

53. (B) Shivasamudram holds the distinction of being the site of India's first hydro-electric

59. (A) The human heart has four chambers, two superior atria and two inferior ventricles. The atria are the receiving

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chambers and the ventricles are the discharging chambers.

- 61. (C) Headquarters of World Health Organisation are situated at Geneva. Regional offices: Alexandria, Brazzaville, Copenhagen, Manila, New Delhi and Washington.
- 62. (A) Jeev Milkha Singh is a golf player.
- 65. (A) Remote sensing is the acquisition of information about an object or phenomenon without making physical contact with the object. In modern usage, the term generally refers to the use of aerial sensor technologies to detect and classify objects on Earth by means propagated signals (e.g. electromagnetic radiation emitted from aircraft or satellites).
- 67. (A) Pulicat Lake: It is the second largest brackish water lake or lagoon in India which straddles the border of Andhra Pradesh and Tamil Nadu states on the Coromandal Coast in South India.

Chilka Lake: It is a brackish water lagoon, spread over the Puri, Khurda and Ganjam districts of Odisha.

Wular Lake: India's largest fresh water lake and one of the largest in Asia, located in Bandipora district in Jammu and Kashmir. Sambhar Lake: India's largest inland salt lake in south west of Jaipur and north east of Ajmer along National Highway-8 in Rajasthan.

- 69. (C) The notices of cut motions can be tabled after the presentation of Railway/General Budget. The Speaker shall decide whether a cut motion is or is not admissible and may disallow any cut motion when it is in his opinion. It is an abuse of the right of moving cut motions or is calculated to obstruct and prejudicially it affect the procedure of the House or it is in contravention of these rules.
- (B) Abdul Gaffar Khan is known as Frontier Gandhi. Dadabhai Naoroji is referred to as the Grand Old Man of India.

Madan Mohan Malaviya is called Mahamana. Vallabhbhai Patel is known as Strong Man of India.

71. (B) Simon Commission was primarily boycotted because it had no Indian members. The commission was a group of seven British Members of Parliament that had been dispactched to India in 1927 to study constitutional reform in India.

- 74. (C) Acquired Immuno Deficiency Syndrome (AIDS) was first reported in 1981 in San Francisco and New York. However, it was in 1983-84 that the causative virus was isolated from patients of AIDS and was named HIV in 1986.
- 76. (A) The main constituent of alcohol is Ethanol and the concentration of ethanol in a sample can be determined by back titration with acidified potassium dichromate. Reaching the sample with an excess of potassium dichromate, all ethanol is oxidized to acetic acid. One major application for this reaction is in old police breathalyzer tests. When alcohol vapour makes contact with the yellow dichromatecoated crystals, the colour changes from yellow to green. The degree of the colour change is directly related to the level of alcohol in the suspect's breath.
- 78. (D) This phenomenon is because of refraction of light. The lines of sight intersect at a higher position than where the actual rays originated. This causes the water to appear shallower than it really is.
- 79. (A) Consumer sovereignty means that buyers ultimately determine which goods and services remain in production. In unrestricted markets, those with income or wealth are able to use their purchasing power to motivate producers. So, ultimately it means how the consumers want to spend their incomes.
- 80. (A) According to the latest figures released by Government - Goa leads the country with per capita income of ₹ 1,92,652/-, while Bihar has the lowest with a per capita income of only ₹ 24,681/-. An average Goa people earns 6 times more than an average Bihari.
- 81. (A) A black body is an idealized physical body that absorbs all incident electromagnetic radiation, regardless of frequency or angle of incidence. Another property is roughness. Sand is rough and black and so it is a good absorber.
- (B) Synthetic detergents are made from sodium salt of benezene sulphonic acid.
- 83. (C) The body needs access to iron to produce red blood cells. A lack of iron can lead to anaemia. Vitamin a has an essential role in vision (especially night vision), normal

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bone growth, reproduction and the health of skin and mucous membranes. It also acts as an antioxidant, protecting the body from harmful free radicals which may help to reduce the risk of certain forms of cancer. Vitamin C is needed for normal growth and development, growth and repair of tissues within the body, formation of collagen, cartilage, bones and teeth and wound healing. A deficiency can result in scurvy. This cause muscle weakness, joint pain and problems with wound healing. It can also lead to loose teeth, bleeding and swollen gums, easily bruised skin and fatigue and sometimes depression. Having too little calcium in the diet increases risk of a hormone condition that can cause bone fractures and kidney stones. Primary hyperparathyroidism (PHPT) affects around one in 800 people during their lifetime and is most common in the post-menopausal women.

