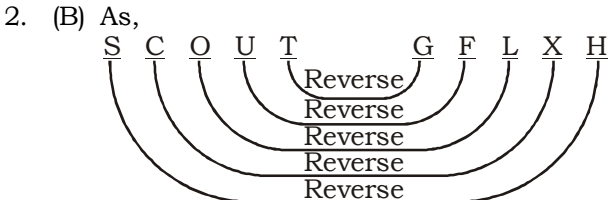
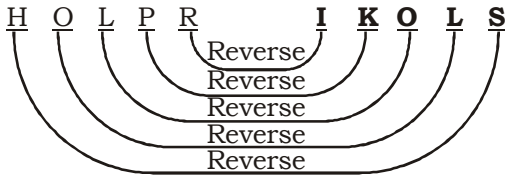


**SSC MOCK TEST – 144 (SOLUTION)**

1. (C) As, 'Do or die' is slogan of Mahatma Gandhi. Similarly, 'Satyamev Jayate' is slogan of **Madan Mohan Malviya**.



Similarly,

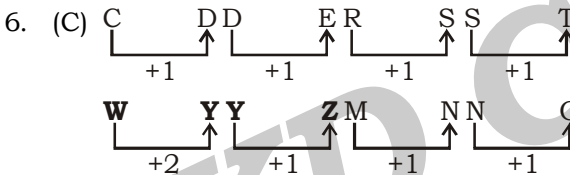


3. (A) As,  $86 \Rightarrow \frac{8 \times 6}{2} = 24$

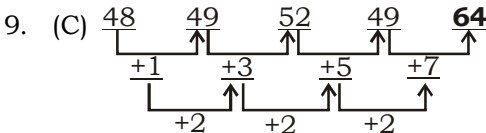
Similarly,  $92 \Rightarrow \frac{9 \times 2}{2} = 9$

4. (D) Except 'Solar energy', others are non-renewable sources.

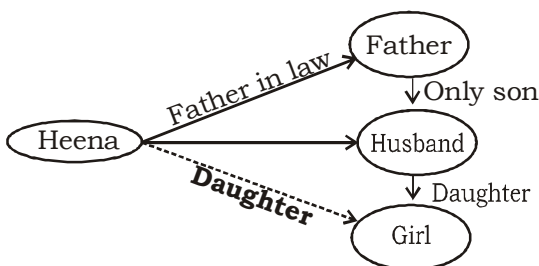
5. (D) Except '725', others are perfect square number.



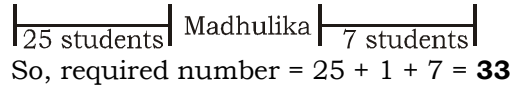
7. (C) Impertinent → Important → Impertune → Impress → Improvise



10. (C)



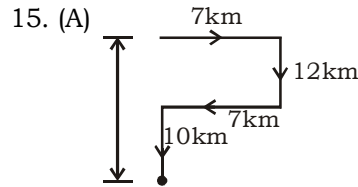
11. (B)



12. (C) **LOCKET**

13. (A) As, RAID has 4 letters  $\therefore (4)^2 = 16$   
and, DEVGN has 5 letters  $\therefore (5)^2 = 25$   
Similarly, DRASTIC has 7 Letters  $\therefore (7)^2 = 49$

14. (A)  $24 + 8 \div 12 \times 256 - 16$   
After changing the signs as per the given details,  
 $24 \times 8 + 12 - 256 \div 16 = 188$

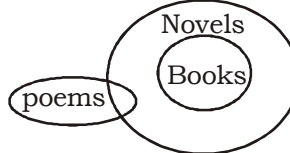


Required distance =  $12 + 10 = 22$  km and,  
and, Required direction = South

16. (C)  $(2 \times 3) + 4 = 10$   
 $(6 \times 12) + 20 = 92$   
 $(5 \times 7) + 9 = 44$

17. (B)  $2^3 + 3^3 = 35$   
 $4^3 + 2^3 = 72$   
 $3^3 + 5^3 = 152$

18. (A)



I. True  
II. False

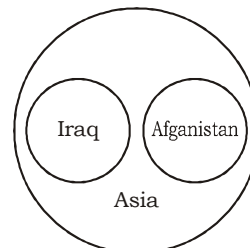
Hence, only Conclusion I follows.

