

**CPO MOCK TEST - 13 (SOLUTION)**

1. (B) Inch is smaller unit than Yard. Similarly, Ounce is smaller unit than Quart.  
 2. (C) Calorie is a unit of Heat. Similarly, Decibel is a unit of Sound.

3. (B)  $\begin{matrix} +1 & +3 & +1 & +3 & +1 & +3 & +1 & +3 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 7 & 8 & 10 & 13 & 17 & 18 & 20 & 23 & 3 & 4 & 6 & 9 & 13 & 14 & 16 & 19 \\ G & H & J & M & Q & R & T & W & C & D & F & I & M & N & P & S \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +2 & +4 & +2 & +2 & +2 & +4 & +2 & +2 & +2 & +4 & +2 & +2 & +2 & +4 & +2 & +2 \end{matrix}$

4. (C)  $17 : 102 :: 23 : 138$   
 $\frac{17 \times 6 = 102}{23 \times 6 = 138}$

5. (A)  $\begin{matrix} +1 & +2 & +3 & +4 & +1 & +2 & +3 & +4 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 3 & 5 & 9 & 13 & 4 & 7 & 14 & 7 & 6 & 7 & 9 & 15 & 7 & 9 & 12 & 19 \\ C & E & I & M & D & G & L & Q & F & G & I & O & G & I & L & S \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 & +2 \end{matrix}$

6. (C) The pronunciation of 'ARE' is 'R' and the pronunciation of 'YOU' is 'U'.

7. (A)  $23 : 08 \ 27 :: 45 : 64 \ 125$   
 $\frac{23 \times 2^3 = 184}{27 \times 3^3 = 243} :: \frac{45 \times 4^3 = 720}{125 \times 5^3 = 3125}$

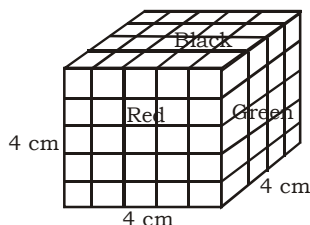
8. (B) Carpentry is a skill and it is a skill while singing is a talent.  
 9. (B) All except (B) are way of seeing life.

10. (B) (A) I K M O      (B) T V W Y  
 $\frac{I+K=10}{K+M=10} :: \frac{T+V=10}{V+W=10}$   
 (C) A C E G      (D) F H J L  
 $\frac{A+C=10}{C+E=10} :: \frac{F+H=10}{H+J=10}$

11. (A) After rearranging the letters, all are the name of animals (RAT, CONDOR, ELEPHANT) except FEFEEO (COFFEE).  
 12. (D) Except PERU, rest of the words have first and last letter as vowels.  
 13. (C) All except (C) have difference of 17.

14. (A)  $30 \left( \frac{M}{5} - H \right) - \frac{M}{2}$   
 $30 \left( \frac{25}{5} - 3 \right) - \frac{25}{2}$   
 $= 60 - 12.5$   
 $= 47.5 = 47 \frac{1}{2}$

15. (B) One side of the big cube =  $\sqrt[3]{64} = 4$  cm



Number of small cubes having three faces coloured = 1 at each corner  
 $= 1 \times 8 = 8$

16. (D) The year 2006 is an ordinary year. So, it has 1 odd day.  
 So, the day on 8th Dec, 2007 will be 1 day beyond the day on 8th Dec, 2006.  
 But, 8th Dec, 2007 is Saturday.  
 $\therefore$  8th Dec, 2006 is Friday.

17. (A)

18. (C)

So,  $\blacktriangle / \bigcirc$ ,  $\ast / \blacksquare$  and  $\bullet / \star$  are opposite to each other.

19. (D)  $4 \times \frac{6}{2} - 4 + 8 = 16$   
 $\frac{4 \times 3}{2} - 4 + 8 = 16$   
 $20 - 4 = 16$

20. (B) 2, 1, 4, 3

21. (D) D is not present in word GEOSTATIONARY.

22. (A)

Following the same pattern, we have -

23. (C)  $1 + 4 + 7 + 4 = 16 = 4^2 = 4$  (mid term)  
 $4 + 1 + 3 + 1 = 9 = 3^2 = 3$  (mid term)  
 $5 + 6 + 6 + 8 = 25 = 5^2 = 5$  (mid term)

24. (D)  $6 \times 5 \div 3 = 10$   
 $2 \times 8 \div 4 = 4$   
 $4 \times 6 \div 3 = 8$   
 $5 \times 9 \div 15 = 3$

25. (C)  $5^2 + 9^2 + 4^2 = 18 = [5 + 9 + 4]$   
 $6^2 + 3^2 + 7^2 = 16 = [6 + 5 + 7]$   
 $8^2 + 2^2 + 10^2 = 20 = [8 + 2 + 10]$

26. (A)  $2 \times 3 + 2 = 8$   
 $3 \times 4 + 3 = 15$   
 $4 \times 5 + 4 = 24$   
 $5 \times 6 + 5 = 35$

