

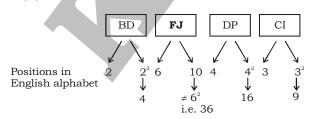
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CPO MOCK TEST - 28 (SOLUTION)

- Devotion is the characteristic of a monk 1. (D) whereas wanderlust is the characteristic of a Nomad.
- 2. (C) Slapstick results in laughter and horror results in fear.
- 3. (D) A Maestro leads an orchestra and a skipper leads a crew.
- 4. (B) Being erudite is a trait of a professor and being imaginative is a trait of an inventor.
- 5. (C) A finch is a type of bird and a Dalmatian is a type of dog.
- 6. (C) Honeybee, parrot and bat all have wings and they are capable of flying. Similarly, kangaroo, rabbit and grasshopper are all capable of hopping.
- 7. (C) Fly is to ant as snake is to lizard. The fly and ant both are insects similarly the snake and lizard both are reptiles.
- 8. (C)
- 9. (C) As, $23^2 + 23 = 552$ Similarly, $30^2 + 30 = 930$
- 10. (A) As, $\frac{6^3 + 6^2}{2} = \frac{216 + 36}{2} = \frac{252}{2} = 126$

Similarly,
$$\frac{8^3 + 8^2}{2} = \frac{512 + 64}{2} = \frac{576}{2} = 288$$

- 11. (D) In all the numbers, the middle digit is sum of digits of the product of two other digits. Now, $9 \times 2 = 18$, 1 + 8 = 9 (middle digit in 992) $7 \times 3 = 21, 2 + 1 = 3$ (middle digit in 733) $8 \times 5 = 40, 4 + 0 = 4$ (middle digit in 845) But, $9 \times 7 = 63$, $6 + 3 = 9 \neq 4$. Hence 947 is different from others.
- 12. (B)



- 13. (A) All except Spider are flying insects.
- 14. (A) All except Jaipur are hill stations.

- 15. (A) Except Iron box, all need some type of energy to function.
- 16. (A) All except 63 are prime numbers.
- 17. (B) Except Param veer chakra, rest are civilian awards.
- 18. (A) Except (41-72), in other opptions second number is divisible by sum of the digits of the first number.

4 + 1 = 5 and 72 is not divisible by 5.

3 + 0 = 3 and 30 is divisible by 3,

5 + 1 = 6 and 42 is divisible by 6,

2 + 0 = 2 and 18 is divisible by 2.

19. (B) Given: $2 + 8 \times 16 - 4 \div 2$

After interchanging the signs we have,

$$= 2 \times 8 - 16 \div 4 \times 2$$

$$= 2 \times 8 - 4 \times 2$$

$$= 16 - 8 = 8$$

- 20. (C)
- 21. (A) Let the number of guests be x. Then,

The number of bowls of rice = $\frac{\lambda}{2}$.

The number of bowls of dal = $\frac{x}{3}$.

The number of bowls of meat = $\frac{x}{4}$

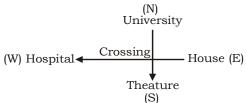
$$\therefore \frac{x}{2} + \frac{x}{3} + \frac{x}{4} = 65 \Rightarrow \frac{6x + 4x + 3x}{12} = 65$$

$$\Rightarrow 13x = 65 \times 12$$

$$\Rightarrow x = \left(\frac{65 \times 12}{13}\right) = 60.$$

So, the number of guests = 60.

22. (A)



Therefore the University is in North direction.

23. (A) Hence D is the letter which is missing and it is opposite to face A.

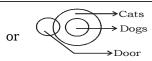
	Top face	Α	В	F
	Bottom face	Α	E	С
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2. 🗙 3. **~** 1. *

Hence, only (3) follows.

25. (D)
$$12 \times 8 - 7 = 96 - 7 = 89$$
,
 $15 \times 4 - 12 = 60 - 12 = 48$,
 $25 \times 3 - 13 = 75 - 13 =$ **62**

26. (C)
$$\sqrt{25 \times 9} = 5 \times 3 = 15$$

and $\sqrt{36 \times 81} = 6 \times 9 = 54$

Therefore
$$\sqrt{16 \times 169} = 4 \times 13 = 52$$

27. (B)
$$14 + 23 + 48 = 19 + 15 + 51 = 12 + 37 + 36$$

The sum in each case = 85.

- 28. (A) $P @ Q \rightarrow P$ is the wife of Q $Q \ T \rightarrow Q$ is the brother of T ...(ii) T # U \rightarrow T is the daughter of U Hence, Q is the son of U $U * W \rightarrow U$ is the father of W. From (i) and (iii), we can conclude that U is the father-in-law of P.
- 29. (C) Father of Kamal's daughter's father \rightarrow Kamal's father. Hence, the person is the brother of Kamal's father. Therefore, the person is the uncle of
- 30. (B) Both Mercury and Zinc are metals.

Kamal.

31. (C) After Studying the pattern carefully we can observe that in the first segment, two letters face right and the next two face left. The first letter in the second segment repeats the last letter of the previous segment. The same is true for the third segment. But in the fourth segment it changes again. Here, it is opposite of the first segment, so the last two letters must face right.

