Plot No.3 Third Floor Main Road Raghunathpur, Sector 22 - Noida, Uttar Pradesh Pin-201301Ph-+91-9555662244

- SSC Sollwhich on 28March -19

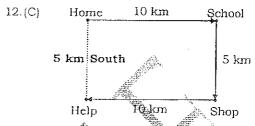
- Similarly,
 - AFKP BGLO
- 2. (B) As, $\frac{(26)^2}{2}$ = 338 Similarly, $\frac{(46)^2}{2} = 1058$
- 3. (B) An Octagon has double number of sides in comparison to a rectangle. Similarly, Hexagon has double number of sidesling comparison to a triangle.
- 5. (C) Except Cube, others are two dimensional figures.
- 6. (D) 53 is a prime number.
 7. (D) Euphasusiid Euphanism Euphanics
- Write → Proofread → Print → Publish



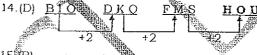
10.(B) Angle = minute $\times \frac{11}{2}$ - 30 \times hour

$$= 30 \times \frac{11}{2} - 30 \times 5 = 15^{\circ}$$

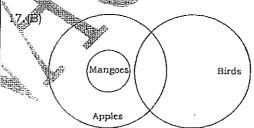
11.(B) The day = $\frac{61}{7}$ = 8 week + 5 days = 5 days Required day = Monday + 5 = Saturday



13.(D) MOUNT



- 15 (B)



I False II True

18.(D)
$$49 = 9 \times 5 + 4$$

 $60 = 8 \times 7 + 4$

$$22 = 2 \times 9 + 4$$

 $28 = 4 \times 6 + 4$

19.(C)
$$2184 = (8+4+1)^3 - (8+4+1)$$

 $2184 = (5+6+2)^3 - (5+6+2)$

- 20.(D)
- 21.(D)
- 22.(B)
- 23.(A)

- From equation (i) and (ii) P = 200 and Q = 160
- 25.(C)



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- 26. (C) A Western Disturbance is an extra tropical storm originating in the Mediterranean region that brings sudden winter rain to the northwestern parts of the Indian subcontinent. It is a non-monsoonal precipitation pattern driven by the westerlies. The moisture in these storms usually originates over the Mediterranean Sea and the Atlantic Ocean.
- 27. (A) As per recently released 2017 Brand Finance India 100 report, Tata Group is the most valuable brand in India with an estimated brand value of \$13.1 billion. Airtel has acquired 2nd position followed by LIC, Infosys, SBI and Reliance Industries Ltd. The Brand Finance is a global brand valuation and strategy consultancy firm. It advises branded organizations, or those with valuable intangible assets, on how in maximise their value through effective management of their brand and other intangible assets.

 28.(A) "The Department of Atomic Energy" (DAE)
- 28.(A) "The Department of Atomic Energy" (DAE) directly under the Brime Minister of India with the headquartered in Mumbai. The department is responsible for nuclear technology, including nuclear power and research.
- 29. (C) The Indian Councils Act 1909, commonly known as the Morley-Minto Referens was an Act of the Parliament of the United Kingdom that brought about a limited increase in the involvement of Indians in the governance of British India.
- 30. (C) India's first Aquatic Rambow Technology Park (ARTP) will be set up in Chennai, Tamil Nacu. The park will have an ultramodern exclusive facility for ornamental fish equipped with multi-species hatchery and live feed culture units. The facility is being developed by Fisheries College and Research Institute (FCRI), Ponneri in Tamil Nadu. The ARTP will have an advanced infrastructure and technical expertise to boost production of high value ornamental fish species for both indigenous and exotic type. It will also develop breeding technologies for high value indigenous ornamental fish species and ensure quality fish seeds in bulk quantities.
- 31. (D) The Madhav Chitale committee on desiltation of River Ganga has recommended a slew of measures which includes study