19. (C) 15 triangles

20. (C) ab/abc/abcd

21. (B) 14 Feb 2006 - Tuesday  
14 Feb 2007 - Wednesday  
14 ---- 2008 - Thursday  
14 --- 2009 - **Saturday** [ $\therefore$  2008 is leap year]

22. (C)



23. (D)

24. (A)

25. (D)

26. (C) **Lead sulfide** is an inorganic compound with the formula PbS. **PbS**, also known as **galena**, is the principal ore, and most important **compound of lead**. It is a semiconducting material with **niche** uses.
27. (C) The **mangrove flora** of the world is represented by about 65 species. Mangrove, any of certain shrubs and trees that belong primarily to the **families Rhizophoraceae, Acanthaceae, Lythraceae, Combretaceae, and Arecaceae**; that grow in dense thickets or forests along tidal estuaries, in salt marshes, and on muddy coasts; and that characteristically have prop roots i.e., exposed supporting roots.
28. (C) The **benthic zone** is the ecological region at the **lowest level of a body of water** such as an ocean or a lake, including the sediment surface and some sub-surface layers. Communities of organisms that are dependent on each other and on their environment live in **aquatic ecosystems**.
29. (B) **Aridhaman** is an indigenously built **nuclear powered submarine** inducted in service of India Navy in 2017. It is the **second nuclear-powered ballistic missile** submarine being built by **India**.
31. (D) The **Hambantota Port** is a maritime port in Hambantota, **Sri Lanka**. It is also known as the **Port of Hambantota**. **China** recently purchased a 70 percent stake in a strategically located Hambantota deep water port.
32. (B) The 48th International Film Festival of India was held on 20 to 28 November 2017 in Goa.
- Best Film: Golden Peacock Award: **Beats per Minute** by Robin Campillo
  - Best **Director: Vivian Qu** for Angels Wear White
  - Best Debut Film of a **Director: Kiro Russo** for Dark Skull
  - IFFI Best **Actor Award (Male): Silver Peacock Award: Nahuel Perez Biscayart** for BPM (Beats per Minute)
  - IFFI Best **Actor Award (Female): Silver Peacock Award: Parvathy** for Take Off
33. (C) The **Gem Portal** of Government of India deals with **Public procurement**. Government e-Marketplace (**GeM**) is a very bold step of the Government with the aim to transform the way in which procurement of goods and services is done by the Government Departments, PSUs, autonomous bodies etc.
34. (B) **Ram Nath Kovind** is the **14<sup>th</sup>** and current President of India, in office since 25 July 2017. Previously he had served as the **Governor of Bihar** from 2015 to 2017 and was a Member of Parliament, Rajya Sabha from 1994 to 2006.
36. (B) A **constellation** is a **group of stars** that are considered to form imaginary outlines or meaningful patterns on the celestial sphere, typically representing animals, mythological people or gods, mythological creatures, or manufactured devices.
37. (B) The erythrocyte commonly known as a red blood cell. Oxygen is one of the substances transported with the assistance of red blood cells. The red blood cells contain a pigment called hemoglobin, each molecule of which binds four oxygen molecules.
38. (D) The **gas exchanger** in mammals is **internalized** to form lungs, as it is in most of the larger land **animals**. Gas exchange occurs in microscopic dead-end air-filled sacs called **alveoli**, where a very thin membrane separates the blood in the alveolar capillaries from the alveolar air in the sacs.
39. (B) The number of atoms present in a molecule of an element is known as its **Atomicity**. Based on atomicity molecules are **classified** into **3 categories**. They are Monoatomic Molecule Atomicity-1 Eg- Argon, helium & neon etc.
43. (D) As per the Indian Constitution under **Censorship** condition freedom of expression is taken away from citizens. In general, censorship in India, which involves the suppression of speech or other public communication, raises issues of freedom of speech, which is protected by the Indian constitution.
44. (C) **Megasthenes** was the ambassador sent to the court of **Chandragupta Maurya** by Greek ruler of West Asia, **Seleucus Nicator**. Megasthenes has written an account of India and also that of Chandragupta's reign in his book entitled "**INDIKA**".
45. (C) **Lord Dufferin** (1826-1902) was the Governor General and Viceroy of India from 1884 to 1888). **Womesh Chandra Bonnerjee** was the first president of

