

SSC MOCK TEST – 205 (SOLUTION)

1. (B) Death leads to sorrow and birth leads to happiness.

2. (D) $(2 \times 2 \times 3)^2 + 223 = 367$
 $(1 \times 7 \times 2)^2 + 172 = 368$

3. (B)

X	Y	Z	Q	R	S
↓	↓	↓	↓	↓	↓
C	B	A	J	I	H

 Reverse letter

4. (B)

N	P	R	T	V	W
↑	↑	↑	↑	↑	↑
+2	+2		+2	+1	

F	H	J	K	M	O
↑	↑	↑	↑	↑	↑
+2	+2		+2	+2	

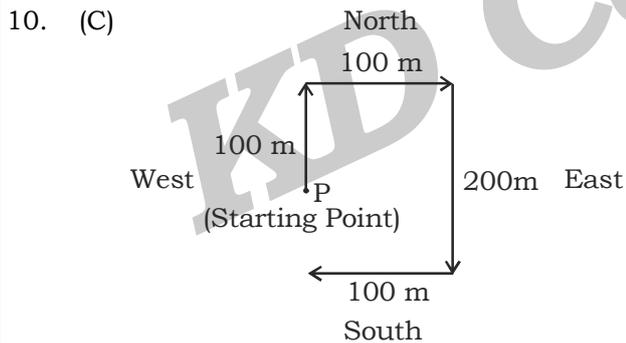
5. (A) Rest are prime numbers

6. (C) Snake is a reptile

7. (D) 1. Ale
 2. Align
 5. Alpine
 3. Amended
 4. Anatomy

8. (D) JKLM/JKLM/JKLM

9. (D) abbcd / abbcd



In south direction 100 metres from the starting point.

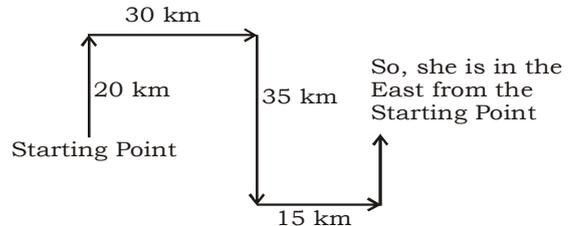
11. (A)
 A C169 B D576 C E1225 D F2116
 $(13)^2$ $(24)^2$ $(35)^2$ $(46)^2$

12. (C) $2 \times 2 + 1 = 5$ $17 \times 4 + 3 = 71$
 $5 \times 3 + 2 = 17$ $71 \times 5 + 4 = 359$

13. (B)

D	K	F	N	H	Q	J	T
↑	↑	↑	↑	↑	↑	↑	↑
+2	+2	+2	+2	+2	+2	+2	+2
↑	↑	↑	↑	↑	↑	↑	↑
+3	+3	+3	+3	+3	+3	+3	+3

14. (C)

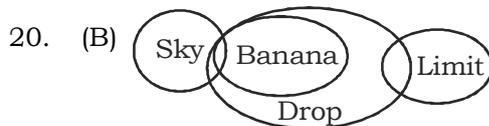
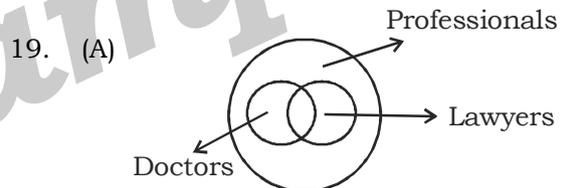


15. (D)

16. (A) $12 \times 8 + 4 = 100$
 $8 \times 4 + 12 = 44$
 $4 \times 12 + 8 = 56$

17. (A) $[(20 + 2) - 1] = 21$
 $[(23 + 1) - 2] = 22$
 $[(43 + 2) - 5] = 40$

18. (A) $2^2 + 1 = 5$
 $3^2 + 1 = 10$
 $5^2 + 1 = 26$
 $7^2 + 1 = 50$
 $11^2 + 1 = 122$



- I. False
 II. True
 III. False

21. (B)

22. (A)

23. (C)

24. (D)

25. (C) **S P E A K**
21, 40, 44, 57, 99

26. (B) Serena Williams was the Runner-up Novak Djokovic won the Men's 2019 Winisleden Chanpionship by defeating Roger Federer.