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27. (D) L A C K = 396

$$12 \times 1 \times 3 \times 11$$

B A C K = 66

$$2 \times 1 \times 3 \times 11$$

28. (C) B + A + T = 23

$$2 \quad 1 \quad 20$$

D + O + L + L = 43

$$4 \quad 15 \quad 12 \quad 12$$

29. (A) 

Shena	Meena	Gayatri	Malini	Anjana
•	•	•	•	•
-----				
Last				First

30. (B) 

EZ	FY	HW	KT
↖	↖	↖	↖
-1	-2	-3	
↘	↘	↘	↘
+1	+2	+3	

31. (C) 

1	5	13	25	41	61	<b>85</b>
↘	↘	↘	↘	↘	↘	↘
+4	+8	+12	+16	+20	+24	

32. (C) 

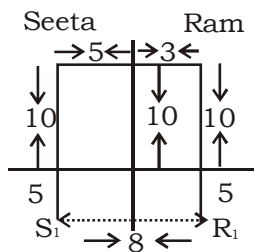
1	5	21	57	<b>121</b>	221
↘	↘	↘	↘	↘	↘
+4	+16	+36	+64	+100	
↓	↓	↓	↓	↓	
$2^2$	$(4)^2$	$(6)^2$	$(8)^2$	$(10)^2$	

33. (B) 

A	Z	W	D	C	X	U	F	E	V	S	H	G	T	O	J
↖	↖	↖	↖	↖	↖	↖	↖	↖	↖	↖	↖	↖	↖	↖	↖
+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2
↘	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘	↘
opp.	opp.	opp.	opp.	opp.	opp.	opp.	opp.	opp.	opp.	opp.	opp.	opp.	opp.	opp.	opp.

34. (B) The girl is the daughter of the sister of Rahul's father. Hence, the girl is the cousin or Rahul is the cousin of the girl.

35. (D) R, S, = 8 Km



36. (B)

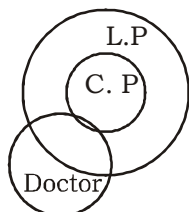
37. (B)

38. (B) Given: A > B, C & D > E

The correct order is D > C > E > A > B.

So, 'B' is the youngest.

39. (C) Both I & II follows



40. (D)

41. (C) aba/aba/aba/aba

42. (A) smnx/smnx/smnx /smnx

43. (B)

44. (C) G A M B L E

↓ -1 +1 -1 +1 -1 +1  
F B L C K F

Similarly,

F L O W E R  
↓ -1 +1 -1 +1 -1 +1  
**E M N X D S**

45. (A) Present age of Rina = 8 yrs

Present age of his father = 40 yrs

Present age of his mother = 40 - 6 = 34 yrs

46. (C)

47. (B)

48. (B)

49. (A)

50. (B)

51. (C) Island of Corsica is Located in the Western Mediterranean. A region of France, Corsica was ruled over the centuries by the Carthaginians, Romans, Vandals, Goths and Saracens. Napoleon Bonaparte (1769-1821), also known as Napoleon I, a French military leader and emperor who conquered much of Europe in the early 19th century was born on the island of Corsica.

52. (B) Gupta era is known for a large number of pillar inscriptions erected at a number of places. Out of them Prayag Prashasti (Allahabad Pillar Inscription) by Samudragupta was Composed by Harisena in a very simple and refined Sanskrit in Champukavya style.

53. (C) Philadelphia is the largest city in the Commonwealth of Pennsylvania and the fifth most populous in the North-eastern United States. Throughout the 19th century, Philadelphia had a variety of industries and businesses, the largest being textiles. Major corporations in the 19th and in early 20th centuries included the Baldwin Locomotive Works, William Cramp and Sons Ship and Engine Building Company, and the Pennsylvania Railroad Industry.