- 84. (A) The epicenter is the point on the Earth's surface that is directly above the hypocenter or the focus, the point where an earthquake or underground explosion originates. In the case of earthquakes, the epicenter is directly above the point where the fault begins to rupture and in most cases, it is the area of greatest damage. However, in larger events, the length of the fault rupture is much longer and damage can be spread across the rupture zone.
- 85. (D) In concept social justice is very well articulated in the Constitution of India (1950). The Preamble of our Constitution use the term 'social justice - social, economic and political, the equality of status and opportunity is provided by the Constitution makers for futuristic development of the country.
- 86. (C) It was written by Mohammad Iqbal and published on August 16, 1904 in the weekly journal Ittehad. It became an anthem of opposition to the British rule in India.
- 87. (B) The Constitution declares India to be a sovereign, socialist, secular democratic republic, assuring its citizens of justice, equality and liberty and endeavours to promote fraternity among them. The words "socialist" and "secular" were added to the definition in 1976 by the 42<sup>nd</sup> constitutional amendment. The word 'secular', though

was specifically added in the Preamble in the year 1976, yet the original spirit of the Constitution was completely secular in nature. Its insertion into the Preamble has ensured that secularism has now become a source from which the constitutional provisions on secularism draw their authority and it has now become the central object which the Constitution seeks to establish. It is also one of the basic structures of our Constitution and no compromise can be made on this by any government.

- 88. (B) In the 16the century, a major road running across the Gangetic plain was built a fresh by Pashtun emperor Sher Shah Suri, who then ruled much of northern India. His intention was to link together the remote provinces of his vast empire for administrative and military reasons. The Sadak-e-Azam (great road) as it was then known is universally recognized as having been the precursor of the Grand Trunk Road. The road was initially built by Sher Shah to connect Agra, his capital, with Sasaram, his hometown. It was soon extended westward to Multan and eastward to Sonargaon in Bengal (now in Bangladesh).
- 89. (B) Energy enters an ecosystem by being used to convert low-energy carbon dioxide into high-energy carbohydrate, then passes through one or more of the organisms of the community and is then lost to the ecosystem. Eventually, all of the energy that enters the ecosystem is lost in the form of heat.
- 90. (A) Dr. Ambedkar attended all the three Round Table Conferences in London and each time, forcefully projected his views in the interest of the 'untouchable'. He exhorted the downtrodden sections to raise their living standards and to acquire as much political power as possible. He was of the view that there was no future for untouchables in the Hindu religion and they should change their religion if it is needed. In 1935, he publicly proclaimed, "I was born a Hindu because I had no control over this but I shall not die a Hindu".
- 91. (B) Kosi is known as the "Sorrow of Bihar", as it has caused widespread human suffering in the past due to flooding and very



frequent changes in course, when it flows from Nepal to Bihar. Over the last 250 years, the Kosi River has shifted its course over 120 km from east to west. Its unstable nature has been attributed to the heavy silt it carries during the monsoon season and flooding in India has extreme effects.

- 92. (B) Full employment refers to a situation in which every able bodied person who is willing to work at the prevailing rate of wages is employed. It implies absence of involuntary unemployment which occurs when those who are willing to work at the going wage rate do not get work.
- 93. (B) Electric fuse wire is an alloy made of tin (63%) & lead (37%). The cross sectional area determines the melting point at a certain current. Alloys (e.g. tin/lead) are used due to their 'eutectic' action i.e. the resulting combination of good conductivity (due to the tin) with a low melting point due to the lead.
- 94. (D) The most basic kind of soap is made from caustic soda and animal fat. The two are heated together and then cooled. The process is called "saponification". In technical terms, saponification involves base (usually caustic soda NaOH) hydrolysis of triglycerides, which are esters of fatty acids, to form the sodium salt of a carboxylate.
- 95. (A) The viruses are adaptable and versatile with many variations worldwide and they reproduce within the cells of the immune system of infected people. Therefore virus collections are indispensable instruments in the development of a vaccine. Versatility is distinctive abilities and skills in productively managing a variety of situations. Adaptability is the amount of flexibility and versatility an individual has developed to respond to changing interpersonal situations and environmental requirements.
- 96. (D) In computer programming, an event handler is an asynchronous callback subroutine that handles inputs received in a program. Each event is a piece of application-level information from the underlying framework, typically the GUI toolkit. GUI events include key presses, mouse movement, action selections and timers expiring. Event handlers are a central concept in event-driven programming.

