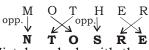


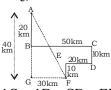
2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

SSC MOCK TEST - 100 (SOLUTION)

- 1. (D) As, KILOGRAM has 8 letters and $8^3 = 512$. Similarly, KILOMETER has 9 letters and $9^3 = 729$
- 2. (C) As, Similarly

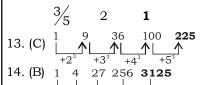


- 3. (B) As, Histology deals with the study of Tissues. Similarly, Ecology deals with the study of **Environment**
- (D) Except **UOFA**, the remaining have vowels only.
- (A) Except **Ostrich**, the remaining can fly.
- (D) Except **Subtraction**, the remaining are synonyms.
- Mother → B-7. (D) Α -Niece/ Mother Nephew +D **←**
- 8. (C) $20 = 9 \times 5 5^2$ $20 = 8 \times 7 - 6^2$ $17 = 9 \times 9 - 8^2$ $47 = 8 \times 9 - 5^2$
- 9. (C) $55 = 8 \times 9 (9+8)$ $29 = 6 \times 7 - (6 + 7)$ $20 = 8 \times 4 - (8 + 4)$
- 10. (C) $72 = 9 \times 8$ $45 = 5 \times 9$ $30 = 6 \times 5$ $48 = 8 \times 6$
- 11. (A) ATQ,



AG = AB + CD + EF = 40 kmGF = BC - ED = 50 - 20 = 30 kmPoints AGF form a right angle triangle So, AF = 50 km

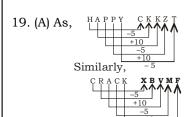
12. (D) From fig (i) and (iii)



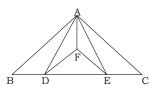
3³

5⁵ 15. (B) x + x +---+x + 20 = 78 \Rightarrow 6x + 4 (1 + 2 + 3 + 4 + 5) = 78

- \Rightarrow 6x = 78 60 = 18 $\Rightarrow x = 3 \text{ years}$
- 16. (D)
- 17 (B)
 - I. False
 - II. False
- 18. (C) Letter \rightarrow Word \rightarrow Sentence \rightarrow Paragraph



- 20. (C) ababcabcdabcde
- 21. (D) $25 \div 5 10 \times 2 + 30 = 15$
- 22. (C)



 \triangle ABC, \triangle ADB, \triangle DEF, \triangle ADF, \triangle AFE, \triangle ACE, \triangle ADE, \triangle ADC, \triangle ABE

3

- 23. (C)
- 24. (C) Obediance \rightarrow Obedience \rightarrow Obediencia \rightarrow Obedient
- 25. (D)
- 26. (C) Paddy is a tropical crop and grown where the average temperature during the growing season is between 22°C and 27°C. Abundant sunshine is essential during its four months of growth. The minimum temperature should not go below 15°C as germination cannot take place below that temperature.
 - The temperature required for wheat during growing season is around 15.5°C.



2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

The weather should be warm and moist during the early stage of growth and sunny and dry in the later stages. The average temperature of the hottest month should not exceed 20°C. A frost-free period of 100 days is usually required but some fast-ripening varieties may mature only in 90 days.

- Maize is grown in temperatures between 26°C and 27°C during the day and around 14°C during the night. But the most important factor is the 140 frost-free days. The crop is very susceptible to frost; therefore, its cultivation in temperate latitudes is limited.
- Groundnuts grow well in warm areas, below 1500m above sea level. The best temperature requirement is about 30° C.
 They do not grow below 15° C.
- 27.(B) The 43rd edition of G7 summit will be held at Taorminain Sicily, Italy. The attendees will include the leaders of the seven G7 member states as well as representatives of the European Union. The 43rd G7 summit will be the first summit for British Prime Minister Theresa May, French President Emmanuel Macron, Italian Prime Minister Paolo Gentiloni and U.S. President Donald Trump.
- 28.(C) The Kesavananda Bharathi judgment or His Holiness Kesavananda Bharati Sripadagalvru v/s State of Kerala is a landmark decision of the Supreme Court of India that outlined the Basic Structure doctrine of the Constitution.
- 29. (A) The Committee on Investor Awareness and Protection, chaired by Mr D. Swaroop from Pensions Fund Regulatory Authority of India (PFRDA), on the need for minimum standards for financial advisers and financial education. The paper states that the twin goals of regulation and making the populace financially able are essential for the healthy growth of the financial service industry.
- 30. (A)Vinay Mohan Kwatra, A 1988-batch Foreign Service officer, has been appointed as the next ambassador to France. Kwatra will succeed Mohan Kumar, who is retiring. Currently, he is a joint secretary in the Prime Minister's Office (PMO). He has also held the