54. (C) Japan is a stratovolcanic archipelago of 6,852 islands. The four largest islands are Honshu, Hokkaido, Kyushu, and Shikoku, which together comprise about 97% of Japan's land area. Zinc, copper, and oil have been found on Honshu.
55. (A) Fibrinogen is a glycoprotein in vertebrates that helps in the formation of blood clots. It consists of a linear array of three nodules held together by a very thin thread which is estimated to have a diameter between 8 and 15 Angstrom (Å). Glycoprotein is converted by thrombin into fibrin during blood clot formation.
57. (A) Fluorosis is a disease caused by water that contains high amount of fluoride particularly in ground water.
59. (B) Kudankulam Nuclear Power Plant station is situated in Kudankulam in Tirunelveli district of Tamil Nadu. This is a joint Russia-India project.
60. (B) Free Press of India was an Indian nationalist-supporting news agency founded in the 1920s(1923-27) by Swaminathan Sadanand, during the period of the British Raj. It was the first news agency owned and managed by Indians.
61. (C) The Central Bank employs a range of both direct and indirect instruments to effect monetary policy. The indirect or market based instruments largely comprise open market operations and the use of a policy interest rate- the 'Repo' rate.
62. (C) Bangladesh has become the first country in the world to receive funds from United Nations for its fast growing Solar Home Systems. In this regard, UN Framework Convention for Climate Change (UNFCCC) has issued carbon credits (CC) worth 3.56 million US dollars to two Bangladeshi organisations.
63. (D) Vitamin C because animal food and product is deficient in vitamin C.
67. (A) The Gandhi-Irwin Pact was a political agreement signed by Mahatma Gandhi and the then Viceroy of India, Lord Irwin on 5 March 1931 before the second Round Table Conference in London
68. (C) The Kannauj assembly (643 AD) was held in the honour of Hieun Tsang (Chinese pilgrim) and to popularise Mahayana sect of Buddhism. Harshavardhana was a Mahayana Buddhist. He organised Kannauj assembly (643 AD). Though, he was a tolerant ruler and supported all Indic faiths viz. Buddhism, Vedism and Jainism. The scholars regarded him as the last great Hindu emperor of India, who ruled over Northern India.
69. (B) Tuvalu, in the South Pacific, is an independent island nation within the British Commonwealth. Its 9 islands comprise small, sparsely populated atolls and reef islands with palm-fringed beaches and WW II sites.
70. (C) The Government of Assam and Ola, a ride-sharing company recently signed a Memorandum of Understanding (MoU) to pilot an app-based river taxi service in the state's capital city -Guwahati.
73. (C) Earth Day is celebrated on April 22nd every year. The theme for 2018 is 'End Plastic Pollution', including creating support for a global effort to eliminate primarily single-use plastics along with global regulation for the disposal of plastics.
- 75 (D) Kisan Urja Suraksha evam Utthaan Mahabhiyan (KUSUM) Scheme has been announced by the Central Government in the Union budget 2018-19 for promoting solar power production and solar farming which will benefit the farmers. ₹ 48,000 crores have been allocated for the scheme for a period of ten years. Ministry of New and Renewable Energy is responsible for the implementation of this programme.
78. (B) The Great Bath is one of the best-known structures among the ruins of the ancient Indus Valley Civilization at Mohenjodaro in Sindh, Pakistan.
79. (C) Fertilization of Human egg takes place in ampulla of Fallopian tube.
80. (A) The Constituent Assembly adopted the Constitution of India, drafted by a committee headed by Dr. B. R. Ambedkar, on 26 November 1949. India became a sovereign, democratic, republic after its constitution came into effect on 26 January 1950.
81. (B) Ala-ud-din Khilji ( died in 1316), born as Juna Muhammad Khilji, was the second ruler of the Khilji dynasty. He is considered the most powerful ruler of the dynasty, He also had his Eunuch

consort Malik Kafur who hold the reigns of the empire in his last few years. After conquering Devagiri and Warangal, Alaud-din Khilji sent Malik Kafur (1311) against king Vira Ballala III of the Hoyasala Kingdom of Halebidu. Veera Ballala was surprised and forced to pay an indemnity and become a vassal.

82. (B) India's first national park was established in 1936 as Hailey National Park, now known as Jim Corbett National Park, Uttarakhand.

83. (B) Atomic mass = No. of protons + No. of neutrons.

84. (C) To provide financial assistance to poor girls, West Bengal government has launched a scheme called "Rupashree" which provides one-time financial support of ₹ 25,000 for marriage. The West Bengal Government has allocated ₹ 1500 Crore to this scheme.

Eligibility- (1) Beneficiary must be the permanent resident of the West Bengal. (2) Women should be more than 18 years of age at the time of marriage. (3) The Annual income of a family should be less than ₹ 1.5 lakh.

85. (C) Stomata pores open by endosmosis in which water moves into the guard cell in response of decrease in the potential of guard cell.

86. (B) The refractive index is proportional to the wavelength, so the longer the wavelength the more it refracts. Red has the longest wavelength we can see, so the red letters will appear more raised up than any other colour. Blue/violet have the shortest wavelengths so they will appear lower than any other colour.

93. (B) The Insolvency and Bankruptcy Board of India (IBBI) signed a Memorandum of Understanding with the Reserve Bank of India for effective implementation of the Code and its allied rules and regulations, through a quick and efficient resolution process.

97. (C) Gujarati poet, playwright and academic Sitanshu Yashaschandra has been selected for the 2017 Saraswati Samman for his collection of verses titled 'Vakhar' (published in 2009). The Saraswati Samman is an annual

award for outstanding prose or poetry literary works in any 22 Indian languages listed in Schedule VIII of the Indian Constitution. It is named after an Indian goddess of Learning 'Saraswati' and is considered to be among the highest literary awards in India. The Saraswati Samman was instituted in 1991 by the K.K. Birla Foundation. It consists of ₹ 15 lakh, a citation and a plaque. Harivansh Rai Bachchan was the first recipient of this award.

99. (B) The first Deputy Prime Minister of India was Sardar Vallabhbhai Patel, who was also home minister in Jawaharlal Nehru's cabinet.

100. (C) An allele is an alternative form of gene not is location at a specific position on a specific chromosome.