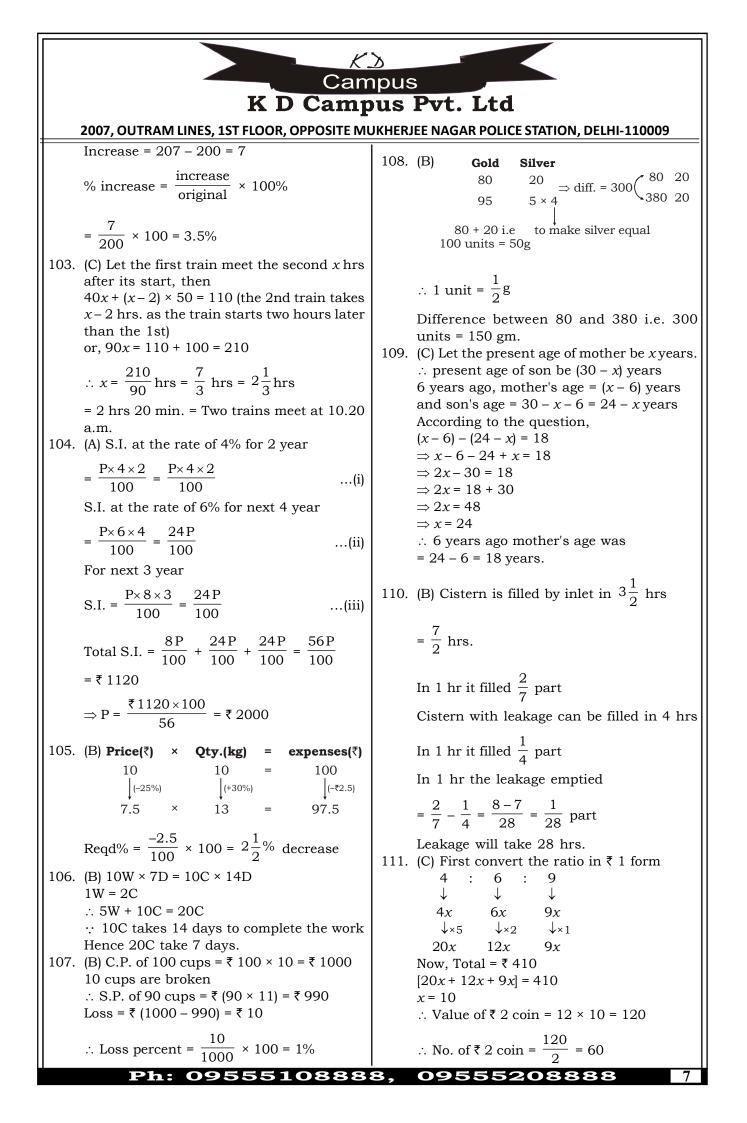
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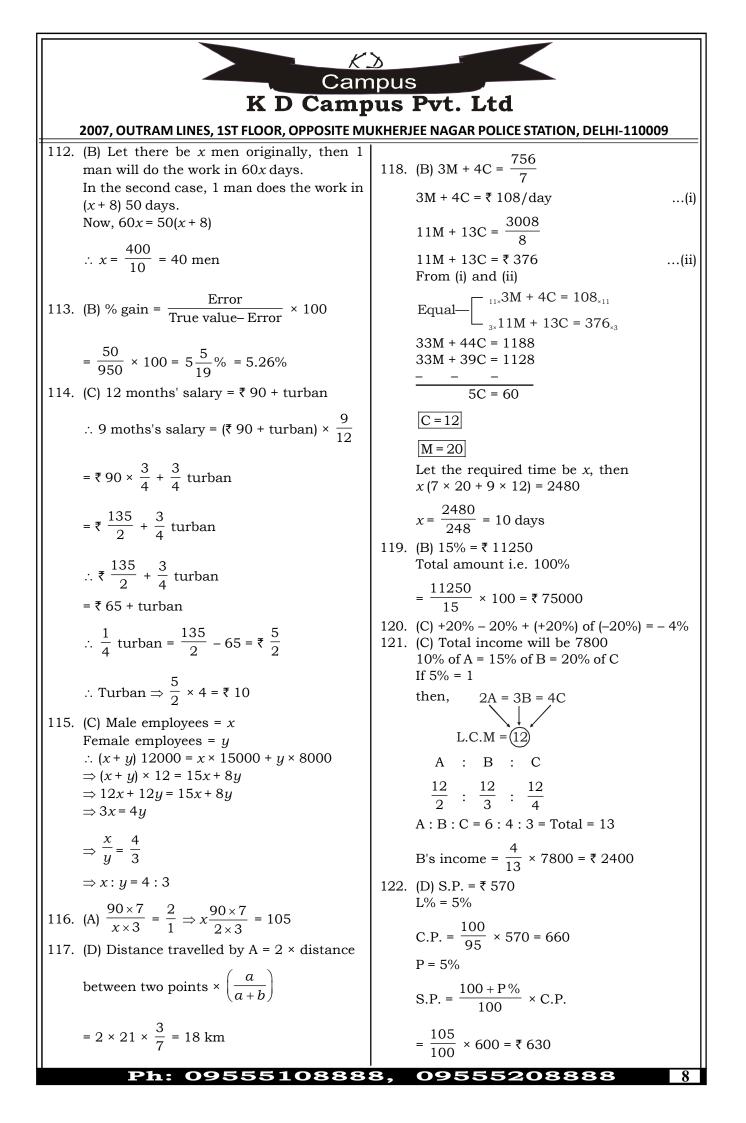
- 97. (B) The Delhi-Lahore Bus, officially known as Sada-e-Sarhad is a passenger bus service connecting the Indian capital of Delhi with the city of Lahore, Pakistan via the border transit post at Wagah. In its inaugural run on February 19, 1999, the bus carried the then Indian Prime Minister Atal Bihari Vajpayee, who was to attend a summit in Lahore and was received by his Pakistani counterpart, Nawaz Sharif at Wagah.
- 98. (C) Dadabhai Naoroji was a Member of Parliament (MP) in the United Kingdom House of Commons between 1892 and 1895 and the first Asian to be a British MP.
- 99. (C) Bhakra Dam is a concrete gravity dam across the Sutlej River and is near the border between Punjab and Himachal Pradesh in northern India. It is India's second tallest dam at 225.55 m high next to the 261 m Tehri Dam. In terms of storage of water, it withholds the second largest reservoir in India, the first being Indira Sagar Dam in Madhya Pradesh.
- 100. (B) The Battle of the Hydaspes was fought by Alexander the Great in 326 BC against King Porus of the Hindu Paurava kingdom on the banks of the Hydaspes River (Jhelum River) in the Punjab. The battle resulted in a complete Macedonian victory and the annexation of the Punjab. The battle is historically significant for opening up India for Greek political (Seleucid Empire, Indo-Greeks) and cultural influence (Greco-Buddhist art) which was to continue for many centuries.
- 101. (C) 1 day's work of 2(A + B + C)