32. (B)
$$7 + 1^2 = 8$$
, $8 + 2^2 = 12$, $12 + 3^2 = 21$, $21 + 4^2 = 37$, $37 + 5^2 = 62$

- 33. (D) In this series, the letters remain the same i.e. DEF. The subscript numbers follow this series: 111, 112, 122, 222, 223, and so on.
- 34. (C) The first two letters PQ are common. The third letter is in alphabetical order, beginning with R and the number series is in descending order beginning with 5.
- 35. (D) The situation demands creating awareness among the people about the dangers of drinking polluted water so that they themselves refrain from the same and at the same time taking steps to provide safe drinking water. So, both the courses of

action follow.

36. (C) Let number of horses = number of men = x

Then, number of legs =
$$4x + 2 \times \left(\frac{x}{2}\right) = 5x$$
.

So,
$$5x = 70$$
 or $x = 14$.

37. (C) Let there be
$$(x + 1)$$
 members,

Father's share =
$$\frac{1}{4}$$
.

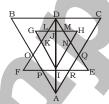
Share of each other member = $\frac{3}{4x}$.

$$\therefore 3\left(\frac{3}{4x}\right) = \frac{1}{4} \Rightarrow 4x = 36 \Rightarrow x = 9.$$

 \therefore Hence, total number of family members = 10.

38. (C)

39. (A) The figure may be labelled as shown.



The simple triangles are GLK, DLJ, DJM, HMN, QRE, IRA, IPA and FPO i.e. 8 in number.

The triangles having two components are BDO, CDQ, DLM, PRA, KFI, NEI, HJI, GJI, DKI and DNI i.e. 10 in number.

Triangles having four components are DIE, DFI, DOA, DQA and GHI i.e. 5 in number.

Triangles having six components are DCA and DBA i.e. 2 in number.

DEF is the only triangle having eight components.

ABC is the only triangle having twelve components.

Thus, there are 8+10+5+2+1+1=27triangles in the figure.

- 40. (D) 1, 3 contain a V-shaped element inside a geometrical figure.
 - 2, 4, 5 contain two similar elements, one placed inside the other and touching it.
 - 6, 7 contain geometrical figures which are divided into four equal parts by two mutually perpendicular straight lines.
- 41. (B)
- 42. (A)



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- 43. (D) when a cube is formed by folding the sheet shown in the question figure, then
 - is the one of the faces of the cube and this face lies opposite to a blank face. Also, a face bearing a square lies opposite to another blank face. The remaining two blank faces lie opposite to each other. Clearly, in the cube shown in figure (1), the face consisting of the four symbols which is not the same as that formed. Hence, the cube in figure (1) cannot be

44. (D)

45. (D) **[**

formed.

46. (C)

- 47. (C) The correct order is : Mercury \rightarrow Venus \rightarrow Earth \rightarrow Mars \rightarrow Jupiter
- 48. (C) The series is a<u>b</u>c<u>c</u>ab / b<u>c</u>a<u>a</u>bc / <u>a</u>bc<u>c</u>ab.
- 49. (A) $289 = 17^2$, $324 = 18^2$ and 36**1** $= 19^2$.

50. (C)

- 52.(D) Iran has unveiled the next generation Fateh Mobin short-range ballistic missile. IRAN:
 - Capital: Tehran
 - Currency: Rial
 - President: Hassan Rouhani
- 55. (C) Darul Uloom Deoband is an Islamic school where the Deobandi Islamic Movement was started. Deoband had opposed the Jinnah's Demand for the partition of British India into Muslim and Non-Muslim sections. The school advocates an orthodox version of Islam and has repeatedly distanced itself from religious extremism.
- 58.(B) Special film festival on theme "Freedom Struggle & Freedom Fighters" was conducted in Mumbai.
- 61. (A) Narsingh Mehta was a poet-saint of Gujarat, (India) and a member of the Nagar Brahmins community, notable as a bhakta, an exponent of Vaishnava poetry. He has been especially revered in Gujarati literature, where he is acclamied as its Adi Kavi (Sanskrit form "First among Poets"). His bhajan, 'Vaishnav Jan To' was Mahatma Gandhi's favourite and had become synonymous to him. The bhajan tells us about the life, ideals and mentality of a Vaishnav Jana (A follower of Vishnu or Krishna).
- 66. (C) Dhanvantri is an Avatar of Vishnu in the Hindu tradition. He appears in the Vedas and