101. (D) Let  $x$  be the initial amount

$$\text{Remaining money} = \left(\frac{9}{10}\right) \times \left(\frac{9}{10}\right) \times \left(\frac{9}{10}\right) \times x$$

ATQ,

$$\frac{9}{10} \times \frac{9}{10} \times \frac{9}{10} \times x = 7290$$

$$x = 10,000$$

102. (C) ATQ,

Total 100	Boys 12+44 56	Girls 44
	12%	
	<b>14</b>	<b>11</b>

103. (B) ATQ,

$$a^4 + b^4 = 8 - a^2b^2 \quad \dots(i)$$

$$\text{and } a^2 + b^2 = 4 - ab \quad \dots(ii)$$

Squaring both side of equation (ii)

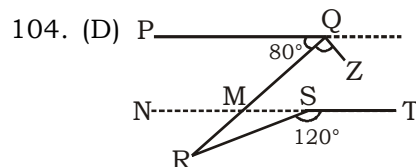
$$a^4 + b^4 + 2a^2b^2 = 16 + a^2b^2 - 8ab$$

$$\Rightarrow 8 - a^2b^2 + 2a^2b^2 = 16 + a^2b^2 - 8ab$$

$$\Rightarrow 8 + a^2b^2 = 16 + a^2b^2 - 8ab$$

$$\Rightarrow 8ab = 16 - 8 = 8$$

$$ab = 1$$



$$\angle RMS = \angle QMN = 180^\circ - 80^\circ = 100^\circ$$

$$\angle RST = \angle RMS + \angle SRM$$

$$120^\circ = 100^\circ + \angle SRM$$

$$20^\circ = \angle SRM$$

105. (C) Let the amount of Royalty to be paid for these books be ₹  $r$ .  
Then,  $20 : 15 = 30600 : r$   
 $\Rightarrow = ₹ \left( \frac{30600 \times 15}{20} \right) = ₹ 22,950$

106. (C) Central angle corresponding to Royalty = (15% of 360)<sup>o</sup>  
 $= \left( \frac{15}{100} \times 360 \right)^o = 54^o$

107. (B) Clearly, marked price of the book = 120% of C.P.  
Also, cost of paper = 25% of C.P.  
Let the cost of paper for a single book be ₹  $n$   
Then,  $120 : 25 = 180 : n$   
 $\Rightarrow n = ₹ \left( \frac{25 \times 180}{120} \right) = ₹ 37.50$

108. (B) Let B = 100

	A	:	B	:	C	:	D
Initial →	150	:	100	:	100	:	160
	↓ +10%		↓ +10%		↓ +10%		↓ +10%
New →	165		110		110		176

Required percentage =  $\frac{176}{110} \times 100 = 160\%$

109. (A)  $(A + B) \times 5 = \left( 2A + \frac{B}{2} \right) \times 4$   
 $5A + 5B = 8A + 2B$   
 $3A = 3B$   
 $A = B$   
Efficiency of A and B is equal we can take any value.  
Let  $A = B = 2$   
Total work =  $(2 + 2) \times 5 = 20$  units  
Time taken by A =  $\frac{20}{2} = 10$  days

110. (C) Marked price = ₹ 180  
after 10% discount = ₹ 162  
 $\therefore$  Required percentage =  $\frac{24.3}{162} \times 100 = 15\%$

111. (D) Weight → 3 : 2 : 1 → 36  
Price → 9 : 4 : 1 → 14  
 $\therefore 22 = 2310$   
 $\therefore$  Required price =  $\frac{2310}{22} \times 36 = ₹ 3780$

112. (A) Let the sum given to Prakash be  $x$   
 $\therefore x \times \frac{16}{100} \times 3 - 6300 \times \frac{14}{100} \times 3 = 618$   
 $\Rightarrow \frac{x \times 48}{100} - 63 \times 14 \times 3 = 618$   
 $\Rightarrow \frac{48x}{100} = 618 + 2646$   
 $\therefore x = \frac{3264 \times 100}{48} = ₹ 6800$

113. (B) Quotient = 16  
Divisor =  $25 \times 16 = 400$   
and remainder = 80  
Dividend = Divisor  $\times$  quotient + remainder  
 $= 400 \times 16 + 80$   
 $= 6480$

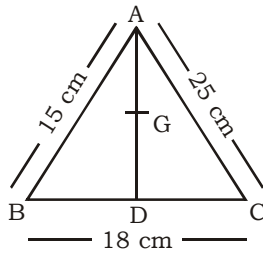
114. (A) Numbers =  $3x$  and  $4x$   
HCF =  $x = 4$   
 $\therefore$  LCM =  $12x = 12 \times 4 = 48$

115. (A)  $\frac{1}{12}$  hectare =  $\frac{1}{12} \times 10000$  sq. metre  
 $= \frac{2500}{3}$  sq. metre  
 $\therefore 3x \times 4x = \frac{2500}{3}$

$\Rightarrow x^2 = \frac{2500}{3 \times 3 \times 4} \Rightarrow x = \frac{50}{6}$   
 $\Rightarrow$  Width =  $3x = 3 \times \frac{50}{6} = 25$  metre

116. (A)  $\therefore x^4 + \frac{1}{x^4} = 47$   
 $\therefore x^2 + \frac{1}{x^2} = 7$   
 $x + \frac{1}{x} = 3 \quad + \quad x - \frac{1}{x} = \sqrt{5}$   
 $2x = 3 + \sqrt{5}$   
 $x = \frac{3 + \sqrt{5}}{2}$

