



Squares composed of four components each are ACMK, BDNL, CEOM, FHRP, GISQ, HJTR, KMWU, LNXV and MOYW i.e. 9 in number. Squares composed of nine components each are ADSP, BETQ, FIXU and GJYV i.e. 4 in number.

There is one square AEYU composed of sixteen components.

There are 16 + 9 + 4 + 1 = 30 squares in the given figure.



25. (D)

- 26. (B) Mariyappan Thangavelu has won India's first gold medal in the men's high jump T-42 event with jump of 1.89 metres at the 2016 Rio Paralympics. With this, Thangavelu became the first Indian high jumper to win Paralympics gold. His compatriot Varun Singh Bhati clinched the bronze medal in the same event. Thangavelu is also the 3rd Indian to win gold at Paralympics after Murlikant Petkar, who won in swimming, at Heidelberg 1972 and Devendra Jhajharia who won at Athens 2004 in javelin throw.
- 28. (D) Article 1 of the Constitution declares that India shall be a Union of States. The States and the territories thereof shall be as specified in the First Schedule and the territory of India shall comprise the territories of the States, the Union territories specified in the First Schedule and such other territories may be acquired.
- 29. (D) The great scholars in the Court of Kanishka I were Asvaghosa (the Buddhist poet), Nagarjuna (the philosopher), Samgharaksha (the chaplain), Mathara (the politician), Vasumitra (the Buddhist scholar), Charaka (the physician) and Agisala (the engineer).
- 35. (A) Preservatives prevent food from bacteria, rancidity, mould growth. They are of two types Class I : Natural

Class II : Unnatural/man-made

37. (A) Proteins are large biological molecules consisting of one or more chains of amino acids which are essential nutrients for the human body. They are one of the building blocks of body tissue and can also serve as a fuel source. As fuel, proteins contain 4 kcal per gram, just like carbohydrates and unlike liquids, which contain 9 kcal per gram.

- 38. (B) All true crabs have 10 legs that are arranged in pairs. The front most is modified into pincers and other four pairs are used for locomotion. For some swimming crabs, the hindmost pair of legs is flattened to form paddles.
- 39. (B) India's first Laser Interferometer Gravitational-Wave Observatory (LIGO) laboratory will be set up in Aundh in Hingoli district of Maharashtra. LIGO-India will bring wide opportunities in cutting edge technology for Indian industries as they will be engaged in the construction of 8 km-long beam tube at ultra- high vaccuum on a levelled terrain.It will be 3rd such laboratory in the world and first outside the United States. The existing laboratories are located in Hanford, Washington and in Livingston, Louisiana.
- 40. (B) Investment expenditure refers to the creation of new assets i.e. an addition to the stock of existing capital assets. According to Keynes, investment demand depends upon two factors -

(a) Expected rate of profit - It is also called as Marginal Efficiency of Capital (MEC).
Investment demand increases with the increase in the expected rate of profit.
(b) The rate of interest (ID): Investment

(b) The rate of interest (IR):- Investment demand decreases with the increase in the rate of interest.

- 42. (B) The book "Six Machine: I Don't Like Cricket ... I Love It" is the autobiography of Chris Gayle, a Jamaican cricketer who plays international cricket for the West Indies. The book chronicles how a shy, skinny kid from a tin-roofed shack in the back streets of Kingston became one of the most well-known stars in the global cricketing arena. The story tells of more than just sporting genius; it is a compelling narrative of Chris' struggle, of battling prejudices and still emerging unscathed with a broad smile on his face.
- 43. (B) The Odisha government has recently launched the pension scheme for construction workers, which will benefit 25 lakh beneficiaries in phased manner. As per the scheme, the construction workers above 60 years of age will get pension of Rs 300 per month while workers above 80 years of age will get pension of Rs 500 per month. The widow and disabled construction workers are also eligible to get the benefit of the pension



- scheme. This is the 3rd scheme has been launched by the state government within a month after the Mahaprayan scheme for taking bodies from hospital to the deceased's house and Biju Kanya Ratna scheme that aims to improve child sex ratio.
- 45. (C) In HTML, The Bold element specifies that the enclosed text should be displayed in boldface. The Underlined <U></ U> element specifies that the enclosed text should be displayed underlined. The Italic <I></I> element specifies that the enclosed text should be italicized.
- 46. (C) Solid carbon dioxide is used as a refrigerant (coolant).
- 48. (A) Henry Moseley gave Modern periodic table. He said physical and chemical properties of element are periodic function of Atomic number of element.
- 50. (B) A starfish lacks a centralized brain, it has a complex nervous system with a nerve ring around the mouth and a radial nerve running along the ambulacral region of each arm parallel to the radial canal.