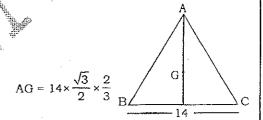
- to guide de-silting activities, sand registry for de-silting and a technical institute to conduct the sediment budget, flood routing studies and configure the necessity of the de-silting of section of the river.
- 34.(D) The visible spectrum is the portion of the electromagnetic spectrum that is visible to the human eye. Electromagnetic radiation in this range of wavelengths is called visible light of simply light. A typical human eye will respond to wavelengths from about 390 nm to 700 nm to 700 nm.
 - o Microwaves are a form of electromagnetic radiation with wavelengths ranging from one meter to one millimeter.
 - Infrared radiation, is electromagnetic radiation (EMR) with longer wavelengths than those of visible spectrum at 700 nanometers (frequency 430 THz), to 1000000 mm (800 GHz)
 - **Ultraviolet** (UV) is an electromagnetic radiation with wavelength from 10 nm to 400 nm, shorter than that of visible light but longer than X-rays.
- 87.(A) State of Bolivia is a landlocked country located in western-central South America.
- 38. (C) Decreasing the money circulation decreases the demand of goods and services. This helps in controlling the inflation. It is mainly effective for demand pull inflation.
- 39.(D) Oxytocin is a human peptide hormone and neuropeptide that is used as a medication to facilitate childbirth.
- 40. (C) The tallest tree in the world is a coast redwood (sequoia sempervirens), named Hyperion after a person in Greek mythology. The tree is no less than 115.72 m(379.7 feet) tall This enormous tree was discovered only in August 2006 in a remote part of Redwood National Park, California by naturalists Chris Atkins and Michael Taylor. Their first preliminary measurements were done with professional laser measurement equipment based on goniometry.
- 41. (C) When a running car stops suddenly, the passengers tend to lean forward due to inertia of motion. Inertia is that property of a body due to which it resists a change in its state of rest or of uniform motion.
- 42. (A) In consumer theory, substitute goods are products that a consumer perceives as similar or comparable, so that having

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more of one product makes them desire less of the other product. Formally X and Y are substitutes if, when the price of X rises, the demand for Y rises.

- 43. (D) Anshu Jamsenpa, the Indian mountaineer from Arunachal Pradesh, has set the world record by becoming the world's first woman to conquer Mount Everest twice within five days. Jamsenpa along with Nepali climber Furi Sherpa scaled the peak at 8:00 am on May 21, 2017. Earlier, she stood a top of world's highest mountain on May 16, 2017. With this, Jamsenpa has also become the first Indian woman to scale Mt Everest for the fifth time. Beside this, Indian climbers Dhankude Kishor Dattatraya and Brij Mohan Sharma also scaled Mt. Everest on May 20, 2017. Brij Mohan Sharma, popularly known as Breeze Sharma has become the first civilian from the Indian Navy to summit Mount Everest. Earlier, Chhurim Sherpa (a Nepali mountaineer) lad scaled Mt Everest twice within a week, reaching the roof of the world first on May 12, 2012, then again on May 19.
- 44 (D) The Article 20 is one of the pillars of fundamental rights guaranteed by the Constitution of India. It manly deals with protection of certain rights in case of conviction for offences. When an individual as well as corporations are accused of crimes the provisions of Article 20 saleguard their rights. The striking feature of the Article 2018 that it can't be suspended during an emergency period. Protection of Life and Personal Liberty: No person shall be deprived of his life or personal liberty except according to procedure established by law. Article 21 of the Constitution of India.
- 45. (C) The River Luni is the only natural water source that drains inside a lake in the desert. It originates in the Pushkar valley of the Aravalli Range, near Ajmer and ends in the marshy lands of Rann of Kutch in Gujarat, after travelling a distance of 530 km.
- 46. (A) Amniocentesis (also referred to as amniotic fluid test or AFT) is a medical procedure used in prenatal diagnosis of chromosomal abnormalities and fetal

- infections, and also for sex determination, in which a small amount of amniotic fluid, which contains fetal tissues, is sampled from the amniotic sac surrounding a developing fetus, and then the fetal DNA is examined for genetic abnormalities.
- 47. (A) An average adult man weighing 160 pounds contains one and a quarter gallons of blood, or 10 pints. Estimation of blood volume is based on gender, age, weight, amount of lean body mass and even altitude people who live at higher altitudes possess more blood to provide extra oxygen. Reople who weigh less generally carry less blood. Body fat percentage is a major factor in blood volume, as fat contains less blood than muscle; thus, if two people have the same weight, the person who has more fat would actually have a lower blood volume even if he appears to be larger.
- 51 (B) ATQ



$$=\frac{14}{\sqrt{3}}$$
cm

52.(A) Time taken by them to reach M

$$=\frac{850}{50+35}=10$$

Then, PM: $MQ = 35 \times 10: 50 \times 10 = 7:10$ 53.(B) $31.5 \times 3 + 25.5 \times 3 + x + x + 4 + x + 5 = 30 \times 9$ \Rightarrow 3x + 9 = 270 - 171. $\Rightarrow x = 30$