117. (C)



$$(AB)^2 + (AC)^2 = 2[(AD)^2 + (BD)^2]$$

$$225 + 625 = 2[(AD)^2 + 81]$$

$$(AD)^2 = 344$$

$$AD = 2\sqrt{86} \text{ and } GD = \frac{1}{3}AD$$

$$GD = \frac{2}{3}\sqrt{86}$$

118. (A) Formula =  $2\sqrt{ab}$   
 $= 2\sqrt{4 \times 9} = 12$

119. (C)  $\sin \theta = \frac{1}{2} = \sin 30^\circ = \sin \frac{\pi}{6}$

$$\Rightarrow \theta = \frac{\pi}{6} \quad [\because 180^\circ = \pi \text{ radian}]$$

$$\therefore \theta + \phi = \frac{\pi}{2} \Rightarrow \frac{\pi}{6} + \phi = \frac{\pi}{2} \quad [\because 90^\circ = \frac{\pi}{2} \text{ radian}]$$

$$\Rightarrow \phi = \frac{\pi}{2} - \frac{\pi}{6} = \frac{3\pi - \pi}{6}$$

$$= \frac{2\pi}{6} = \frac{\pi}{3}$$

$$\therefore \sin \phi = \sin \frac{\pi}{3} = \frac{\sqrt{3}}{2}$$

120. (D) Let the opponent got K votes, then winner got K + 200 votes.

ATQ,  
 20% voters did not vote  
 2% of total votes = 200 - 120

$$\Rightarrow 80\% - 120 = K + 200 + K$$

$$80\% = K + 200 + K + 120$$

$\downarrow \qquad \qquad \qquad \downarrow$   
 41% \qquad \qquad \qquad 39%

↔ 2% ↔

= 80  
 Total votes = 4,000  
 Votes for the losing candidate

$$= \frac{39}{100} \times 4000 - 120 = 1440$$

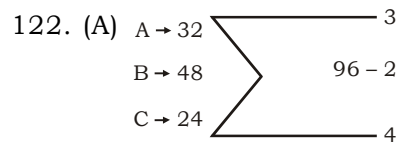
$$\text{Total votes casted} = \frac{4}{5} \times 4000 = 3200$$

$$\text{Required percentage} = \frac{1440}{3200} \times 100$$

$$= 45\%$$

121. (B) C.P of 100 eggs = ₹ 120  
 S.P. of 96 eggs (8 dozen) = 15 × 8  
 ₹ = 120

∴ No profit no loss



(A + B + C)'s 4 days work = 9 × 4 = 36 unit  
 Now, (B + C)'s 2 day work = 6 × 2 = 12 unit  
 Remaining work = 96 - (36 + 12) = 48 unit

$$\therefore \text{C complete the remaining work in} = \frac{48}{4}$$

= 12 days

Now, efficiency of A : B and C

$$= \frac{4}{32} : \frac{6}{48} : \frac{18}{24}$$

$$= 1 : 1 : 6$$

$$\therefore \text{Share of A} = \frac{6480}{8} \times 1 = ₹ 810$$

$$\text{Share of B} = \frac{6480}{8} \times 1 = ₹ 810$$

$$\text{and Share of C} = \frac{6480}{8} \times 6 = ₹ 4860$$

123. (B) A = 3 units = ₹ 8550

$$A + B = 5 \text{ units} = \frac{5 \times 8550}{3} = ₹ 14250$$

$$\text{Total profit} = \frac{14250}{95} \times 100 = ₹ 15000$$

124. (D) One way walking + one way riding time

$$= 4 \text{ hrs } 30 \text{ min} = \frac{9}{2} \text{ hrs} \quad \dots(i)$$

and two ways riding time = 3 hrs

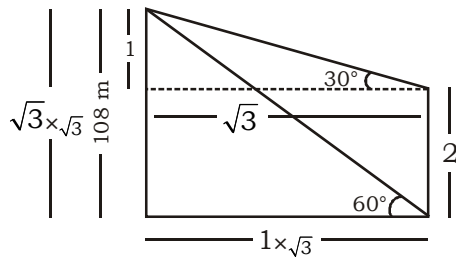
$$\therefore \text{one way riding time} = \frac{3}{2} \text{ hrs}$$