- Puranas as the physician of the gods (devas) and the god of Ayurvedic medicine. It is common practice in Hinduism for worshipers to pray to Dhanvantri seeking his blessings for sound health for themselves and/or others. Dhanvantri is depicted as Vishnu with four hands, holding medical herbs in one hand and a pot containing rejuvenating nectar called amrita in another. The Purans state that Dhanvantri emerged from the 'Ocean of Milk' and appeared with the pot of nectar during the story of the Samudra or Sagar manthan whilst the ocean was being churned by the devas and asuras, using the Mandara mountain and the serpent Vasuki.
- 68.(B) Madhya Pradesh Government has observed Shaheed Saman Diwas on 14th August in all districts of the state.
- 71. (A) An electric organizer is a small calculator-sized computer which is found often with an in-built diary application and also with few other functions such as an address book and calendar. It normally has a small alphanumeric keypad and an LCD screen of one, two or three lines.
- 72.(C) Odisha Governor Prof Ganeshi Lal has released the Odia edition of "Exam Warriors", a book written by Prime Minister Narendra Modi on how to tackle examination woes.
- 73. (C) Fossils are the remains of the dead plants or animals trapped in the layers of rocks. Coal, oil and natural gas are called fossil fuels.
- 75. (B) The assets of the banks are the loans and advances given to the public. Banks earn interest on these loans and advance is the main source of income for the banks.
- 78.(D) Former Indian Spinner Ramesh Powar has been named as the head coach of the women's national team till the ICC World T20.
- 83. (C) Ecosystem is a relationship among the living resources, habitats and residents of an area. It includes plants, trees, animals, fish, birds, micro-organisms, water, soil people, etc.
- 84.(A) Sunil Chhetri has been chosen the 'Best Sportsperson of the Year' at the Calcutta Sports Journalists' Club annual awards.
- 87. (D) Though temperature and humidity are key elements of weather crucial for a good harvest in Indian agriculture, it is said to be the handmaid of monsoon. This is on account of the lack of irrigational facilities across the country. A good monsoonal year often means a bumper harvest.



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- 89. (A) The Vedas (Knowledge) are a large body of texts originating in ancient India, composed in Vedic Sanskrit. The texts constitute the oldest layer of Sanskrit literature and the oldest scriptures of Hinduism. The Vedas are apaurusheya ("not of human agency"). They are supposed to have been directly revealed, and thus are called Shruti ("What is heard"), distinguishing them from other religious texts, which are called Smriti ("What is remembered").
- 91. (C) Kovalam is a beach town by the Arabian Sea in Thiruvananthapuram city (Kerala). Kovalam has three beaches separated by rocky outcroppings in its 17 km coastline. The three beaches together form the famous crescent of the Kovalam beach.
- 92.(C) Asian Games Gold Medallist athlete Hakam Singh Bhattal has passed away recently. He was 60
- 93. (D) Venus can be seen with the unaided eye from Earth. It is the brightest planet in our Solar System. Venus was given the nickname evening star and morning star because of its bright consistent presence.
- 94. (B) Nagarjuna and Asvaghosha were the eminent Buddhist writers. Nagarjuna was the great exponent of Mahayana doctrine and Asvaghosha (a multifaceted personality) was known as a poet, musician, scholar and zealous Buddhist monk. Charaka, the most celebrated authority on Ayurveda was the court physician of Kanishka and Mathara, a politician of rare merit was his minister. Vasumitra presided over the fourth Buddhist Council.
- 96. (D) Human capital flight which is more commonly referred to as "brain drain" is the large-scale emigration of a large group of individuals with technically two aspects, which respectively come from countries and individuals. In terms of countries, the reasons may be social environment. In some countries it could be lack of opportunities, political instability, economic depression, health risks, etc. and in host countries it could be rich opportunities, political stability and freedom, developed economy, better living conditions, etc.
- 98. (A) The Chhatrapati Shivaji Maharaj Vastu Sangrahalaya (formerly Prince of Wales Museum of Western India) is the main museum in Mumbai (formerly Bombay). It was founded in the early years of the

- 20th century by prominent citizens of Bombay with the help of the government to commemorate the visit of the Prince of Wales.
- 99. (D) In computer programming, an event handler is an asynchronous call back subroutine that handles inputs received in a program. Each event is a piece of application-level information from the underlying framework, typically the GUI. GUI events include the key presses, mouse movement and action selectral concept in event-driven programming.
- 100. (C)According to FICCI's Economic Outlook Survey, India's Gross Domestic Product Growth Rate is expected to 7.4 % in the Financial Year 2018-19.
- 101. (A) Let the price of 1 gm is ₹ 1

Actual price: New price

Required percentage profit

$$= \frac{(1200 - 800)}{800} \times 100 = 50\%$$

102. (C) Total failed students

$$= \frac{3}{5} \times 900 + \frac{1}{2} \times 1100$$
$$= 540 + 550 = 1090$$

Required percentage = $\frac{1090}{2000} \times 100 = 54.5\%$

103. (C) Laxman Gopal

Last Year's Ratio 3 : 5

2 : 3 4 : 5

Individual Ratio Last Present Last Present

Present
$$3 \times \frac{3}{2}$$
 : $5 \times \frac{5}{4}$

→ 16∴ Present salary of Lakshman

$$= \frac{4300}{18 + 25} \times 18 = ₹ 1800$$

104. (B)
$$\frac{12.4 \times x + 26}{x + 5} = 12$$
$$\Rightarrow 12.4x + 26 = 12x + 60$$
$$\Rightarrow 0.4x = 34$$
$$x = \frac{34}{0.4}$$

$$0.4$$

$$x + 5 = 85 + 5 = 90$$



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- 105. (B) Here, 893 is exactly divisible by 47. Hence, the required remainder is obtained on dividing 193 by 47.
 - ∴ Remainder = 5
- 106. (A) Let ₹ x be lent at 10% per annum.
 - ∴ ₹ (1500 x) is lent at 7% per annum