- | | |
|--|--|
| <p>28. (C) C.M. of Meghalaya - Conrad K. Sangma
Governor of Meghalaya - Tathagata Roy</p> <p>29. (C) Best Short Film Award - Na Bole Wo Haram
Special Jury Award - Walking With the
for Direction and Wind
Story</p> <p>30. (B) National Green tribunal (NGT) is a
statutory body established under the
National Green Tribunal Act, 2010.
Justice Adarsh Kumar Goel is the acting
Chairperson of the Tribunal.
New Delhi is the principal place of sitting
of the Tribunal and Bhopal, Pune,
Kolkata and Chennai are the other places
of sitting of the tribunal.</p> <p>31. (B) Bhupesh Baghel is the C.M of
Chhattisgarh.</p> <p>32. (C) International Court of Justice was
established in June 1945 and began its
work in April 1946.
It is located at the Hague, Netherlands.</p> <p>34. (C) Commission Criteria Suggested
for States
Reorganisation</p> <p>1. Dhar commission
(June 1948)</p> <ul style="list-style-type: none"> • Geographical contiguity • Financial self reliance • Administrative viability • Potential for development <p>2. JVP Committee</p> <ul style="list-style-type: none"> • security, unity & and economic prosperity <p>3. Fazl Ali commission
(Dec 1953)</p> <ul style="list-style-type: none"> • Linguistic and cultural homogeneity. • Unity and security of nation • Financial, Economic and administrative considerations • welfare of people <p>The government of India accepted the
recommendations of FAC and State
Reorganisation Act of 1956 was passed.
It led to the formation of 14 states and 6
UTs on 1st November 1956.</p> <p>35. (A) State Classical dance
Tamil Nadu Bharatnatyam</p> | <p>Andhra Pradesh Kuchipudi
Assam Bihu</p> <p>36. (D) Name Established Important facts</p> <p>1. Anamudi 2003 Under
Sholo consideration
National of UNESCO's
Park(Kerala) World Heritage
Committee for
selection as a
World Heritage
Site.</p> <p>2. Dachigam 1981 Only area
National where Kashmir
Park (J&K) Stag is found.</p> <p>3. Hemis 1981 Largest
National National Park
Park(J&K) in India.</p> <p>4. Jim Corbett 1936 Established as
National Park Hailey National
(Uttarakhand) Park.</p> <p>38. (A) A landlocked country is a sovereign state
entirely enclosed by land or whose only
coastlines lie on closed seas. There are
currently 49 land locked countries.</p> <p>42. (A) Book Author</p> <p>My Unforgettable - Mamata Benerjee
Memories</p> <p>My Music My Life - Pt. Ravi Shankar
Flood of Fire - Amitav Ghosh</p> <p>43. (A) Date Event</p> <p>15 October International Day of
Rural Women</p> <p>14 November World Diabetes Day</p> <p>10 December Human Rights Day</p> <p>46. (D) Country National Game</p> <p>Cuba Baseball</p> <p>Lituania Basketball</p> <p>America Baseball</p> <p>50. (D) Apollo 11 was the first crewed manned
mission to moon</p> <p>51. (B) $x + \frac{1}{x} = 4$</p> <p>$\Rightarrow x^2 + 1 = 4x$</p> <p>$\Rightarrow x^2 - 4x = -1$</p> <p>$\Rightarrow x^2 - 4x + 5 = -1 + 5$</p> <p>$\Rightarrow (x^2 - 4x + 5) = 4$</p> <p>$\Rightarrow \frac{4}{x^2 - 4x + 5} = 1$</p> |
|--|--|

52. (D) $\sin \theta + 3\cos \theta = 1$
 Squaring both side,
 $\Rightarrow \sin^2 \theta + 9\cos^2 \theta + 6\sin \theta \cos \theta = 1$
 $\Rightarrow 1 - \cos^2 \theta + 9(1 - \sin^2 \theta) + 6\sin \theta \cos \theta = 1$
 $\Rightarrow -\cos^2 \theta - 9\sin^2 \theta + 6\sin \theta \cos \theta = -9$
 $\Rightarrow (3\sin \theta - \cos \theta)^2 = 9$
 $\Rightarrow 3\sin \theta - \cos \theta = 3$