∴ From (i), one way walking time

$$= \frac{9}{2} - \frac{3}{2} = \frac{6}{2} = 3 \text{ hrs}$$

$$\therefore \text{Two ways walking time} = 2 \times 3 = 6 \text{ hrs}$$

125. (B)



$$\therefore 3 \text{ unit} = 108 \text{ m}$$

$$\therefore \text{Required length} = \frac{108}{3} \times 2 = 72 \text{ m}$$

126. (C) Let the no. be  $x$  and  $y$

ATQ,

$$xy = 120$$

$$x^2 + y^2 = 289$$

$$(x - y)^2 = x^2 + y^2 - 2xy$$

$$289 - 2 \times 120 = 289 - 240 \Rightarrow 49$$

$$\therefore x - y = 7$$

127. (B) Volume of cylinder =  $\pi r^2 h$

$$\therefore 50\% = \frac{1}{2} \text{ \& } 60\% = \frac{3}{5}$$

$$\therefore \text{Radius} \rightarrow 4 - 1$$

$$\text{Height} \rightarrow 5 - 8$$

$$\text{Volume} \rightarrow \frac{20 \times 8}{12}$$

$$\therefore \text{Required\%} = \frac{12}{20} \times 100 = 60\%$$

128. (C)  $\therefore x + \frac{a}{x} = 1$

$$\therefore x^2 + a = x$$

$$x^2 - x = -a$$

ATQ,

$$\frac{x^2 + x + a}{x^3 - x^2}$$

Dividing both  $N_r$  &  $D_r$  by  $x$

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

129. (C) Each interior angle of a regular polygon

$$= 180 \times \frac{3}{5} = 108^\circ$$

$$\therefore \text{Each exterior angle} = 180^\circ - 108^\circ = 72^\circ$$

$$\therefore \text{No. of sides} = \frac{360}{72} = 5$$

130. (B)  $\therefore a^3 + b^3 + c^3 - 3abc$

$$\therefore \frac{1}{2} (a + b + c)[(a - b)^2 + (b + c)^2 + (c - a)^2]$$

$$\Rightarrow \frac{1}{2} (999 + 996 + 998)[(3)^2 + (2)^2 + (-1)^2]$$

$$= \frac{1}{2} (2993) (14) + 49$$

$$= 21000$$

131. (B)  $\frac{\cos^2 60^\circ + 4 \sec^2 30^\circ - \tan^2 45^\circ}{\sin^2 30^\circ + \cos^2 30^\circ}$

$$= \left(\frac{1}{2}\right)^2 + 4 \left(\frac{2}{\sqrt{3}}\right)^2 - 1$$

$$= \frac{1}{4} + \frac{16}{3} - 1$$

$$\Rightarrow \frac{3 + 64 - 12}{12} = \frac{55}{12}$$

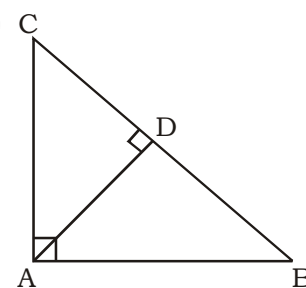
132. (A) Let the value of  $a = 1, b = 1$  and  $c = -2$

Put the value in equation

$$\left(\frac{1+1}{-2} + \frac{1-2}{1} + \frac{-2+1}{1}\right) \left(\frac{1}{1-2} + \frac{1}{-2+1} + \frac{-2}{1+1}\right)$$

$$(-1 - 1 - 1)(-1 - 1 - 1) \Rightarrow 9$$

133. (A)



$$AB = \sqrt{(AD)^2 + (BD)^2} = \sqrt{36 + 16} = \sqrt{52} \text{ cm}$$

$$\Rightarrow AB^2 = BC \times BD$$

$$\Rightarrow 52 = BC \times 4$$

$$BC = 13 \text{ cm}$$

134. (A)  $A + B = 90^\circ$

$$\Rightarrow B = 90 - A$$

$$\therefore \sec^2 A + \sec^2 B - \sec^2 A \cdot \sec^2 B$$

$$= \sec^2 A + \operatorname{cosec}^2 A - \sec^2 A \cdot \operatorname{cosec}^2 A$$

$$= \frac{1}{\cos^2 A} + \frac{1}{\sin^2 A} - \frac{1}{\sin^2 A \cdot \cos^2 A}$$

$$= \frac{\sin^2 A + \cos^2 A - 1}{\sin^2 A \cdot \cos^2 A} \Rightarrow 0$$





In  $\triangle OAC$  and  $\triangle OEC$   
 $OC = OC$  (common)  
 $\therefore \triangle OAC \cong \triangle OEC$   
 $\therefore \angle AOC = \angle COE = \angle 1 = \angle 2$   
 Similarly,  $\triangle OBD \cong \triangle OED$   
 $\therefore \angle 3 = \angle 4$   
 $\angle AOB = 180^\circ - 34^\circ = 146^\circ$   
 In  $\triangle AOB$   
 $\angle 1 + \angle 2 + \angle 3 + \angle 4 = 146^\circ$   
 $\Rightarrow \angle 2 + \angle 2 + \angle 3 + \angle 3 = 146^\circ$   
 $\Rightarrow \angle 2 + \angle 3 = 73^\circ$   
 $\angle COD = 73^\circ$

148. (D) Average amount of interest paid by the Company during the given period

$$= ₹ \left[ \frac{23.4 + 32.5 + 41.6 + 36.4 + 49.4}{5} \right] \text{ lakhs}$$

$$= ₹ \left[ \frac{183.3}{5} \right] \text{ lakhs}$$

$$= ₹ 36.66 \text{ lakhs}$$

149. (C) Required percentage

$$= \left[ \frac{(3.00) + 2.52 + 3.84 + 3.68 + 3.96}{(288 + 342 + 324 + 336 + 420)} \times 100 \right] \%$$

$$= \left[ \frac{17}{1710} \times 100 \right] \% \approx 1\%$$

150. (C) Required percentage

$$= \left[ \frac{(288 + 98 + 3.00 + 23.4 + 83)}{(420 + 142 + 3.96 + 49.4 + 98)} \times 100 \right] \%$$

$$= \left[ \frac{495.4}{713.36} \times 100 \right] \% \approx 69.45\%$$

151. (A) Replace 'will kill' by 'would kill'. The sentence is of conditional.