- position of joint secretary in-charge of the counter-terrorism division in the MEA.
- 31. (B) Naujawan Bharat Sabha was a leftwing Indian association that sought to foment revolution against the British Raj by gathering together worker and peasant youths. It was founded by Bhagat Singh in March 1926 and was a more public face of the Hindustan Republican Association.
- 33. (C) Hygrometers is instruments used for measuring humidity. A simple form of a hygrometer is specifically known as a "psychomotor" and consists of two thermometers, one of which includes a dry bulb and the other of which includes a bulb that is kept wet to measure wet-bulb temperature.
- 36. (C) Muller's work contributed to the developing interest in Aryan culture, which often set Indo-European ('Aryan') traditions in opposition to Semitic religions. For Müller the discovery of common Indian and European ancestry was a powerful argument against racism, arguing that "an ethnologist who speaks of Aryan race, Aryan blood, Aryan eyes and hair, is as great a sinner as a linguist who speaks of a dolichocephalic dictionary or a brachycephalic grammar" and that "the blackest Hindus represent an earlier stage of Aryan speech and thought than the fairest Scandinavians".
- 37. (A) The Nile is a major north-flowing river in north-eastern Africa. It is generally regarded as the longest river in the world. Egyptian civilization and Sudanese Kingdoms have depended on the river since ancient times. Most of the population and cities of Egypt lie along those parts of the Nile valley north of Aswan, and nearly all the cultural and historical sites of Ancient Egypt are found along river banks.
 - Java is an island of Indonesia. With a population of over 141 million (the island itself) or 145 million (the administrative region) as of 2015 Census released in December 2015, Java is home to 56.7 percent of the Indonesian population and is the most populous island on Earth. The Indonesian capital city, Jakarta, is located on western Java.
- 38. (D) Article 75(3) of the Indian Constitution makes the council of ministers collectively responsible to the house of people or the Lok Sabha. This means that if the Ministry loses the confidence of the "Lok Sabha", all ministers including those who are from Rajya Sabha have to go. The entire ministry is obliged to resign. This means that ministers



2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

- fall and stand together. This is called "Rule of Collective Responsibility".
- 39. (A) In plants, photosynthesis takes place in Chloroplasts, which contain the Chlorophyll. Chloroplasts are surrounded by double membrane and contain a third inner membrane, called the Thylakoid membrane.
 - Mitochondria are known as the power houses of the cell. They are organelles that act like a digestive system which takes in nutrients, breaks them down, and creates energy rich molecules for the cell. The biochemical processes of the cell are known as cellular respiration.
 - Messenger RNA (mRNA) molecules carry the coding sequences for protein synthesis and are called transcripts; ribosomal RNA (rRNA) molecules form the core of a cell's ribosomes and transfer RNA (tRNA) molecules carry amino acids to the ribosomes during protein synthesis.
- 40. (B) In India, at present, there are 6 Zonal Council. Originally five councils were created as per the States Reorganization Act 1956 as follows: Northern Zonal Council, Central Zonal Council, Eastern Zonal Council, Southern Zonal Council, and Western Zonal Council. The North East Council was set up in 1971.
- 42. (A) National Programme of Nutritional Support to Primary Education, popularly known as the Mid-Day Meal Scheme (MDM) was started in 1995. The Midday Meal Scheme is covered by the National Food Security Act, 2013.
- 43. (C) Karan Singh (59), the Ayurveda and Co-Operative Minister of Himachal Pradesh, has recently passed away at All India Institute of Medical Sciences (AIIMS) in Delhi. He was elected from Banjar assembly constituency in Kullu district in the last assembly elections in 2012.
- 45. (A)

Rank	Country	Uranium Reserves		
		(metric tons)		
1.	Australia	1,706,100		
2.	Kazakhstan	679,300		
3.	Russian Fed	505,900		
4.	Canada	493,900		
(B) In	chemistry, the	term transition metal		

- 46. (B) In chemistry, the term transition metal (or transition element) has three possible meanings;
 - The IUPAC definition defines a transition metal as "an element whose atom has a partially filled d sub-shell, or which can give rise to cations with an incomplete d sub-shell"