Hence, 9th number = x + 5 = 35

55.(D) $m + n = a \cos^3\theta + 3a \cos\theta \sin^2\theta + a \sin^3\theta +$ 3a cos²θ sinθ

=
$$a (\cos\theta + \sin\theta)^3$$

 $m - n = a \cos^3\theta + 3a \cos\theta \sin^2\theta - a \sin^3\theta -$ 3a cos²θ sinθ

=
$$a (\cos\theta - \sin\theta)^3$$



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Then, $(m + n)^{2/3} + (m - n)^{2/3} = [a (\cos\theta + \sin\theta)^3]^{2/3}$ + $[a(\cos\theta - \sin\theta)^3]^{2/3}$ $=a^{2/3}\left[(\cos\theta+\sin\theta)^2+(\cos\theta-\sin\theta)^2\right]$ $= a^{2/3} [2 (\cos^2\theta + \sin^2\theta)]$

56.(B)
$$P = \frac{22464}{100} \times \frac{10000}{144} \times \frac{100}{312} = ₹ 5000$$

57.(A) 4 $\overline{11}$

Hence, Required ratio = 11:7

58.(C) $x(x^2 - 3x + 3)$ = $x^3 - 3x^2 + 3x - 1 + 1$ $=(x-1)^3+1$ $=(101-1)^3+1=1000001$

59.(D) Exterior angle = 180 128

Then, Number of sides =

Required polygon is a Heptagon.

304×100) 60.(B) Profit percent 304 × 100

61.(B) Central angle

×15000000 62. (B) Difference

= ₹1875006 63.(A) Expenditure on Baskeball

12.5×12000000 = ₹ 1500000

64.(A) Average speed= $\frac{120}{120} + \frac{60}{120} = 60 \text{ km/h}$ 80 40

65.(B) Jitender : Khusiram : Anuj 55000 × 12 : 65000 × 10 : 40000 × 5 65

Anuj's share = $\frac{151000 \times 20}{151}$ = % 20000

66.(C) $A + B \rightarrow 15$ $B + C \rightarrow 12$ $C + A \rightarrow 10$

Time taken by B

67.(A) ATO, $\Rightarrow 450 + x = 900 - 2x$ ⇒ 3*x* = 450 ⇒ *x* = ₹150

Hence, C.P = ₹ 600

New S.P. =

 $\cos \theta$

pendicular

Then, $\sin\theta - \cos\theta = -$

69.(B) ATQ,

 $\frac{a^3}{b^3} = \frac{64}{125}$

and, $\frac{b}{c} = \frac{7}{6}$

 $\frac{b^3}{c^3} = \frac{343}{216}$

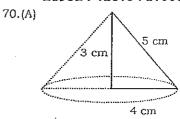
So, $a^3 : b^3 : c^3$ $\begin{array}{r}
 \underline{64} \quad 125 \\
 \underline{343} \quad 216 \\
 \underline{21952} \quad 42875 \quad 27000
\end{array}$

Alternate:-

28: 35:30

Thèn, a^3 : b^3 : c^3

21952:42875:27000





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Volume of cone = $\frac{1}{3} \times \pi \times 4 \times 4 \times 3$

 $= 16\pi \text{ cm}^3$

71.(B) Sine rule of triangle

$$= \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{C}{\sin C} = K$$

Then, a = K sin A, b = K sinB, C = KsinC

So,
$$\frac{\cos A}{K \sin A} = \frac{\cos B}{K \sin B} = \frac{\cos C}{K \sin C}$$

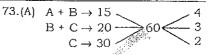
- \Rightarrow cot A = cot B = cot C
- ⇒ A = B = C

 Hence, the triangle is an equilateral triangle

72.(A)
$$\frac{(0.57)^3 + (0.43)^3}{(0.57)^3 + (0.43)^3 - (0.57)(0.43)}$$

$$= \frac{(0.57 + 0.43)[(0.57)^2 + (0.43)^2 - (0.57) + (0.43)]}{(0.57)^3 + (0.43)^3 + (0.57)(0.43)}$$

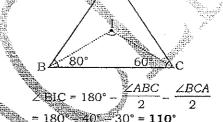
= 1
$$[\because a^3 - b^3 = (a - b)](a^2 + b^2 - ab)$$



Hence, Time taken by $A = \frac{60}{4 - (3 - 2)}$

A A

74.(D)