53. (B) ATQ.,

$$\frac{\text{Area of } \Delta_1}{\text{Area of } \Delta_2} = \frac{\frac{1}{2}a_1.h_1}{\frac{1}{2}a_2.h_2}$$

$$\Rightarrow \frac{3}{2} = \frac{\frac{1}{2}a_1.4}{\frac{1}{2}a_2.5} \Rightarrow \frac{a_1}{a_2} = \frac{15}{8}$$

 $\Rightarrow a_1 : a_2 = 15 : 8$

54. (C) We know that
 Slope of line (m_1) = $\frac{y_2 - y_1}{x_2 - x_1}$

$$\Rightarrow \left(\frac{-5 - (-2)}{-3 - 3} = \frac{1}{2} \right)$$

 When slope of line is perpendicular,
 $m_1 \times m_2 = -1$
 $\Rightarrow \frac{1}{2} \times m_2 = -1$
 $\Rightarrow m_2 = -2$

55. (C) Let prices of rice, sugar and oil
 Increase \rightarrow

50	40	30	Total
↓ 120%	↓ 130%	↓ 150%	→ 120 units
60	52	45	→ 157 units

} 37 units

Total increase percentage in expenses,
 $= \frac{37}{120} \times 100 = 30\frac{5}{6}\%$

56. (C) ATQ.,
 C. P \rightarrow 12 units
 S. P \rightarrow 15 units
 Profit % = $\frac{3 \text{ units}}{12 \text{ units}} \times 100 = 25\%$

57. (A) $6 = 3 \times 2$
 In 133!, the 2's will be in abundance hence we need to count the number of 3's in 133!. Number of 3's in 133!
 $=$ maximum integral value of ,

$$\left[\left(\frac{133}{3} \right) + \left(\frac{133}{9} \right) + \left(\frac{133}{27} \right) + \left(\frac{133}{81} \right) + \dots \right]$$

$\Rightarrow 44 + 14 + 4 + 1 = 63$

58. (A) $V = 19404 \text{ cm}^3$

$$\frac{2}{3}\pi r^3 = 19404$$

$$r^3 = \frac{19404 \times 7 \times 3}{2 \times 22} = 441 \times 21$$

 $r = 21$
 Hence, Total surface area (TSA) = $3\pi r^2$
 $\Rightarrow 3 \times \frac{22}{7} \times 21^2 = 4158 \text{ cm}^2$

59. (C) A. T. Q,
 Let $\frac{a+b}{9} = \frac{b+c}{10} = \frac{c+a}{11} = k$
 $a+b = 9k, b+c = 10k, c+a = 11k$
 $\Rightarrow a+b+c = 15k$
 Then,
 $a = 5k, b = 4k, c = 6k$

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc} = \frac{27k^2}{48k^2} = \frac{9}{16}$$

$$\cos B = \frac{a^2 + c^2 - b^2}{2ac} = \frac{45k^2}{60k^2} = \frac{9}{12}$$

$$\cos C = \frac{a^2 + b^2 - c^2}{2ab} = \frac{5k^2}{40k^2} = \frac{1}{8}$$

$$\cos A : \cos B : \cos C = \frac{9}{16} : \frac{9}{12} : \frac{1}{8}$$

 $= 27 : 36 : 6$

60. (D) Let C.P is

100 units	
	5% Profit
10% loss	S.P 105 units
	S.P 90 units

90 units \rightarrow ₹ 72
 105 units \rightarrow ₹ 84

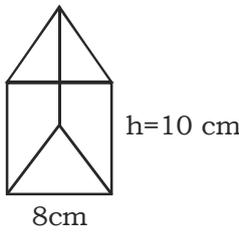
61. (D) $(1 \times 2) \times 3$
 A. T. Q,
 $= (1 + 8 \times 2) + 8 \times 3$
 $= 17 + 24 = 41$
62. (B) Given,
 $16w \times 12 = 12m \times 8$
- $$\Rightarrow \frac{w}{m} = \frac{1}{2}$$
- \therefore Total work = $16 \times 1 \times 12 = 192$ units
 Work done by 16 men in 3 days,
 $= 16 \times 2 \times 3 = 96$ units
 \therefore Remaining work = $192 - 96 = 96$ units
 Number of days required to complete remaining work = $\frac{96}{6m + 4w}$
- $$= \frac{96}{6 \times 2 + 4 \times 1}$$
- $$= 6 \text{ days.}$$