- Many scientist describe a "transition metal" as any element in the d-block of the periodic table, which includes groups 3 to 12 on the periodic table. In actual practice, the f-block lanthanide and actinide series are also considered transition metals and are called "inner transition metals".
- Cotton and Wilkinson expand the brief IUPAC definition by specifying which elements are included. As well as the elements of groups 4 to 11, they add scandium and yttrium in group 3 which have a partially filled d sub shell in the metallic state. These last two elements are included even though they do not (so far) seem to possess the catalytic properties which are so characteristic of the transition metals in general. Lanthanum and actinium in Group 3 are however classified as lanthanides respectively.
- 47. (D) The hepatic portal vein is a blood vessel that carries blood from the gastrointestinal tract and spleen to the liver. This blood is rich in nutrients that have been extracted from food.
- 48. (A) Calcium is a mineral that helps you build and maintain strong bones and teeth. Good calcium intake throughout your life can help to prevent osteoporosis. When you have osteoporosis your bones are weak and thin from loss of calcium. Weak bones can break more easily than strong bones. Calcium is also used in other parts of your body. It helps your muscles work and your heart beat. Skimmed milk, ragi, Egg and fish such as sardines and canned salmon are great sources of calcium.
- 49. (B) In India, the Ombudsman is known as the Lokpal or Lokayukta. An Administrative Reforms Commission (ARC) was set up on 5 January 1966 under the Chairmanship of Shri Morarji Desai. It recommended two tier machinery: Lokpoal at the Centre (Parliamentary commissioner, as in New Zealand) and one Lokayukta each at the State level.
- 50. (C) Megasthenes was an ancient Greek historian, diplomat and Indian ethnography and explorer in the Hellenistic period, author of the work Indicia. He was born in Asia Minor and became an ambassador of Seleucus Nicator of the Seleucid dynasty possibly to Chandragupta Maurya in Pataliputra, India.



Campus

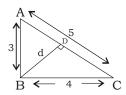
K D Campus Pvt. Ltd

2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

51. (D) A
$$\rightarrow 15$$
 $\rightarrow 20$ $\rightarrow 60$ $\rightarrow 3$ $\rightarrow 12$

$$\therefore$$
 Time taken by C = $\frac{60}{12-4-3}$ = **12 days**

52. (B) ATQ,



$$BD = \frac{AB \times BC}{AC}$$

$$\Rightarrow BD = \frac{3 \times 4}{5} = 2.4cm$$

Failed Boys =
$$\frac{28 \times 2000}{100}$$
 = 560

Failed Girls =
$$\frac{38 \times 1300}{100}$$
 = 494

Total failed candidates =
$$\frac{(560 + 494) \times 100}{3300}$$

= 31.94%

$$\sqrt{3} \cot \theta = 3 \cos \theta$$

$$\Rightarrow \sin\theta = \frac{1}{\sqrt{3}}$$

$$\Rightarrow \sin^4 \theta = \frac{1}{9}$$

Again,
$$\sin \theta = \frac{1}{\sqrt{3}}$$

Apply Pythagoras Theorem,

$$\Rightarrow \cos \theta = \frac{\sqrt{2}}{\sqrt{3}}$$

$$\Rightarrow \cos^4 \theta = \frac{4}{9}$$

$$\sin^4\theta - \cos^4\theta = \frac{1}{9} - \frac{4}{9} = \frac{-1}{3}$$

55. (A) ATQ,

$$\frac{\pi r^2 h}{2\pi r h} = \frac{12474}{1188}$$

$$\Rightarrow r = 21 \text{ cm}$$

and,
$$2 \pi rh = 1188$$

$$\Rightarrow h = 9 \text{ cm}$$

Hence,
$$h:r$$

9:21

3:7

$$x - y = \frac{15}{30} \times 60 = 30 \text{ kmph-----(i)}$$

$$x + y = \frac{30}{30} \times 60 = 60 \text{ kmph-----(ii)}$$

From equation (i) and (ii), x = 45 kmph and y = 15 kmph

$$\therefore$$
 Total time = $\frac{90}{45}$ = **2 hours**

$$x^2 + x = 9702$$

with the help of options,

$$\Rightarrow x = 98$$

$$a^4 + a^2b^2 + b^4 = a^4 + a^2b^2 + b^4 + a^2b^2 - a^2b^2$$

$$\Rightarrow$$
 147 = $a^4 + 2a^2b^2 + b^4 - a^2b^2$

$$\Rightarrow$$
 147 = $(a^2 + b^2)^2 - a^2b^2$

$$\Rightarrow$$
 147 = (a² + b² - ab) (a² + b² + ab)

Hence,
$$a^2 + b^2 + ab = \frac{147}{21} = 7$$

59. (D) ATQ,

$$121 = P \left(\frac{11}{100}\right)^2$$

60. (B) ATQ,

$$\cos\theta + \sec\theta = 2$$

$$=\cos\theta + \frac{1}{\cos\theta} = 2$$

$$= \cos^2\theta + 1 - 2\cos\theta = 0$$

then,
$$\cos \theta = 1$$

$$\Rightarrow \theta = 0^{\circ}$$

So,
$$\sin 0^{\circ} - \csc 0^{\circ} = \mathbf{0}$$

61. (A) Required difference =
$$20\%$$
 of $800 - 14\%$ of 600
= $160 - 84$ = **76**