Now,
$$\frac{x \times 10 \times 3}{100} + \frac{(1500 - x) \times 7 \times 3}{100} = 396$$

- \Rightarrow 30x + 31500 21x = 39600
- $\Rightarrow 9x = 39600 31500$

$$\Rightarrow x = \frac{8100}{9} = ₹900$$

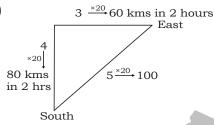
- 107. (B) $\frac{12}{20}$ × (10m + 10w) = $\frac{10}{30}$ × (6m + 30w)
 - \Rightarrow 1 m = 1 w

Let D days to finish the work

$$\frac{12}{20}$$
 × (10m + 10w) = $\frac{D}{120}$ × (16m + 8w)

$$\Rightarrow \frac{12}{20} \times 20 \text{ m} = \frac{D}{120} \times 24 \text{ m}$$

- D = 60 days
- 108. (B)

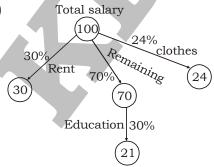


- :. Speed of the fastest swimmer =
 - = 40 km/h

109. (C) Leak
$$\longrightarrow$$
 6 \longrightarrow 4 \longrightarrow 109. L + Fill \longrightarrow 8 \longrightarrow 24 \longrightarrow 3

F = 1, Time = 24 hr

- $1 \min \rightarrow 4 \text{ litre}$
- \therefore capacity of tank = $4 \times 60 \times 24$
- = 5760 litre
- 110. (C)



Total spend money = 30 + 21 + 24 = 75

- Remaining salary = (100 75) = 25According to the question
- 25 unit \rightarrow 2500

1 unit
$$\rightarrow \frac{2500}{25} = 100$$

- Total salary = 100 × 100 = ₹ 10,000
- 111. (D) Worth of house for A = ₹ 10,000

Cost price of house for B =
$$\frac{10,000 \times 115}{100}$$

New cost price for A =
$$\frac{11500 \times 85}{100}$$

Total profit = (11500 - 10000) + (10000 - 9975)= 1500 + 225 = ₹ 1725

percentage gain =
$$\frac{1725}{10000} \times 100 = 17.25\%$$

112. (B) $\frac{6}{4} = \frac{h}{50}$ (Assuming 'h' be the height of

$$\Rightarrow h = \frac{50 \times 6}{4} = 75 \text{ feet}$$

113. (C) $7 \times 8 : 9 \times y$

(y is the number of months for which B

$$\Rightarrow \frac{7 \times 8}{9 \times y} = \frac{8}{9}$$

$$\Rightarrow \frac{56}{9u} = \frac{8}{9} \Rightarrow \frac{7}{u} = \frac{1}{1}$$

- $\therefore y = 7 \text{ months}$
- 114. (A) If the HCF = H, then

$$\dot{L}\dot{C}M = 44 H$$

$$\Rightarrow$$
 45 H = 1125

$$\therefore H = \frac{1125}{45} = 25$$

$$\therefore$$
 LCM = 44 × 25 = 1100

1st number \times 2nd number = LCM \times HCF \Rightarrow 25 × 2nd number = 1100 × 25

$$\therefore \text{ Second number} = \frac{1100 \times 25}{25} = 1100$$

115. (B) The total interest for the two consecutive periods of six month each would be

$$= \left(\frac{6}{2} + \frac{6}{2} + \frac{\frac{6}{2} \times \frac{6}{2}}{100}\right) \%$$



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$$= \left(3 + 3 + \frac{3 \times 3}{100}\right)\%$$

i.e. 6.09% of the sum

Hence, the amount to be paid after one year would be (100 + 6.09)%

i.e. 106.09% of the sum

:. Required amount

=
$$\frac{9000 \times 106.09}{100}$$
 = ₹ 9548.10

- 116. (A) Train covers 84 m length of platform in 21 9 = 12 sec.
 - ∴ speed of the train = $\frac{84}{12}$ = 7 m/sec

$$= 7 \times \frac{18}{5} \text{ km/hr} = 25.2 \text{ km/hr}$$

117. (A) A
$$\longrightarrow$$
 10 days 6 units/day
B \longrightarrow 15 days 60 Total work

$$C \longrightarrow 20 \text{ days}$$
 days $\frac{3 \text{ units}}{\text{/day}}$

ATQ,

$$(6 + 4 + 3)$$
units = ₹ 6500

1 unit = ₹ 500

Share of B = 500 × 4 = ₹ 2000

118. (D) Let the cost price of buffalo = ₹ x

$$Profit = (720 - x)$$

Loss = (x - 510)

According to the question,

$$2(720 - x) = (x - 510)$$

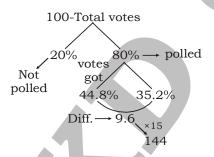
$$\Rightarrow 1440 - 2x = x - 510$$

$$\Rightarrow$$
 3 x = 1950

$$\Rightarrow$$
 $x = 650$

∴ CP of the buffalo = ₹ 650

119. (D) Let the no. of voters be 100 ATQ,



 \therefore Total voters = 100 \times 15 = 1500

120. (C) Let the original fraction be $\frac{x}{y}$ then,

$$\frac{x \times 132\%}{y \times 175\%} = \frac{12}{25}$$

$$\therefore \frac{x}{y} = \frac{12}{25} \times \frac{175}{132} = \frac{7}{11}$$

- 121. (A) ax + by + c = 0
 - When c = 0,

$$ax + by = 0$$

$$by = -ax$$

$$\Rightarrow y = -\frac{a}{b}x$$

When x = 0, y = 0 i.e. this line passes through the origin (0, 0).