152. (C) Replace 'or' by 'nor', as 'neither' is followed by 'nor'.

153. (D)

154. (C) Replace 'isn't it' by 'didn't she?' as the question tag and the sentence must be in the same tense.

155. (A) Sentence starting with 'Not only' takes inversion form. Thus, it should be as 'not only did the bandit rob the person'. The structure may also be 'The bandit not only robbed .....

158. (B) 'Yell **at** some one'  
 'Yell **for** help'.

159. (C) 'Abstain' takes preposition 'from' after it.

176. (C) 'Keen' takes preposition 'on' after  $V_1 + \text{ing}$ '.

178. (B) 'Cut a sorry figure' is an idiom which means 'to leave poor impression'.

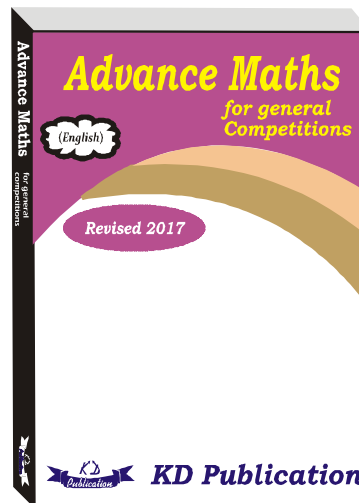
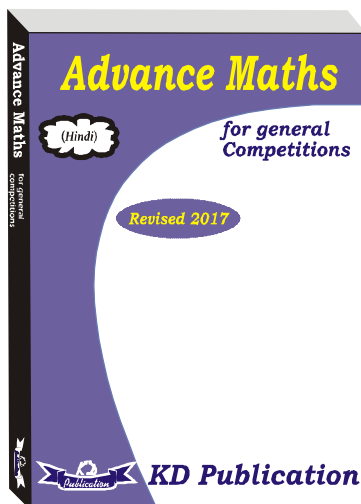
179. (D) Sentence starting with 'No sooner' takes an inversion form. Thus it will take following form:

No sooner + did + sub +  $V_1$  + simple past tense

181. (C) Remove 'been' as this is not a passive voice.

182. (B) Plural form of 'woman doctor' is 'women doctors'.

**For all general competitive exams**



**MEANINGS IN ALPHABETICAL ORDER**

<b>Word</b>	<b>Meaning in English</b>	<b>Meaning in Hindi</b>
Affidavit	A written statement confirmed by oath or affirmation, for use as evidence in court.	शपथ पत्र
Affiliation	A person's connection with a political party, religion, etc.	संबंध
Amnesty	An official pardon for people who have been convicted of political offenses.	सर्वक्षमा
Anecdote	A short and amusing or story about a real incident or person.	किसी घटना का विवरण
Aristocrat	People born in the highest social class, who have special titles	रईस, कुलीन
Ascertain	Find (something) out for certain; make sure of.	सुनिश्चित करना
Coexist	Exist at the same time or in the same place.	एक साथ होना
Compliance	The action or fact of complying with a wish or command.	आज्ञा पालन
Credulous	Having or showing too great a readiness to believe things.	विश्वास करने को आतुर
Critics	A person who judges the merits of literary or artistic works	समीक्षक
Elite	people who are powerful, rich, intelligent and have a lot of influence.	संभ्रांत, समाज के उत्कृष्ट व्यक्ति
Harmonise	Go well together and produce an attractive result	मिलाना, अनुरूप करना
Ignoramus	An ignorant or stupid person.	मूर्ख
Impressionable	Easily influenced because of a lack of critical ability.	शीघ्र प्रभावित होने वाला
Ingenious	(of a person) clever, original, and inventive.	चतुर, प्रतिभा संपन्न
Insight	The capacity to gain an accurate and deep intuitive understanding of a person or thing.	सूक्ष्म ज्ञान, अंतर्दृष्टि
Intellectual	A person possessing a highly developed intellect.	बुद्धिजीवी
Intolerable	Unable to be endured.	असहनीय
Jocose	Playful or humorous.	हास्यपूर्ण
Lacuna	An unfilled space or interval; a gap.	कमी, रिक्त स्थान
Lassitude	A state of physical or mental weariness; lack of energy.	थकावट, सुस्ती
Latent	(of a quality or state) existing but not yet developed	अंतर्निहित, छिपा हुआ
Lenient	(of punishment or a person in authority) permissive, merciful, or tolerant.	नरम
Menacingly	In a threatening way	भयावह तरीके से
Nepotism	The practice among those with power or influence of favoring relatives or friends, especially by giving them jobs.	भाई-भतीजावाद
Nightmare	An experience very frightening and unpleasant	भयावह अनुभव
Nincompoop	A foolish or stupid person.	मूर्ख
Parable	A simple story used to illustrate a moral or spiritual lesson	नीतिकथा, कहावत
Parentage	The identity and origins of one's parents.	उत्पत्ति
Pedant	A person who is excessively concerned with minor details and rules.	पुस्तकीय ज्ञान या तकनीकी ज्ञान को अधिक महत्त्व देने वाला व्यक्ति
Prowl	(of an animal) to move quietly and carefully around an area, especially when hunting	घात लगाकर
Relentless	Oppressively constant; incessant.	निरन्तर
Ruthless	Having or showing no pity or compassion for others.	क्रूर
Sardonic	Grimly mocking or cynical.	निंदापूर्ण, व्यंग्यात्मक
Steadfast	Resolutely or dutifully firm and unwavering.	दृढ़
Tranquilize	(of a drug) have a calming or sedative effect on.	शांत करना
Voluntary	Done, given, or acting of one's own free will.	स्वैच्छिक