- Congress; the first session was attended by **72** delegates.
46. (B) Mohandas Karamchand Gandhi was an Indian activist who was the leader of the Indian independence movement against British rule. Struggle for Indian independence (1915-1947) At the request of Gopal Krishna Gokhale, conveyed to him by C. F. Andrews, Gandhi returned to India in 1915. He brought an international reputation as a leading Indian nationalist, theorist and community organizer.
49. (A) Economists divide the factors of production into four categories: land, labor, capital, and **entrepreneurship**. The **first factor** of production is **land** and **second factor** of production is **labor** but this includes any natural resource used to produce goods and services.
50. (C) **Buffer stock** is the of food grains procured by the government through **Food Corporation of India** (FCI). It is created in order to distribute food grains in deficit areas and among poorer section of society at an affordable price.
51. (A) Total curved surface area  
 $= 2\pi rh + \pi r l$   
 $= \pi r(2h + l)$   
 $= \frac{22}{7} \times 7(2 \times 5 + 25)$   
 $= 770 \text{ m}^2$   
 ATQ,  
 20% extra canvas is required.  
 $\therefore$  Total canvas required  
 $= 770 \times \frac{120}{100} = \mathbf{924 \text{ m}^2}$
52. (B) Slope (m) = 3/7, point = (0, -3) = (x<sub>1</sub>, y<sub>1</sub>)  
 Equation of line = (y - y<sub>1</sub>) = m(x - x<sub>1</sub>)  
 $\Rightarrow (y + 3) = \frac{3}{7}(x - 0)$   
 $\Rightarrow 7y + 21 = 3x$   
 $\Rightarrow \mathbf{3x - 7y = 21}$
53. (C)  $4\sqrt{625} - \sqrt[4]{625}$   
 $= 4 \times 25 - (5^4)^{1/4}$   
 $= 100 - 5 = \mathbf{95}$

54. (C) ATQ,  
 $4 - \sqrt{13}, \sqrt{10} - \sqrt{7}, \sqrt{7} - 2, \sqrt{13} - \sqrt{10}$   
 $= \sqrt{16} - \sqrt{13}, \sqrt{10} - \sqrt{7}, \sqrt{7} - \sqrt{4}, \sqrt{13} - \sqrt{10}$   
 Since, the gap between two numbers is same. So, the number whose multiplication is smallest, will be largest number.

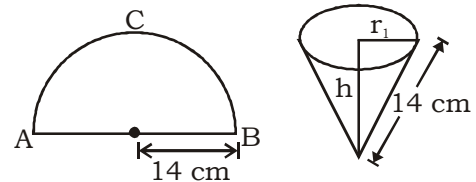
Hence required number =  $\sqrt{7} - 2$

55. (B) For a unique solution, we must have

$$\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$$

$$\Rightarrow \frac{k}{12} \neq \frac{1}{-8} \Rightarrow \mathbf{k \neq \frac{-3}{2}}$$

56. (D)



radius of semicircular sheet = slant height of cone (l) = 14 cm.  
 Length (ACB) of semicircular sheet = circumference of base of cone

$$\Rightarrow \pi r = 2\pi r_1$$

$$\Rightarrow 14 = 2r_1$$

$$\Rightarrow r_1 = 7 \text{ cm}$$

Hence, CSA of cup =  $\pi r_1 l$

$$= \frac{22}{7} \times 7 \times 14 = \mathbf{308 \text{ cm}^2}$$

57. (C)  $a + b = \frac{-a^2}{b}$

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

$$\Rightarrow ab + b^2 = -a^2$$

$$\Rightarrow a^2 + b^2 + ab = 0$$

Now,  $a^3 - b^3 = (a-b)(a^2 + b^2 + ab)$

$$\Rightarrow a^3 - b^3 = \mathbf{0}$$

58. (A)
- 
- The diagram shows three lines meeting at a central point. The lines are labeled M-18, R-30, and S-90. The angles between the lines are marked as 5, 3, and 1.