62. (C) Required Percentage =
$$\frac{16\% \text{ of } 600}{10\% \text{ of } 800}$$

$$= \frac{96}{80} \times 100 = 120$$

63. (B) Ratio at shop B

Mango : Apple : Orange

$$\frac{40 \times 600 \times 25}{100} : \frac{60 \times 16 \times 600}{100} : \frac{25 \times 14 \times 600}{100}$$

64. (C) Required average =

$$\frac{61+67+71+73+79+83+89+97}{8} = \frac{620}{8}$$



Campus

K D Campus Pvt. Ltd 2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

65. (D) ATQ,

$$\sqrt{2100 - 731} = \sqrt{1369} = 37$$

$$\sqrt{525 + 499} = \sqrt{1024} = 32$$

$$\sqrt{756 + 688} = \sqrt{1444} = 38$$

$$\sqrt{2177 - 656} = \sqrt{1521} = 39$$

66. (D) ATQ,

$$x^3 - \frac{1}{x^3} = 140$$

$$\Rightarrow x - \frac{1}{x} = 5 - - - (i)$$
and,

$$x^2 + \frac{1}{x^2} = 62$$

$$\Rightarrow x + \frac{1}{x} = 8 - - - (ii)$$

From equation (i) and (ii),

$$x = \frac{13}{2}$$
 and $\frac{1}{x} = \frac{3}{2}$

$$x:\frac{1}{x}$$

$$\Rightarrow \frac{13}{2} : \frac{3}{2} = 13 : 3$$

67. (A) Let cost price = x

$$x \times \frac{115}{100} \times \frac{120}{100} \times \frac{350}{3 \times 100} = 80500$$

⇒ x = ₹**50000**

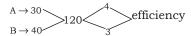
68. (B) Let the numbers = 13x and 27xATO,

$$\frac{13x + 27}{27x + 13} = \frac{3}{5}$$

$$\Rightarrow x = 6$$

Hence, the numbers are 78 and 162

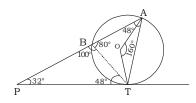
69. (C) ATQ,



Hence, Required number of days = $\frac{120 - 12 \times 3}{7}$

= 12 davs

70. (A) ATQ,



$$\angle PAT = \angle BTP = 48^{\circ}$$

(Alternate Segment Theorem)

Now, In ∆PTA

$$\angle$$
TPA = \angle TBA - \angle BTP = 80°-48° = **32**°

71. (A) Required average speed =
$$\frac{2 \times 25 \times 37}{25 + 37}$$

72. (D) Let rate (for annually) = 2rthen, rate (for half yearly) = r

$$1000 \left(1 + \frac{r}{100}\right)^3 = 1331$$

$$\Rightarrow \left(1 + \frac{r}{100}\right)^3 = \frac{1331}{1000} = \left(\frac{11}{10}\right)^3$$

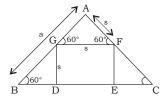
$$\Rightarrow r = 10$$

Hence, the rate = $2 \times 10 = 20\%$

73. (D) For formation of triangle Sum of two sides > third side But, 10 + 15 < 28

 \therefore This does not make any Δ .

74. (C) ATQ,



In ABDG

BG =
$$\csc 60^{\circ} \times GD$$

$$BG = \frac{2}{\sqrt{3}} s$$

and $\triangle AGF \sqcup \triangle ABC$ Now.

[∴DE | GF)

$$\Rightarrow$$
 a = BG + GA = $\frac{2}{\sqrt{3}}$ s + s

$$\Rightarrow$$
 a = $\frac{2+\sqrt{3}}{\sqrt{3}}$ s

$$\Rightarrow \frac{s}{a} = \frac{\sqrt{3}}{2 + \sqrt{3}}$$

75. (A)
$$\tan \theta + \cot \theta = \frac{\sin^2 \theta + \cos^2 \theta}{\sin \theta \cos \theta}$$

