem with digesting dietary fat rather than from a diet low in vitamin E, can cause nerve problems.

Additional Information

- Vitamin C is a water-soluble vitamin found in citrus and other fruits and vegetables. It is used to prevent and treat scurvy.
- · Vitamin D is responsible for increasing intestinal absorption of calcium, magnesium, phosphate, and many other biological effects.
- Vitamin A, also known as retinol, has several important functions, helping your body's natural defense against illness



Key_Points

- The Battle of Chausa was fought between <u>Humayun and Sher Shah Suri.</u>
- Sher Shah defeated Humayun in the battle of Chausa in 1539.
- The tomb of Sher Shah Suri is located in Sasaram, Bihar.

눩 Additional Information

Important battles in history:

| Battles | Year | Result |
|--------------------------|------|---|
| 1st battle of Panipat | 1526 | Babur defeated Ibrahim Lodi |
| Battle of Khanwa | 1527 | Babur defeated Rana Sunga |
| Battle of Chanderi | 1528 | Babur defeated Medini Rai (an associate of Rana Sanga) |
| Battle of Chanderi | 1528 | Babur defeated Medini Rai (an associate of Rana Sanga) |
| Battle of Ghaghra | 1529 | Babur defeated Mahmud Lodi and Sultan Nusrat Shah |
| Battle of Kanauj | 1540 | Sher Shah defeated Humayun for the second time |
| 2nd battle of Panipat | 1556 | Akbar defeated Hemu. |

Key points

- The permanent Settlement Act came into force in the year 1793 as part of the land reforms policy of the E.I.C.
- It was implemented by the then Governor-General Lord Cornwallis (1786-1793) in the areas of Bihar, Bengal, and Orissa.
- It is also known as the "Zamindari Settlement" or the "Sunset Settlement" as the Zamindars had to pay the revenue before the sunset on a fixed date.

눩 Additional Information

- $\bullet \quad \hbox{Zamindars were recognized as the landowners and they can transfer the land as per their wish.}\\$
- The British Government fixed 10/11th portion or 89% of the total revenue as its Income and the remaining 1/11th portion or 11% belonged to the Zamindar.
- The revenue fixed by the British Govt. was fixed for every year and was not the function of the cropping pattern for that particular season
- The base year fixed for Permanent Settlement was 1790-91.
- Lord Cornwallis is also known as the "Father of Civil Services" in India.

Key Points

- The money value of all the final goods and services produced within the country during a particular year is called Gross Domestic Product.
- . The nominal gross domestic product is the gross domestic product (GDP) evaluated at current market prices.
- . Real GDP, on the other hand, is calculated by taking a base year as a determinant.
- · Real GDP adjusts for price changes due to inflation/deflation.
- The main difference between nominal GDP and real GDP is the adjustment for inflation.

눩 Additional Information

- The average income received per person in a given area (city, region, world, etc in a given year is determined by per capita income (PCI) or average income.
- Net domestic product (NDP) is an annual measure of the economic output of a nation that is adjusted to account for depreciation.
- The National Income of any country means the complete value of the goods and services produced by any country during its financial year.

Key Points

- Daojali Hading is a neolithic site in the Dima Hasao District of Assam.
- · Here stone tools including mortars and pestles have been found.
- . It is the first stratified neolithic site discovered in Northeast India.
- Excavated in 1961-63 by a team led by M C Goswami and T C Sharma

퀅 Additional Information

- The Brahmaputra Valley has an average width of about 80 Km.
- The main river of the valley, Brahmaputra is one of the largest rivers in the world and ranks fifth concerning its average discharge.
- The river originates from the Kailash ranges of the Himalayas.
- In Bangladesh, Brahmputra is known by the name Jamuna.
- Yarlung Tsango is the Tibetan name for the upper course of Brahmputra.
- In Arunachal Pradesh, Brahmputra is known by the name Dihang.
- · The Brahmputra is also called the Red River.