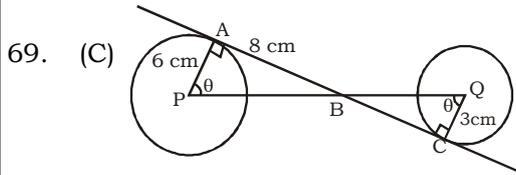
63. (C) $4 - \frac{5}{1 + \frac{1}{3 + \frac{1}{2 + \frac{1}{4}}}} = 4 - \frac{5}{1 + \frac{1}{3 + \frac{4}{9}}}$
- $$= 4 - \frac{5 \times 31}{40} \Rightarrow \frac{160 - 155}{40} = \frac{5}{40} = \frac{1}{8}$$
- $\Rightarrow \frac{1}{8}$ th part of journey cover in = 10 minutes
 $\therefore \frac{3}{5}$ th part of journey covers in = $10 \times 8 \times \frac{3}{5}$
 $= 48$ minutes

64. (A) Let a person invests ₹ x at 4% and average rate of interest be $r\%$
- $$\therefore \frac{x \times 4}{100} = \frac{(45000 - x)}{100} \times 6$$
- $\Rightarrow x = ₹ 27000$
 2nd part = ₹ 18000
 Interest of 1st part in one year
 $= \frac{27000 \times 4}{100} = ₹ 1080$
 Similarly, interest of 2nd part = ₹ 1080
 Total interest = ₹ 2160
- $$\therefore \frac{45000 \times r}{100} = 2160$$

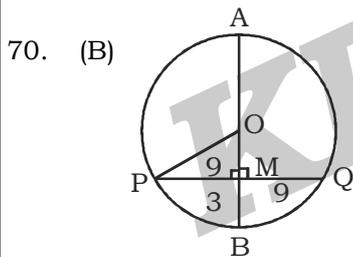
- $r = 4.8 \%$
65. (C) $x^2 - x - 1 = 0$
 A.T.Q, roots α, β
 $\alpha + \beta = +1, \Rightarrow \alpha\beta = -1$
- $$\therefore \frac{\alpha^2 + \beta^2}{(\alpha^2 - \beta^2)(\alpha - \beta)} = \frac{(\alpha + \beta)^2 - 2\alpha\beta}{(\alpha + \beta)(\alpha - \beta)^2}$$
- $$= \frac{(\alpha + \beta)^2 - 2\alpha\beta}{\alpha^3 + \beta^3 - \alpha\beta^2 - \beta\alpha^2} = \frac{(\alpha + \beta)^2 - 2\alpha\beta}{(\alpha + \beta)^3 - \alpha\beta(\alpha + \beta)}$$
- $$= \frac{(\alpha + \beta)^2 - 2\alpha\beta}{(\alpha + \beta)^3 - 4\alpha\beta(\alpha + \beta)} = \frac{1^3 - 2(-1)}{1^3 - 4(-1) \times 1} = \frac{3}{5}$$
66. (C) Volume of prism = (Area of base) \times height
 $= 6 \times \frac{\sqrt{3}}{4} (2)^2 \times 2$
 $= 6 \times \frac{\sqrt{3}}{4} 4 \times 2 = 12\sqrt{3} \text{ m}^3$

67. (D) 1 day work of Rajni = $\frac{1}{x}$
 3 days work of Rajni = $\frac{3}{x}$
 4 days work of Geetika = $\frac{4}{x+4}$
 A. T. Q,
- $$\frac{\frac{3}{x}}{x+4} = \frac{15}{16} \Rightarrow \frac{x+4}{x} = \frac{5}{4}$$
- $$4x + 16 = 5x, \Rightarrow x = 16$$