5.(C) Difference =
$$2 \times \frac{22}{7} \times 14 - 14 \times 2$$

= $88 - 28 = 60$ cm



Pinnacle Learning Destination
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MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Cataclysm	a momentous and violent event marked by	प्रलय
-	overwhelming upheaval and demolition	
Catacomb	an underground place where people are buried	कंब्रो का तहखाना
Catalysis	A change in the rate of a chemical reaction	उ तप्रेरण्
	induced by a catalyst	धार्मिक उपदेश देने में उपयोग किए
Catechism	a series of questions and answers used in giving	गये प्रश्नोत्तरी
	religious instruction	
Clandestine	secret	्गुप्त मुआवजा, क्षतिपूर्ति
Compensation	something that is given to make up for damage	मुञ्जूषणा, कार्याय गुप्त रखना
Conceal	to keep secret	भुषा १६५५ आकस्मिक शासन परिवर्तन
Coup d'etat	a sudden, violent and illegal seizure of power from a government	जानासून शावा गर्यक
Eliminate	completely remove or get rid of something	इंटाना, दूर करना
Emphatically	expressing something forcibly and clearly	सुस्यष्ट तथा प्रभावशाली रूप से
Fait accompli	something that has been done and cannot be	निर्विवादित कार्य
i un accompu	changed	•
Forcefully	in a strong and assertive manner	बलपुर्वक
Joie de vivre	keen or buoyant enjoyment of life	जीवन का आनन्द
Mimic	to imitate closely	नकल करना
Nutjob	a mentally unbalanced person	विक्षिप्त
Penalty	punishment for breaking a rule	जुर्माना
Predominantly	for the most part, mainly	प्रधान रूप से, मुख्यतः
Profound	too much	अत्याधिक
Pungent	having a strong, sharp taste or smell	तीक्ष्ण
Pusillanimous	lacking courage and determination	कायर, कमजोर दिलवाला
Ransom	money that is paid in order to free someone who	फिरौती
	has been captured	
Recalcitrant	obstinately defiant of authority	हठी, आज्ञा न मानने वाला
Rejection	the act of not accepting, or considering somethin	g अस्वाकरण
Revelation	a secret fact that is made known	प्रकटीकरण
Sarcophagus	a stone coffin	पत्थर की बनी हुई कब्र _~~
Scold	rebuke someone angrily	डाँटना
Scald	to burn with hot water	गरम पानी से जलाना
Sepulchre	a place of burial	কর কর
Sine qua non	something absolutely essential	अनिवार्य
Tribute	something said to show respect or gratitude	श्रद्धांजलि
Vitriolic	filled with bitter criticism or malice.	कटु आलोचना से भरा
Wanton	hard to control, undisciplined	अनियंत्रित
Wounded	injured or hurt by a wound	घायल

SSC	AUSCEL	(()	4 5 67	15/19	arch,	-(5		
1.	(D)	26. [Č)	51.	(B)		76.	(*)
2.	(B)		A)	52.	(A)		77.	(C)
3.	(B)	,	A)	53.	(13)		78.	(D)
4.	(C)		C)	54.	(13)		79.	(B)
5.	(C)	,	cj	55.	(D)		80.	(A)
6.	(D)		D)	56.	(f 3)		81.	(A)
7.	(D) (B)		c)	5 7.	{A}		82.	(C)
8.			C)	58.	(C)		83.	(C)
9.	(A)	34. (D)	59.	(D)		84.	(B)
10.	(B) (B)	35. (C)	60.	(B)		85.	(C)
11.		36. (4	A)	61.	(B)		86.	(C)
12.	(C)	37. (A)	62.	(B)		87.	(A)
13.	(D)	38. (C)	63.	(A)		88.	(B)
14.	(D)	-	D)	64.	(A)		89.	(A)
15.	(B)		C)	65.	(B)		90.	(B)
16.	(C)		C)	66.	(C)		91.	(C)
17.	(B)		A)	67.	(A)		92.	(C)
18.	(D)		D)	68.	(B)		93.	(C)
19.	(C)		D}	69.	(B)		94.	(A)
20.	(D)		A)	70.	(A)		95.	(B)
21.	(D)		A)	71.	(B)		96.	(A)
22.	(B)	-	A)	72.	(A)		97.	(D)
23.			A)	73.	(A)		98.	(C)
24.	(A) (A)		C)	74.	(D)		99.	(C)
25.	(C)	50. (C)	75.	(C)		100.	(A)