51. (C) Given:
$$\triangle ABC \sim \triangle DEF$$

$$\Rightarrow \frac{ar(\Delta ABC)}{ar(\Delta DEF)} = \frac{BC^2}{EF^2} \Rightarrow \frac{54}{ar(\Delta DEF)} = \frac{3^2}{4^2}$$

$$\Rightarrow \operatorname{ar}(\Delta \text{DEF}) = 54 \times \frac{16}{9} = 96 \text{ cm}^2$$

52. (A) Inscribed circle radius of an equilateral

triangle(r) =
$$\frac{a}{2\sqrt{3}}$$

 \Rightarrow a = 6 cm
P = 3 × 6 = 18 cm

53. (D) Area of trapezium = $\frac{1}{2} \times$ sum of parallel sides × height

105 sq. m =
$$\frac{1}{2} \times (9 + 12) \times \text{height}$$

105 sq. m =
$$\frac{1}{2}$$
 × 21 × height

height =
$$\frac{105 \times 2}{21}$$
 = 10 m

54. (c)
$$7 \sin^2\theta + 3\cos^2\theta - 4$$

 $\Rightarrow 7 \sin^2\theta + 3(1 - \sin^2\theta) = 4$
 $\Rightarrow 7 \sin^2\theta + 3 - 3 \sin^2\theta = 4 \Rightarrow 4 \sin^2\theta + 3 = 4$
 $\Rightarrow \sin\theta = \frac{1}{2} \Rightarrow \tan\theta = \frac{1}{\sqrt{3}}$

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55. (B) By applying the formula; $(a + b)^3 = a^3 + b^3 + 3ab(a + b)$ We get, $(\sin \theta + \csc \theta)^3 = \sin^3 \theta + 3 \sin \theta \csc \theta (\sin \theta + \csc \theta)$ $(2)^3 = \sin^3 \theta + \csc^3 \theta + 3 \times 2$ $\therefore \sin^3 \theta + \csc^3 \theta = 2$

56. (B)
$$2 \text{ km/h} = \left(2 \times \frac{5}{18}\right) = \frac{5}{9} \text{ m/sec}$$

$$4 \text{ km/h} = \left(4 \times \frac{5}{18}\right) = \frac{10}{9} \text{ m/sec}$$

Let the length of the train be x metres and its speed by y m/sec.

Then,
$$\left(\frac{x}{y-\frac{5}{9}}\right) = 9$$
 and $\left(\frac{y}{y-\frac{10}{9}}\right) = 10$

$$\therefore 9y-5 = x \text{ and } 10(9y-10) = 9x$$

$$\Rightarrow 9y-x = 5 \text{ and } 90y-9x = 100$$

On solving, we get; x = 50 and $y = \frac{55}{9}$

- \therefore Length of the train is 50 m
- 57. (A) Let AB be the tree and AC be its shadow.



Let
$$\angle ACB = \theta$$

Then,
$$\frac{AC}{AB} = \sqrt{3} \Rightarrow \cot \theta = \sqrt{3}$$

 $\therefore \theta = 30^{\circ}$

58. (C) Let the principal be P and rate of interest be R%.

$$\therefore \text{ Required ratio} = \frac{\left(\frac{P \times R \times 6}{100}\right)}{\left(\frac{P \times R \times 9}{100}\right)} = \frac{6PR}{9PR} = 2:3$$
59. (A) C.P. of 1 orange = $\left(\frac{350}{100}\right) = ₹ 3.50$
S.P. of 1 orange = $\left(\frac{48}{12}\right) = ₹ 4$

$$\therefore \text{ Gain\%} = \left(\frac{0.50}{3.50} \times 100\right)\% = \frac{100}{7}\% = 14\frac{2}{7}\%$$