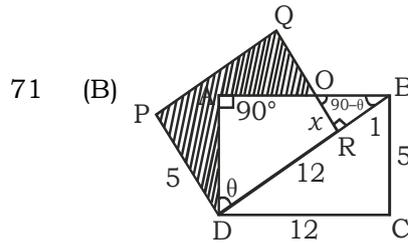
68. (C)
- 
- Volume of the prism = Area of base \times height
 $= \frac{\sqrt{3}}{4} (8)^2 \times 10 \Rightarrow \frac{\sqrt{3}}{4} 64 \times 10$
 $= 160\sqrt{3} \text{ cubic cm}$



A. T. Q,
 $\Rightarrow AP = 6 \text{ cm}$ (Radius₁)
 $\Rightarrow QC = 3 \text{ cm}$ (Radius₂)
 As, we know any line draw from centre to the tangent be perpendicular
 So, $\angle PAB = \angle QCB = 90^\circ$
 $\Rightarrow \angle APB = \angle CQB = \theta$ (same alternative-angle)
 So, $\triangle APB \sim \triangle CQB$
 $\Rightarrow \frac{AP}{CQ} = \frac{AB}{CB}$
 $\Rightarrow \frac{6}{3} = \frac{8}{CB}$
 $\Rightarrow CB = 4 \text{ cm}$
 In right angled triangle,
 $\Rightarrow (PB)^2 = (PA)^2 + (AB)^2$
 $\Rightarrow (PB)^2 = 6^2 + 8^2$
 $\Rightarrow (PB) = 10 \text{ cm}$
 Again right angled triangle $\triangle CQB$,
 $\Rightarrow BQ^2 = BC^2 + CQ^2$
 $\Rightarrow BQ^2 = 4^2 + 3^2$
 $\Rightarrow BQ = 5 \text{ cm}$
 Therefore, $PQ = PB + BQ$
 $\Rightarrow 10 + 5 = 15 \text{ cm}$



ATQ.,
 Let $OA = x = OP$
 $AB = 2x$
 $OM = x - 3$
 In $\triangle OMP$,
 $x^2 = (9)^2 + (x - 3)^2$
 $x^2 = 81 + x^2 + 9 - 6x$
 $90 = 6x$
 $x = 15$
 $\therefore AB = 2 \times 15 = 30 \text{ cm}$



So, $\triangle ADB \sim \triangle ORB$

$$\frac{12}{1} = \frac{5}{x} \Rightarrow x = \frac{5}{12}$$

$$\text{Area of } \triangle ORB = \frac{1}{2} \times 1 \times \frac{5}{12} = \frac{5}{24}$$

$$\text{Area of shaded region} = 60 - 30 + \frac{5}{24} = \frac{725}{24}$$

72. (A) Number of students who enrolled in N.C.C activity = 15% of 12000

$$= 1200 \times \frac{15}{100} = 180$$

73. (C) ATQ.,
 $= (13 + 11)\% \text{ of } 1200$

$$= \frac{24}{100} \times 1200 = 288$$

74. (D) Required percentage = $\frac{22}{21} \times 100$
 $= 104.76\%$

75. (A) Required ratio = $\frac{18 + 21}{13} = \frac{39}{13} = \frac{3}{1}$

SSC

Detecting Errors

Prepared by Neetu Singh

1000⁺

(Previous Year Questions)
(1997 Onwards)