Work done by Modi in two days =  $5 \times 2 = 10$  units

Work done by them in three days =  $10 + 9 = 19$  units

Now, work done in 12 days =  $19 \times 4 = 76$  units

work done on 13<sup>th</sup> day = 5 units

work done on 14<sup>th</sup> day = 5 units

Time taken to complete remaining work

$$= \frac{90 - 86}{9} = \frac{4}{9}$$

$\therefore$  Total time taken =  $\mathbf{14 \frac{4}{9} \text{ days}}$

59. (D) Relative speed =  $48 - 36 = 12$  km/hr  
Time taken by Salman to overtake Katrina

$$= \frac{17}{12} \text{ hr.}$$

$$\therefore \text{Distance between B and C} = 36 \times \frac{17}{12} = \mathbf{51 \text{ km}}$$

60. (D) ATQ,

$$x - \frac{1}{x} = 6$$

Squaring both sides,

$$x^2 + \frac{1}{x^2} - 2 = 36$$

$$\Rightarrow x^2 + \frac{1}{x^2} = 38$$

Again, squaring both sides,

$$x^4 + \frac{1}{x^4} + 2 = (38)^2$$

$$\Rightarrow x^4 + \frac{1}{x^4} = (38)^2 - 2$$

$$\text{We have to find } x^4 + \frac{1}{x^4} + 6 = (38)^2 - 2 + 6 \\ = \mathbf{1448}$$

61. (A) ATQ,

$$\frac{\text{External angle}}{\text{Internal angle}} = \frac{2x}{3x} \text{ (let } x = \text{ constant)}$$

We know that Ext. angle + Int. angle

$$= 180^\circ$$

$$2x + 3x = 180^\circ$$

$$\Rightarrow 5x = 180^\circ$$

$$\Rightarrow x = 36^\circ$$

$$\therefore \text{Ext. angle} = 2x = 2 \times 36^\circ = 72^\circ$$

$$\therefore \text{No. of sides} = \frac{360^\circ}{\text{Ext. angle}} = \frac{360^\circ}{72^\circ} = 5$$

Now,

Sum of all angles of a regular polygon

$$= (n - 2) 180^\circ$$

$$= (5 - 2) 180^\circ$$

$$= \mathbf{540^\circ}$$

62. (D)  $18 - 15 = 3$

$$17 - 14 = 3$$

$$16 - 13 = 3$$

$$\text{LCM of } (18, 17, 16) = 2448$$

$$\therefore \text{Required result} = 2448 - 3 = \mathbf{2445}$$

63. (C) Since, this is a right angled triangle, We can assume any pythagorean triplet such as 13, 12, 5. Put these value in (c), it satisfies

64. (C) Let cost Price = ₹100

then, selling Price = ₹120

$$\text{Now, marked Price} = \frac{120 \times 100}{(100 - 25)}$$

$$= \frac{120 \times 100}{75} = ₹160$$

$$\therefore \text{Required percentage} = \frac{(160 - 100)}{100} \times 100 \\ = \mathbf{60}$$

65. (A) ATQ,

Invalid votes = 25%

$$\therefore \text{Valid votes} = (100 - 25) = 75\%$$

$$\therefore \text{Total valid votes} = 120000 \times \frac{75}{100} = 90000$$

Now, Raju got 85% of total valid votes.

$$\therefore \text{Votes of Raju} = 90000 \times \frac{85}{100} = \mathbf{76500}$$

66. (D) Net discount Ram got

$$= 12.5 + 10 - \frac{12.5 \times 10}{100} = 21.25\%$$

and, net discount Shyam got = 12.5%

$\therefore$  ATQ,

$$(21.25 - 12.5)\% = 35$$

$$\Rightarrow 8.75\% = 35$$

$$\Rightarrow 100\% = 400$$

$$\therefore \text{Marked price of Article} = \mathbf{₹ 400}$$

67. (B)  $5 \sin x + 12 \cos x + P \geq 0$

For smallest value of "P", we must find the maximum value of  $5 \sin x + 12 \cos x$

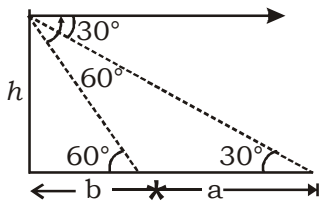
and, maximum value of  $5 \sin x + 12 \cos x$

$$= \sqrt{5^2 + 12^2} = 13$$

$$\therefore 13 + P \geq 0$$

$$\text{and, smallest value of } P = \mathbf{-13}$$

68. (B)



$$\tan 30^\circ = \frac{h}{(a+b)} \Rightarrow h = \frac{a+b}{\sqrt{3}} \dots (i)$$

$$\tan 60^\circ = \frac{h}{b} \Rightarrow h = b\sqrt{3} \dots (ii)$$

From (i) and (ii),

$$\frac{a+b}{\sqrt{3}} = b\sqrt{3}$$

$$\Rightarrow a + b = 3b \Rightarrow a = 2b \Rightarrow b = \frac{a}{2}$$

Now, the car takes 40 mins to cover the distance a.