- 122. (B) $\sin 7x = \cos 11x$
 - $\Rightarrow \sin 7x = \sin (90^\circ 11x)$
 - $\Rightarrow 7x = 90^{\circ} 11x$
 - $\Rightarrow 18x = 90^{\circ}$
 - $\Rightarrow x = 5^{\circ}$
 - \therefore tan $9x + \cot 9x$
 - $= \tan 45^{\circ} + \cot 45^{\circ}$
 - = 1 + 1 = 2
- 123. (A) Copper: Zinc 4: 3

$$Copper = \frac{4}{7} \times 63 = 36 \text{ kg}$$

Zinc =
$$\frac{3}{7} \times 63 = 27 \text{ kg}$$

Let x kg copper is extracted Remaining copper = 36 - x kg

New ratio =
$$\frac{10}{9}$$

$$\Rightarrow \frac{Cu}{Zn} = \frac{10}{9}$$

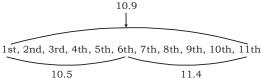
$$\Rightarrow \frac{36-x}{27} = \frac{10}{9}$$

$$\frac{36-x}{3}=\frac{10}{1}$$

$$36 - x = 30$$

$$x = 6 \text{ kg}$$

124. (A)



Total of 11 no. = $10.9 \times 11 = 119.9$ Total of first six numbers = $10.5 \times 6 = 63.0$ Total of last six numbers = $11.4 \times 6 = 68.4$ Total of 12 numbers = 63.0 + 68.4 = 131.4 \therefore 6th number = 131.4 - 119.9 = 11.5

125. (C) A : B
Ratio of speed \rightarrow 6 : 5 \therefore Ratio of time \rightarrow 5 : 6

after 1 unit



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ATQ,

But, given that, B reach after 1 hr 15 min

$$=\frac{5}{4}$$
 hrs

i.e. 1 unit
$$\longrightarrow \frac{5}{4}$$

$$\therefore \quad 6 \text{ unit} \longrightarrow \frac{5}{4} \times 6 = \frac{15}{2}$$

 \therefore B reached the destination in $\frac{15}{2}$ hours

= 7 hours 30 minutes

126. (C) A
$$\longrightarrow$$
 24 20
B \longrightarrow 32 15 480
C \longrightarrow 60 8 Total unit of work

According to question,

Total work done = 258 + 46 = 304 units Remaining work = 480 - 304 = 176 units

Required time =
$$\frac{176}{8}$$
 = 22 days

127. (B) According to the question,

$$∴ CP = \frac{1200}{120} \times 100 = ₹ 1000$$

$$SP = 1200 \times \frac{(100 - 10)}{100} = \text{ } 1080$$

percentage profit = $\frac{80}{1000} \times 100 = 8\%$

128. (B) A's single equivalent discount

$$= \left(25 + 15 - \frac{25 \times 15}{100}\right)\% = (40 - 3.75)\%$$

= 36.25%

B's single equivalent discount

$$= \left(10 + 30 - \frac{10 \times 30}{100}\right) = (40 - 3)\% = 37\%$$

C's discount = 36%

Hence B's scheme is the best for customer.

129. (C) x = 0.5 and y = 0.2 (Given)

$$\therefore \sqrt{0.6} \times (3y)^{x} = \sqrt{0.6} \times (3 \times 0.2)^{0.5}$$

$$= \sqrt{0.6} \times (0.6)^{\frac{1}{2}}$$
$$= \sqrt{0.6 \times 0.6} = 0.6$$

 \therefore \angle AED = \angle PDC = 34° (corresponding angle)

$$\therefore \angle DEF = 180^{\circ} - 78^{\circ} - 34^{\circ} = 68^{\circ}$$

·· QD||EF

 \therefore \angle PDQ = \angle DEF = 68° (corresponding angle)