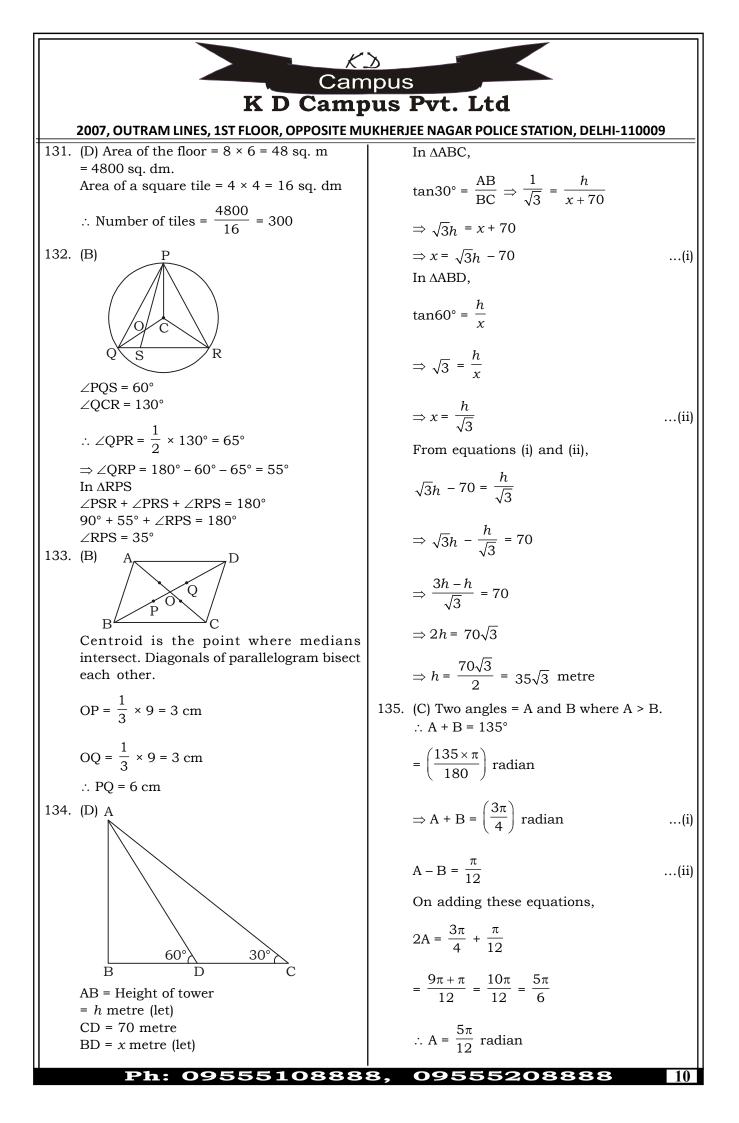
$$= \frac{1}{8} + \frac{1}{6} + \frac{1}{10}$$