$\therefore$  Time taken to travel distance be  $\frac{a}{2}$

$$= \frac{40}{2} = \mathbf{20 \text{ mins.}}$$

69. (A) Let the number of balls be  $3x$ ,  $7x$  and  $11x$ .

ATQ,

$$7x - 3x = 4x = \text{multiple of 6 and 8}$$

$$\text{LCM of (6,8)} = 24$$

$\therefore$  we can say,  $4x = 24$

$$\Rightarrow x = 6$$

Hence, the number of balls =  $3x + 7x + 11x$

$$= 21x = 21 \times 6 = \mathbf{126}$$

70. (C) ATQ,  $f(x) = x^4 - ax^3 + bx^2 - cx + 8$

$$f(-1) = 3$$

$$\therefore 1 + a + b + c + 8 = 3$$

$$\Rightarrow a + b + c = -6 \dots (i)$$

$$f(1) = 1$$

$$1 - a + b - c + 8 = 1$$

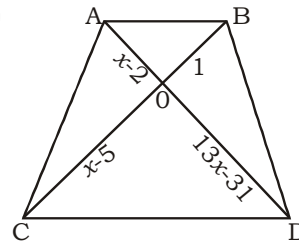
$$\Rightarrow -a + b - c = -8 \dots (ii)$$

Adding equation (i) & (ii),

$$2b = -14$$

$$\Rightarrow b = \frac{-14}{2} = \mathbf{-7}$$

71. (C)



ATQ,

$AB \parallel CD$

$\therefore \Delta AOB \sim \Delta COD$

$$\therefore \frac{AO}{OD} = \frac{BO}{OC}$$

$$\Rightarrow \frac{(x-2)}{(13x-31)} = \frac{1}{(x+5)}$$

$$\Rightarrow (x-2)(x+5) = (13x-31)$$

By solving  $x = \mathbf{3,7}$

72. (B) Expenditure on house

$$= \frac{175000}{35} \times 15 = \mathbf{75000}$$

73. (D) Required Angle =  $\frac{(35-18)}{100} \times 360^\circ = \mathbf{61.2^\circ}$

74. (B) Required percentage =  $\frac{10}{35} \times 100 = \mathbf{28.6}$

75. (B) Required percentage =  $\frac{(36-10)}{10} \times 100 = \mathbf{260}$

**1000+**  
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**MEANINGS IN ALPHABETICAL ORDER**

<b>Word</b>	<b>Meaning in English</b>	<b>Meaning in Hindi</b>
Extol	to praise (someone or something) highly	प्रशंसा करना
Contribute	to give (something such as money goods or time) to help a person.	सहयोग देना/चंदा देना
Ruck	ordinary people or things, that you consider boring	जन साधारण
Straighten	unbend (to make (something) straight or to become straight	सीधा करना
Blitz	a military attack in which many bombs are dropped from airplanes.	आक्रमण होना
Penury	the state of being very poor: extreme poverty	गरीबी
Dearth	scarcity (condition of not having enough of something	कमी
Adversity	misfortune (A difficult condition/situation)	कठिनाई
Debonair	(of a man) dressing and acting in an appealing and sophisticated way.	अनुग्रहपूर्ण
Dynamic	relating to energy, motion or physical force	ऊर्जा/गतिशील
Fugitive	A person who is running away to avoid being captured,	भगोड़ा
Cling	to hold onto something or someone very tightly	कसकर लिपट जाना
Dung	solid waste from an animal	गोबर/लीद
Reconnaissance	military activity in which soldiers, airplanes, are sent to find out information about an enemy.	टोह
Chauffeur	a person whose job is to drive people around in a car	मोटर चालक
Ambition	a desire to be successful, powerful or famous.	अभिलाषा/महत्वाकांक्षा
Resolute	having a lot of determination	दृढ
Adopt	to take a child of other parents legally as your own child.	गोद लेना
Precipitous	rash (done to quickly and with out enough thought or planning	उतावली में किया गया हो
Steep	to put (something) in a liquid for a period of time	भिगोना
Rash	doing something quickly and without thinking carefully	अविवेकपूर्ण
Antipathy	a strong feeling of dislike	वैरभाव