131. (C) Area of the base = $\frac{1}{2}$ (sum of parallel sides) × perpendicular distance

$$=\frac{1}{2}(14+8) \times 8 = 88 \text{ sq. cm}$$

∴ Volume = Area of the base × height \Rightarrow 1056 = 88 × h

$$h = \frac{1056}{88} = 12 \text{ cm}$$

132. (D)
$$x^2 + \frac{1}{x^2} = 2\sin\left(\frac{\pi x}{2}\right)$$

$$\Rightarrow \left(x - \frac{1}{x}\right)^2 + 2 = 2\sin\left(\frac{\pi x}{2}\right)$$

$$\Rightarrow x - \frac{1}{x} = 0$$

 $[\because \sin\theta \leq 1]$

133. (C) a + b + c = 0

$$\Rightarrow a+b=-c$$
; $b+c=-a$; $c+a=-b$

$$\therefore \frac{a+b}{c} + \frac{b+c}{a} + \frac{c+a}{b}$$

$$= -1 - 1 - 1 = -3$$

$$\frac{a}{b+c}\,+\,\frac{b}{c+a}\,+\,\frac{c}{a+b}$$

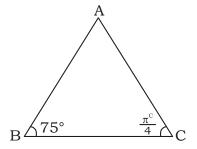
$$= -1 - 1 - 1 = -3$$

 \therefore Expression = $(-3) \times (-3) = 9$

134. (C)
$$\frac{24600}{\frac{20}{21} + \frac{400}{441}} = \frac{24600 \times 441}{820} = ₹ 13230$$

135. (B) $\angle ABC = 75^{\circ}$

[: $180^{\circ} = \pi \text{ radian or } \pi^{\text{C}}$]



$$75^{\circ} = \frac{\pi}{180} \times 75 = \frac{5\pi}{12} \text{ radian}$$

$$\therefore \angle BAC = \pi - \frac{\pi}{4} - \frac{5\pi}{12}$$

$$=\frac{12\pi - 3\pi - 5\pi}{12} = \frac{4\pi}{12}$$

$$=\frac{\pi}{3}$$
 radian

136. (D)
$$x^{\frac{1}{3}} = y^{\frac{1}{4}}$$

$$\Rightarrow \left(x^{\frac{1}{3}}\right)^{12} = \left(y^{\frac{1}{4}}\right)^{12}$$

$$\Rightarrow x^4 = y^2$$

$$\Rightarrow x^4 = y^3$$

$$\Rightarrow (x^4)^5 = (y^3)^5$$

$$\Rightarrow x^{20} = y^{15}$$

$$\Rightarrow x^{20} = y^{15}$$

137. (A)
$$\sec^2\theta - \frac{\sin^2\theta - 2\sin^4\theta}{2\cos^4\theta - \cos^2\theta}$$

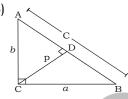
$$= \sec^2\theta - \frac{\sin^2\theta(1 - 2\sin^2\theta)}{\cos^2\theta(2\cos^2\theta - 1)}$$

$$= \sec^2\theta - \frac{\sin^2\theta(1 - 2(1 - \cos^2\theta))}{\cos^2\theta(2\cos^2\theta - 1)}$$

$$= \sec^2\theta - \tan^2\theta \, \frac{(2\cos^2\theta - 1)}{2\cos^2\theta - 1}$$

$$= \sec^2\theta - \tan^2\theta = 1$$

138. (B)



∴ ΔBDC ~ ΔACB

$$\therefore \frac{\mathrm{CD}}{\mathrm{AC}} = \frac{\mathrm{BC}}{\mathrm{AB}}$$

$$\Rightarrow \frac{p}{h} = \frac{a}{c}$$

$$\Rightarrow$$
 pc = ab

$$\Rightarrow p\sqrt{a^2+b^2} = ab$$

$$\Rightarrow$$
 p²($a^2 + b^2$) = a^2b^2

$$\Rightarrow \frac{1}{n^2} = \frac{a^2 + b^2}{a^2 b^2}$$

$$\Rightarrow \frac{1}{p^2} = \frac{1}{a^2} + \frac{1}{b^2}$$

139. (A) Given,
$$x + \frac{2}{x} = 1$$

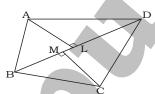
Expression

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

(Dividing numerator and denominator by x)

$$= \frac{x + \frac{2}{x} + 1}{x(1 - x)} = \frac{1 + 1}{x \times \frac{2}{x}} = \frac{2}{2} = 1$$

140. (D)



Area of quadrilateral ABCD

= Area of ΔABD + Area of ΔBCD

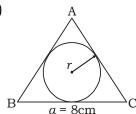
$$= \frac{1}{2} \times BD \times AL + \frac{1}{2} \times BD \times CM$$

$$=\frac{1}{2}\times BD(AL + CM)$$

$$= \frac{1}{2} \times 64(13.2 + 16.8)$$

$$=\frac{1}{2} \times 64 \times 30 = 960 \text{ sq. cm}$$

141. (B)



Area of triangle = $\frac{\sqrt{3}}{4}a^2$

$$=\frac{\sqrt{3}}{4}\times8\times8=16\sqrt{3}\text{ cm}^2$$

radius of in circle = $r = \frac{a}{2\sqrt{3}} = \frac{8}{2\sqrt{3}} = \frac{4}{\sqrt{3}}$