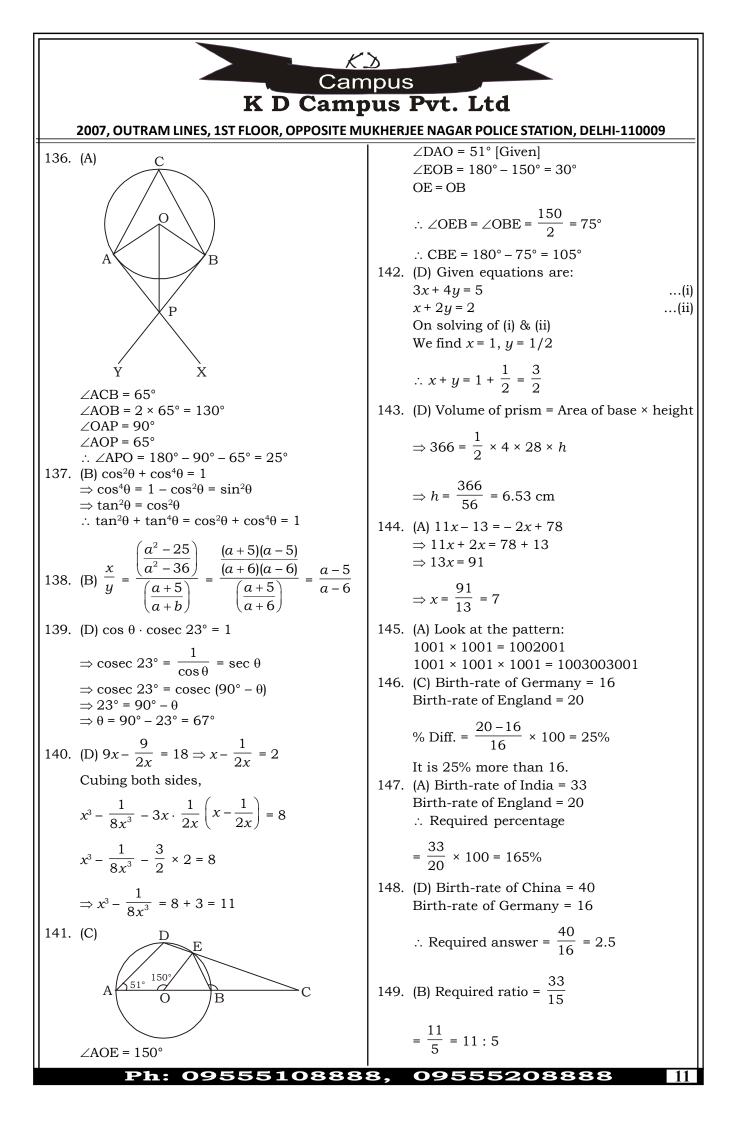
$$= \frac{15 + 20 + 12}{120} = \frac{47}{120} \text{ part}$$

$$A + B + C = 1 \text{ day's work} = \frac{1}{2} \times \frac{47}{120} \text{ part}$$
No. of days =  $\frac{120 \times 2}{47} = \frac{240}{47} = 5\frac{5}{47} \text{ days}$ 
102. (B)  $H_1 = 100$   $H_2 = 115$   
 $R_1 = 100$   $R_2 = 90$   
Curved surface area =  $2\pi rh$   
 $2\pi R_1 H_1$   $2\pi R_2 H_2$   
 $\Rightarrow 100 \times 100 \Rightarrow 115 \times 90$   
 $\Rightarrow 10,000 \Rightarrow 10350$   
 $\Rightarrow 200 \Rightarrow 207$ 