MEANINGS IN ALPHABETICAL ORDER

	Word	Meaning in English	Meaning in Hindi
	Acquired	obtained	अर्जित
	Adaptation	an act of making something suitable for a new use or purpose	सुधार, रूपातंरण
	Anchor	heavy object attached to a rope or chain and used to moor	लंगर
		a vessel to the sea bottom	
	Arsenal	a collection of weapons and military equipment	शस्त्रागार
	Atavistic	related to the attitudes and behaviour of the first humans	पूर्वज गुण विशेष संबंधी
	Bestial yearning	cruel desire	वहशी इच्छा
	Bondage	the state of being a slave	गुलामी, दासता
	Captivate	attract and hold the interest and attention of	आकर्षित करना
	Conspired	make secret plans to commit an unlawful or harmful act	साजिश करना
	Diffidence	modesty or shyness	संशय, झिझक
	Dilettante	doing or studying something without being serious about it	शौकीन, अल्हड़
	Fraught with	filled with	भरा हुआ
	Hastily	with excessive speed or urgency	शोघ्रतापूर्वक
	Imperative	of vital importance; crucial	अनिवार्य
	Insolvent	unable to pay debts	निर्धन
	Insurrection	a violent uprising against an authority or government	विद्रोह
	Jaded	tired, bored, or lacking enthusiasm	थका हारा
	Keep in leash	to allow very little freedom to do something	नियंत्रित करना
	Laudable	deserving praise and commendation	प्रशंसनीय
	Mutinous	refusing to obey the orders of authority	विद्रोही, बागी
	Nocturnal	occurring at night	रात्रि संबंधी
	Novice	inexperienced	अनुभवहीन
	Recluse	having a solitary life	सन्यासी, वैरागी
	Superficially	not thoroughly or deeply	सतही रूप से
	To bear good fruit	to produce desired result	वांछित परिणाम प्राप्त करना
	To carve out	to get a part of something	निर्माण करना
	Unconscious	not conscious	बेसुध
	Undo	cancel or reverse the effects or results of	पूर्ववत स्थिति में करना
	Usurer	a person who lends money at unreasonably high rates of	सूदखोर
		interest	
	Veteran	a person who has had long experience in a particular field	अभ्यस्त, दीर्घानुभवी
	Warfares	engagement in the activities involved in war or conflict	युद्ध संबंधी गतिविधियां
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SSC MOCK TEST - 65 (ANSWER KEY)

1. (B)	26. (B)	51. (C)	76. (C)
2. (C)	27. (A)	52. (A)	77. (A)
3. (B)	28. (D)	53. (D)	78. (C)
4. (C)	29. (D)	54. (C)	79. (B)
5. (B)	30. (B)	55. (B)	80. (B)
6. (D)	31. (D)	56. (B)	81. (B)
7. (D)	32. (C)	57. (A)	82. (C)
8. (B)	33. (A)	58. (C)	83. (D)
9. (C)	34. (B)	59. (A)	84. (A)
10. (B)	35. (A)	60. (A)	85. (D)
11. (A)	36. (B)	61. (D)	86. (D)
12. (D)	37. (A)	62. (D)	87. (B)
13. (A)	38. (B)	63. (C)	88. (C)
14. (A)	39. (B)	64. (D)	89. (B)
15. (D)	40. (B)	65. (B)	90. (B)
16. (D)	41. (A)	66. (C)	91. (B)
17. (C)	42. (B)	67. (A)	92. (C)
18. (A)	43. (B)	68. (A)	93. (D)
19. (B)	44. (C)	69. (C)	94. (A)
20. (A)	45. (C)	70. (C)	95. (C)
21. (D)	46. (C)	71. (D)	96. (D)
22. (D)	47. (C)	72. (C)	97. (C)
23. (B)	48. (A)	73. (D)	98. (C)
24. (D)	49. (B)	74. (B)	99. (D)
25. (D)	50. (B)	75. (B)	100. (A)
are connected by 'Neither possessive case follows the r (A) If 'it' is used in a senter after which there is verb nominative case to introduce (C) Add 'for' before 'his favou (B) 'Simple present tense' already decided arrangemen (B) When two actions happen in past, we use simple past action will be in simple futu (B) The sentence following 'a be in simple present tense. (B) If 'stands' comes for an in it can't be used in a progres (C) If since is preceded by tense, it is followed by simple	r nor', the mearest subject. nce as a subject 'to be', we use e a pronoun. r.' is used for an t of future. at the same time t tense if the 2 nd tre tense. as soon as' shall nmovable object, sive form. present perfect		
Note:- If you face any proceed by ships contact 9313111777 Note:- If your opinion dif	oblem regardin	ng result or marks scor any answer, please m	red, please tessage the mod

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