Area of inscribed circle = πr^2

$$=\pi\left(\frac{4}{\sqrt{3}}\right)^2=\frac{22}{7}\times\frac{16}{3}$$



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$$\therefore \text{ Required area} = \left(16\sqrt{3} - \frac{22 \times 16}{21}\right)$$

$$=\frac{16}{21}(21\times 1.732-22)$$

$$= \frac{16}{21}(17.372) = 10.95 \text{ cm}^2$$

142. (C)
$$\angle A + \angle B + \angle C = 180^{\circ}$$

 $\Rightarrow \angle C = 180^{\circ} - (\angle A + \angle B)$
 $\Rightarrow \angle C = 180^{\circ} - (80^{\circ} + 60^{\circ}) = 40^{\circ}$

$$\Rightarrow 2x = 40^{\circ}$$

$$\Rightarrow x = 20^{\circ}$$

$$(: C = 2x)$$

$$\therefore y = 90^{\circ} + \frac{1}{2} \angle A$$

$$=90^{\circ} + \frac{1}{2}(80) = 130^{\circ}$$

143. (C)
$$\angle BAC = \angle BDC = 30^{\circ}$$

(∵ made by same arc BC)

In ΔABC,

$$\angle x = 180^{\circ} - (100 + 30^{\circ}) = 50^{\circ}$$

cone Ratio of volume 64 1

Ratio of (height $\sqrt[3]{64} = 4$ $\sqrt[3]{1} = 1$

/radius/slant height)

i.e. 4 unit represent = 40

 \Rightarrow 4 unit = 40 cm

∴ 1 unit =
$$\frac{40}{4}$$
 = 10 cm

 \therefore Required height = h = 40 - 10

= 30 cm

145. (B)
$$\left[\sqrt[3]{6\sqrt{5^9}} \right]^4 \left[\sqrt[6]{3\sqrt{5^9}} \right]^4$$

$$= \left[5^{9 \times \frac{1}{6} \times \frac{1}{3}} \right]^4 \left[5^{9 \times \frac{1}{6} \times \frac{1}{3}} \right]^4$$

$$= \left[5^{\frac{1}{2} \times 4} \right] \left[5^{\frac{1}{2} \times 4} \right]$$

$$= 5^2 \times 5^2 = 5^4$$

146. (C) Percentage decrease =
$$\left(\frac{6-5}{6} \times 100\right)\%$$

$$=\frac{50}{3}\% = 16\frac{2}{3}\%$$

147. (B) Required ratio = 2:6=1:3

148. (A) Required Average sell

$$= \left(\frac{3+4+10+6+6}{5}\right) crore$$

$$=\frac{29}{5}$$
 = 5.8 crore

149. (D) Percentage increase

$$= \frac{10-4}{4} \times 100 = 150\%$$

150. (B) Required total sell = (10 + 6 + 6 + 5) crore

= 27 crore









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MEANINGS IN ALPHABETICAL ORDER

I V.	MEANINGS IN ALPHABETICAL OR	DEK
Word	Meaning in English	Meaning in Hindi
Ablution	Ritual washing	धार्मिक स्नान
Aborigines	People who were the original	आदिवासी जातियाँ
	people living in a country	•
Befuddled	Perplexed by many conflicting situations or statements	भ्रमित
Bevy	A group of girls (especially when gathered close together	लड़िकयों का झुंड
Dov1	on the ground)	ਜੇ ਕ ਹ ਰੇ ਦਵਰੇ
Boughs	Any of the larger branches of a tree	पेड़ की टहनी हास्य चित्र
Caricatures	A funny drawing or picture of somebody that exaggerates some of his features	राष्ट्र । पत्र
Codify	Organize into a code or system, such as a body of law	विधिबद्ध करना
Communique	An official report (usually sent in haste)	अधिकारिक, निवेदिका
Crestfallen	Sad and disappointed because of failure	निराश, हतोत्साहित
Defiance	Intentionally contemptuous behavior or attitude	अनादर
Desertion	Withdrawing support or help despite allegiance or responsibility	परित्याग
Emboss	To put a raised design or piece of writing on paper, leather, etc.	नक्काशी करना
Excursion	A short journey made for pleasure, especially one that	पर्यटन, सैर
	has been organized for a group of people	
Exodus	A situation in which many people leave a place at	लोगो की एक बड़ी संख्या क
	the same time	किसी विषम परिस्थिति से कूच
		करना
Expedition	A journey organized for a particular purpose	अभियान ———
Incessant	Never stopping	लगातार
Indignant	Angered at something unjust or wrong	क्रोधित सन्तेन्य
Inebriated	Stupefied or excited by a chemical substance (especially alcohol)	
Insatiable	Impossible to satisfy	जो तृप्त न हो, अतिलोभी
Intoxicated	As if under the influence of alcohol	नशे में धुत्त या नशे में मस्त
Irreconcilable	So different that agreement is not possible The sound of a hell rung slowly to appear a death	बेमेल शोक समक घंने की ध्वनि
Knell	The sound of a bell rung slowly to announce a death or a funeral or the end of something	शोक सूचक घंटे की ध्वनि
Mud-slinging	The act of criticizing somebody and accusing them of	निंदा
	something in order to damage their reputation	
Oblation	The act of contributing or offering funds	भिक्षा, धर्मदान
Omnibus	Providing for many things at once	बहुप्रयोजन
Parasol	A large umbrella that is used for example on beaches or	बड़ी छतरी
<u></u>	outside restaurants to protect people from hot sun	
Parochial	Narrowly restricted in outlook or scope	संकुचित, सीमित
Parvenu	A person from a low social or economic position who has suddenly become rich or powerful	नवधनाढ्य
Pernicious	Exceedingly harmful	हानिकारक
Personnel	The people who work for an organization or one of the armed forces	
Persuaded	To make somebody do something by giving them good	मनाना, समझाना
2 22 2 4 4 4 4 4	reasons for doing it	,
Pragmatic	Concerned with practical matters	व्यावहारिक
Preconceive	Conceive beforehand	पहले से राय बना लेना
Premonition	An early warning about a future event, a feeling of evil to come	
Reveille	Signal to wake up	जेगाने का बिगुल
Riddle	A difficult problem	पहेली
	Adhering to moral principles	सच्चाई, नेकी
Serenity	The absence of mental stress or anxiety	शान्ति
Slander	An abusive attack on a person's character or good name	बदनामी
Soprano	Having or denoting a high range in singing	उच्चतम स्वर में गायन
Stroll	Walk leisurely and with no apparent aim	चहल कदमी
Triumphant	Joyful and proud especially because of triumph or success	प्रफुल्लित स्पांनी
Vainglorious	Too proud of your own abilities or achievements	घमंडी
Wear out	Exhaust or get tired through overuse or great strain or stress	
W MOOIE	IN TRAISE AND THEN VOLLE DOOR OF hart of it with dilick chort movements	ב אוזוז מאו למו דומו דווקידו