=
$$\csc\theta \sec\theta = \sqrt{1+\cot^2\theta} \sqrt{1+\tan^2\theta}$$



2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Abyss/	A deep or seemingly bottomless pit.	बहुत गहरा गड्ढ़ा
Chasm	It is similar to abyss. Abyss is though dangerous or like hell.	
Attune	make receptive or aware	अनुकूल करना
Augur	foretelling a good or bad outcome	सगुन, भविष्य बतलाना
Avalanche	a sudden great rush of snow	हिमस्खलन
Birch	a type of tree	एक प्रकार का पेड़
Blizzard	an intensely strong cold wind filled with fine snow	बर्फ का तूफान
Canoe	a pointed light narrow boat	एक प्रकार की हल्की नाव
Chivalrous	of or relating to a knight or knighthood	शौर्यवान
Crude	rough or inexpert in plan or execution, not refined	अपरिपक्व
Downpour	a sudden heavy rain	मूसलाधार बारिश
Drizzle	a fine misty rain	बूंदा बांदी
Exonerate	to clear from accusation or blame	दोषमुक्त करना
Fetter	restrain with chains	जंजीर में बाँधना
Gallant	spirited, brave	बहादूर
Gorge	a narrow passage through land	घाटी
Mauling	to handle roughly, beat, bruise	घायल करना
Menacingly	In a way that suggests the presence of danger	डरावने ढ़ग से
Meritocracy	a ruling of educated people	पढ़े-लिखे लोगो के द्वारा शासन
Monism	a view that there is only one kind of ultimate substance	अद्वैतवाद
Monomania	mental illness especially when limited in expression to one idea or area of thought	एक ही बात की धुन
Monopoly	a commodity controlled by one party	एकाधिकार
Monotheism	doctrine or belief that there is one God	एकेश्वरवाद
Obsolete	no longer in use	अप्रचलित
Oligarchy	government by the few	कुछ ही लोगों द्वारा शासित
Omit	to leave out or delete	छोड़ना
Paradox	a tenet contrary to received opinion	विरोधाभासी
Pedagogic	relating to teachers or education	शिक्षा-विज्ञान संबंधी
Phantasmagoria	an exhibition of optical effects and illusions	छाया चित्र का प्रदर्शनी
Prompt	to move to action or incite	तुरन्त
Snobbery	the behavior or attitude of people who think they are better than other people	अपने को दूसरे से अच्छा समझना, नखरे
Subtle	difficult to understand or perceive, not obvious	दूर्बोध, जाहिर नहीं
Tinker	attempt to repair or improve something in a casual or desultory way.	लापरवाही से मरम्मत करना
Torment	to cause pain or anguish to body or mind	पीडा़ देना
Trio	a group or set or three	तीन का समूह
Tritium	an isotope of hydrogen	हाइड्रोजन का आइसोटोप
Triumvirate	a group of three powerful people who share a position of authority	तीन व्यक्तियों का राज
Trivet	a three legged stand	लोहे की तिपाई



2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

SSC MOCK TEST - 100 (ANSWER KEY)

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25.	(D) (C) (B) (D) (A) (D) (C) (C) (A) (D) (C) (B) (B) (D) (B) (C) (A) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50.	(C) (B) (C) (A) (A) (B) (B) (C) (B) (C) (A) (D) (A) (B) (A) (C) (B) (A) (B) (C) (B) (A) (B) (C) (B) (A) (B) (C) (B) (B) (B) (C) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73.	(D) (B) (A) (B) (A) (D) (A) (B) (D) (B) (A) (C) (B) (C) (D) (D) (A) (B) (C) (D) (D) (A) (B) (C) (A) (B) (C) (A) (A) (B) (C) (A) (A) (B) (C) (A) (A) (B) (C) (A) (B) (C) (A) (B) (C) (A) (A) (B) (C) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 99. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.	(C) (D) (B) (A) (B) (B) (A) (A) (D) (A) (C) (A) (B) (A) (C) (D) (B) (B) (A) (C) (D)
--	--	---	--	---	--	--	---

- 76. (C) When someone causes something or somebody to do something the structure we follow is VERB + OBJECT + INFINITIVE. When 'make' is the main verb of a clause or sentence, it takes bare infinitive. So replace 'wakes' with 'wake'. Example: He made her clean the floor.
- 77. (C) Replace 'on' with 'in'.
- 79. (D) It is a famous quote written by a well known French novelist 'Honore de Balzac'.
- 81. (A) 'Lay off' is a phrasal verb which means 'to dismiss employees'.
- 89.(A) To bear with something' means 'to be patient with something.'
- 90.(C) After 'stop' if any verb is used, it comes in gerund form.
- 91.(A) 'Put in' means 'to spend (time) especially at some occupation or job'.
- 94.(D) Triumvirate' comes from 'Tri meaning 'three and 'viri' means 'Power'.

Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003

Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts. Join the group and you may also share your suggestions and experience of Sunday Mock Test.

Note:- If you face any problem regarding result or marks scored, please contact 9313111777