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**CPO MOCK TEST - 13 (ANSWER KEY)**

- |         |         |         |          |          |          |          |          |
|---------|---------|---------|----------|----------|----------|----------|----------|
| 1. (B)  | 26. (A) | 51. (C) | 76. (C)  | 101. (D) | 126. (C) | 151. (A) | 176. (C) |
| 2. (C)  | 27. (D) | 52. (B) | 77. (B)  | 102. (C) | 127. (B) | 152. (C) | 177. (A) |
| 3. (B)  | 28. (C) | 53. (C) | 78. (B)  | 103. (B) | 128. (C) | 153. (D) | 178. (B) |
| 4. (C)  | 29. (A) | 54. (C) | 79. (C)  | 104. (D) | 129. (C) | 154. (C) | 179. (D) |
| 5. (A)  | 30. (B) | 55. (A) | 80. (A)  | 105. (C) | 130. (B) | 155. (A) | 180. (C) |
| 6. (C)  | 31. (C) | 56. (D) | 81. (B)  | 106. (C) | 131. (B) | 156. (D) | 181. (C) |
| 7. (A)  | 32. (C) | 57. (A) | 82. (B)  | 107. (B) | 132. (A) | 157. (B) | 182. (B) |
| 8. (B)  | 33. (B) | 58. (B) | 83. (B)  | 108. (B) | 133. (A) | 158. (B) | 183. (B) |
| 9. (B)  | 34. (B) | 59. (B) | 84. (C)  | 109. (A) | 134. (A) | 159. (C) | 184. (D) |
| 10. (B) | 35. (D) | 60. (B) | 85. (C)  | 110. (C) | 135. (C) | 160. (D) | 185. (C) |
| 11. (A) | 36. (B) | 61. (C) | 86. (B)  | 111. (D) | 136. (B) | 161. (D) | 186. (C) |
| 12. (D) | 37. (B) | 62. (C) | 87. (B)  | 112. (A) | 137. (B) | 162. (A) | 187. (C) |
| 13. (C) | 38. (B) | 63. (D) | 88. (A)  | 113. (B) | 138. (D) | 163. (C) | 188. (A) |
| 14. (A) | 39. (C) | 64. (A) | 89. (C)  | 114. (A) | 139. (D) | 164. (B) | 189. (C) |
| 15. (B) | 40. (D) | 65. (B) | 90. (C)  | 115. (A) | 140. (B) | 165. (C) | 190. (B) |
| 16. (D) | 41. (C) | 66. (A) | 91. (D)  | 116. (A) | 141. (B) | 166. (A) | 191. (C) |
| 17. (A) | 42. (A) | 67. (A) | 92. (D)  | 117. (C) | 142. (A) | 167. (D) | 192. (A) |
| 18. (C) | 43. (B) | 68. (C) | 93. (B)  | 118. (A) | 143. (D) | 168. (A) | 193. (B) |
| 19. (D) | 44. (C) | 69. (B) | 94. (B)  | 119. (C) | 144. (D) | 169. (C) | 194. (B) |
| 20. (B) | 45. (A) | 70. (C) | 95. (C)  | 120. (D) | 145. (C) | 170. (A) | 195. (A) |
| 21. (D) | 46. (C) | 71. (A) | 96. (D)  | 121. (B) | 146. (C) | 171. (C) | 196. (B) |
| 22. (A) | 47. (B) | 72. (D) | 97. (C)  | 122. (A) | 147. (B) | 172. (C) | 197. (C) |
| 23. (C) | 48. (B) | 73. (C) | 98. (A)  | 123. (B) | 148. (D) | 173. (C) | 198. (B) |
| 24. (D) | 49. (A) | 74. (A) | 99. (B)  | 124. (D) | 149. (C) | 174. (B) | 199. (D) |
| 25. (C) | 50. (B) | 75. (D) | 100. (C) | 125. (B) | 150. (C) | 175. (A) | 200. (A) |

**For all Bank PO/ Clerk Exams**