Wriggle

To twist and turn your body or part of it with quick short movements शरीर को टेढ़ा मेढ़ा मोड़ना



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CPO MOCK TEST - 28 (ANSWER KEY)

1. (D)	26. (C)	51. (B)	76. (C)	101. (A)	126. (C)	151. (B)	176 (0)
2. (C)	27. (B)	52. (D)	77. (B)	102. (C)	127. (B)	151. (D) 152. (C)	176. (C)
3. (D)	28. (A)	53. (C)	78. (D)	103. (C)	128. (B)	152. (C)	177. (A)
4. (B)	29. (C)	54. (C)	79. (A)	104. (B)	129. (C)	154. (C)	178. (B) 179. (D)
5. (C)	30. (B)	55. (C)	80. (B)	105. (B)	130. (A)	155. (B)	179. (D) 180. (A)
6. (C)	31. (C)	56. (B)	81. (B)	106. (A)	131. (C)	156. (D)	180. (A) 181. (D)
7. (C)	32. (B)	57. (A)	82. (A)	107. (B)	132. (D)	157. (B)	181. (D) 182. (C)
8. (C)	33. (D)	58. (B)	83. (C)	108. (B)	133. (C)	158. (B)	182. (C)
9. (C)	34. (C)	59. (B)	84. (A)	109. (C)	134. (C)	159. (C)	184. (C)
10. (A)	35. (D)	60. (A)	85. (D)	110. (C)	135. (B)	160. (C)	185. (D)
11. (D)	36. (C)	61. (A)	86. (B)	111. (D)	136. (D)	161. (B)	186. (C)
12. (B)	37. (C)	62. (B)	87. (D)	112. (B)	137. (A)	162. (C)	187. (B)
13. (A)	38. (C)	63. (A)	88. (A)	113. (C)	138. (B)	163. (C)	188. (A)
14. (A)	39. (A)	64. (D)	89. (A)	114. (A)	139. (A)	164. (C)	189. (A)
15. (C)	40. (D)	65. (A)	90. (B)	115. (B)	140. (D)	165. (A)	190. (A)
16. (A)	41. (B)	66. (C)	91. (C)	116. (A)	141. (B)	166. (B)	191. (A)
17. (B)	42. (A)	67. (C)	92. (C)	117. (A)	142. (C)	167. (C)	192. (B)
18. (A)	43. (D)	68. (B)	93. (D)	118. (D)	143. (C)	168. (C)	193. (B)
19. (B)	44. (D)	69. (A)	94. (B)	119. (D)	144. (B)	169. (B)	194. (B)
20. (C)	45. (D)	70. (D)	95. (C)	120. (C)	145. (B)	170. (A)	195. (C)
21. (A)	46. (C)	71. (A)	96. (D)	121. (A)	146. (C)	171. (C)	196. (D)
22. (A)	47. (C)	72. (C)	97. (D)	122. (B)	147. (B)	172. (D)	197. (A)
23. (A)	48. (C)	73. (C)	98. (A)	123. (A)	148. (A)	173. (C)	198. (C)
24. (D)	49. (A)	74. (C)	99. (D)	124. (A)	149. (D)	174. (A)	199. (B)
25. (D)	50. (C)	75. (B)	100. (C)	125. (C)	150. (B)	175. (D)	200. (C)

- 151. (B) 'Hung' is the correct word, which means 'to bend or let something bend downwards'.
- 152. (C) Add 'the' before 'Deadline' which means 'a definite point in time by which something must be done'.
- 153.(C)
- 154. (C) Change part (C) into 'he now dreams of visiting the moon'. Here, we must address a noun
- to become subject of the first part otherwise, the sentence will give a wrong meaning.
- 155. (B) Change 'he would have been surprised' into 'he would be surprised'.

The formula is- Sub + were + obj, sub + would + V_1 + obj.



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