**SSC MOCK TEST - 144 (ANSWER KEY)**

- |         |         |         |          |
|---------|---------|---------|----------|
| 1. (C)  | 26. (C) | 51. (A) | 76. (B)  |
| 2. (B)  | 27. (C) | 52. (B) | 77. (A)  |
| 3. (A)  | 28. (C) | 53. (C) | 78. (D)  |
| 4. (D)  | 29. (B) | 54. (C) | 79. (A)  |
| 5. (D)  | 30. (A) | 55. (B) | 80. (A)  |
| 6. (C)  | 31. (D) | 56. (D) | 81. (B)  |
| 7. (C)  | 32. (B) | 57. (C) | 82. (C)  |
| 8. (B)  | 33. (C) | 58. (A) | 83. (C)  |
| 9. (C)  | 34. (B) | 59. (D) | 84. (C)  |
| 10. (C) | 35. (D) | 60. (D) | 85. (B)  |
| 11. (B) | 36. (B) | 61. (A) | 86. (B)  |
| 12. (C) | 37. (B) | 62. (D) | 87. (A)  |
| 13. (A) | 38. (D) | 63. (C) | 88. (B)  |
| 14. (A) | 39. (B) | 64. (C) | 89. (B)  |
| 15. (A) | 40. (A) | 65. (A) | 90. (A)  |
| 16. (C) | 41. (D) | 66. (D) | 91. (C)  |
| 17. (B) | 42. (B) | 67. (B) | 92. (C)  |
| 18. (A) | 43. (D) | 68. (B) | 93. (A)  |
| 19. (C) | 44. (C) | 69. (A) | 94. (A)  |
| 20. (C) | 45. (C) | 70. (C) | 95. (C)  |
| 21. (B) | 46. (B) | 71. (C) | 96. (C)  |
| 22. (C) | 47. (A) | 72. (B) | 97. (D)  |
| 23. (D) | 48. (A) | 73. (D) | 98. (A)  |
| 24. (A) | 49. (A) | 74. (B) | 99. (D)  |
| 25. (D) | 50. (C) | 75. (B) | 100. (D) |

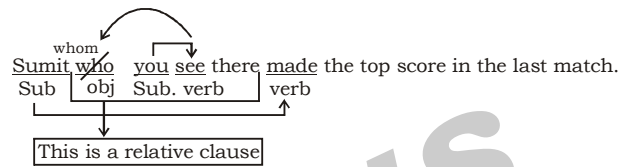
76. (B) Replace is with was. The ancestors in the sentence indicate that sentence should be in past tense.

look at the main part of sentence-

- The sun is venerated as god by our ancestors (✗)
- The sun was venerated as god by our ancestors (✓)

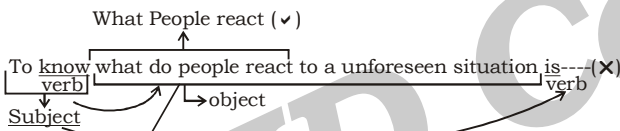
Here, (question (1) do not indicate a routine Action because of 'by our ancestors')

77. (A) Change 'who' into 'whom' because- look at the sentence-

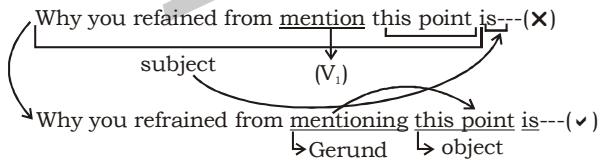


The objective case of 'who' must come after 'see' because 'see' is a transitive verb

86. (B) look at the sentence,

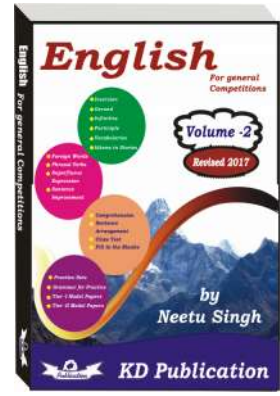
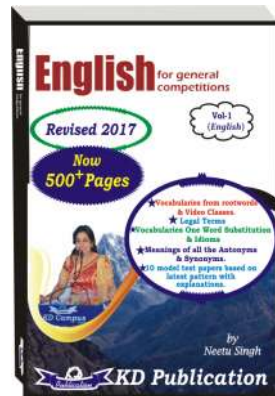


87. (A) look at the sentence,



Correct option is 'A', usually we use (V<sub>1</sub> + ing) after a preposition and 'from' is a preposition here.

Hence 'refrained from mentioning' is the a propriate option.



**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**