Revised & Updated



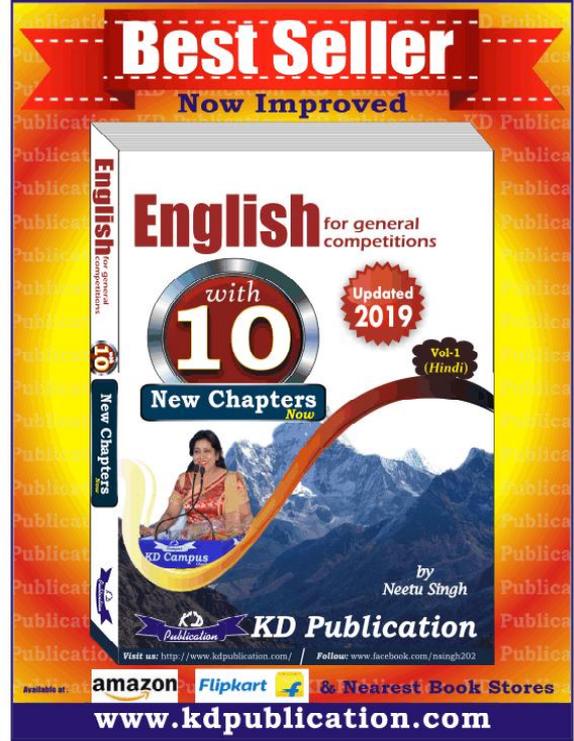
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MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Ambiguous	able to be understood in more than one way: having more than one possible meaning	अनेकार्थी
Anarchist	a person who rebels against any authority, established order, or ruling power	अराजकतावादी
Applause	a show of approval or appreciation at a play, speech, sporting event, etc., in which people strike their hands together over and over	प्रशंसा करना
Arbitrator	a person who is chosen to settle a disagreement between people or groups	मध्यस्थ
Archipelago	a group of islands	द्विप समूह
Clumsy	moving or doing things in a very awkward way and tending to drop or break things	बेदगा
Conclusive	showing that something is certainly true	निर्णायक
Courteous	marked by respect for and consideration of others	शिष्टाचार
Decisive	able to make choices quickly and confidently	सोचा-समझा, स्पष्ट
Ignominious	causing disgrace or shame	घृणित
Innocuous	causing no injury	हानि रहित
Jeer	to shout insulting words at someone : to laugh at or criticize someone in a loud and angry way	हँसी उड़ाना
Ominous	suggesting that something bad is going to happen in the future	अशुभ
Pompous	having or showing an attitude of someone who thinks he or she is better than other people	दिखावा करने वाला
Rant	to talk loudly and in a way that shows anger, to complain in a way that is unreasonable	निंदा करना
Reconciliation	the act of causing two people or groups to become friendly again after an argument or disagreement	मेल-मिलाप
Regression	a trend or shift toward a lower, less severe or less perfect state	पतन
Relish	enjoyment of or delight in something	आनंद
Retaliation	to do something bad to someone who has hurt you or treated you badly	प्रतिशोध
Retribution	punishment for doing something wrong	बदला
Retrospection	the act or process or an instance of surveying the past	भूतकाल का अवलोकन
Revert	to come or go back	वापस आना
Revive	to return to consciousness or life, become active or flourishing again	फिर से जीवित होना या होश में आना
Tenant	a person, business, group, etc., that pays to use another person's property	किरायेदार
Tirade	a long and angry speech	निंदा, भाषण
Undeniable	clearly true ,impossible to deny	अविवादित

SSC MOCK TEST - 205 (ANSWER KEY)

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



76. (A) Add 'a' before 'Great many' 'A great many' means 'a large number of and' is used with plural countable noun. Hence it will take plural verb.
77. (B) Remove 'but'. The sentence does not have contradictory meaning hence use of but is irrelevant.
78. (A) Change 'to' into 'for'.
79. (B) 'fastidious' is the correct option. Fastidious means hard to please. (तुनुक मिजाज)
80. (B) 'reeked' is the correct option. 'Reek' means a strong or disagreeable fume or odour. (दुर्गंध)
81. (C) 'relinquished' is the correct option. 'Relinquish' means to give (something, such as power, control or possession) to another person or group. (त्याग देना)
88. (C) 'the only mistake' is the correct option. 'Only' is an adverb and an Adverb is always placed adjacent to the word that it modifies. If the position of adverb is changed the meaning of the sentence changes. (See chapter 'Adverb' of English Vol.1)
89. (B) 'to further explore' is the correct option.
- Farther means at a greater distance (दूरी में और अधिक)
 - Further means in addition (और)
92. (C) 'Counterfeit' is the correctly spelt word. 'Counterfeit' means to make an exact copy of (something) in order to trick people (नकली)
93. (C) 'acquisition' is the correctly spelt word. 'Acquisition' means the act or process of gaining skill, knowledge etc. (अधिग्रहण)

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