## **MEANINGS IN ALPHABETICAL ORDER**

Word	Meaning in English	Meaning in Hindi
Adapt	To change something in order to make it suitable for a new use or situation	अनुकूल करना
Adept	A person who is good at doing something that is quite difficult	: निपुण
Auspicious	Showing signs that something is likely to be successful in	शुभ
-	the future	5
Canoe	A light narrow boat which you move along in the water with a paddle	डोंगी
Demagogue	A political leader who tries to win support by using arguments based on emotion	जनोत्तेजक नेता
Dinghy	A small open boat that you sail or row	कश्ती
Divergent	Different, no longer similar	विभिन्न
Effected	Influenced or touched by an external factor	प्रभावित
Expedition	An organized journey with a particular purpose	अभियान
Flabbergasted	Extremely surprised and/or shocked	भौंचक्का
Frigate	A small fast ship in the navy that travels with other ships in order to protect them	लड़ाई का जहाज
Gauge	An instrument for measuring the amount or level of something	
Gullible	Too willing to believe or accept what other people tell you and therefore easily tricked	भोला–भाला
Impulsive	acting suddenly without thinking carefully about what might happen because of what you are doing	आवेगी
Invincible	Too strong to be defeated or changed	अपराजेय
Malicious	Having or showing hatred and a desire to harm somebody or hurt their feelings	द्वेषपूर्ण
Martinet	A very strict person who demands that other people obey orders or rules completely	कठोर अनुशासक
Naive	Lacking experience of life, knowledge or good judgement and willing to believe that people always tell you the truth	भोला–भाला
Narcissism	The habit of admiring yourself too much, especially your appearance	अहंकार, आत्ममोह
Pester	To annoy somebody, especially by asking them something many times	सताना
Pugnacious	Having a strong desire to argue or fight with other people	झगड़ालू
Redemption	The act of saving or state of being saved from the power of evil	उद्धार, छुटकारा
Rival	To be as good, impressive, etc. as somebody/something else	बराबरी करना
Sagacious	Showing good judgement and understanding	दूरदर्शी
Salvation	Deliverance from sin and its consequences	मोक्ष . ्
Tenacious	Determined	अटल, संलग्नशील
Unravelled	To start to fail or no longer stay together as a whole	उधेड़ना 
Venial	Not very serious and therefore able to be forgiven	मामूली गलती
Veracious	Speaking or representing the truth	सत्यप्रिय, सत्यवादी
Verger	A church officer who takes care of the interior of the building and acts as an attendant (carries the verge) during ceremonies	, पादरा क आग डण्डा लकर चलने वाला व्यक्ति

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# SSC MOCK TEST - 39 (ANSWER KEY)

				•		•	
1. (A)	26. (C)	51. (A)	76. (A)	101. (C)	126. (B)	151. (B)	176. (A)
2. (A)	27. (D)	52. (A)	77. (A)	102. (B)	127. (B)	152. (C)	177. (B)
3. (D)	28. (D)	53. (B)	78. (D)	103. (C)	128. (D)	153. (C)	178. (B)
4. (C)	29. (A)	54. (C)	79. (A)	104. (A)	129. (B)	154. (A)	179. (A)
5. (A)	30. (D)	55. (A)	80. (A)	105. (B)	130. (A)	155. (C)	180. (C)
6. (A)	31. (B)	56. (A)	81. (A)	106. (B)	131. (D)	156. (A)	181. (C)
7. (D)	32. (C)	57. (A)	82. (B)	107. (B)	132. (B)	157. (A)	182. (B)
8. (B)	33. (A)	58. (D)	83. (C)	108. (B)	133. (B)	158. (A)	183. (A)
9. (D)	34. (D)	59. (A)	84. (A)	109. (C)	134. (D)	159. (A)	184. (B)
10. (C)	35. (B)	60. (C)	85. (D)	110. (B)	135. (C)	160. (C)	185. (C)
11. (C)	36. (C) 37. (D)	61. (C)	86. (C)	111. (C)	136. (A)	161. (C)	186. (D)
12. (A)	38. (A)	62. (A) 63. (C)	87. (B) 88. (B)	112. (B) 113. (B)	137. (B) 138. (B)	162. (A) 163. (D)	187. (B) 188. (B)
13. (D) 14. (A)	39. (D)	63. (C) 64. (B)	оо. (Б) 89. (В)	113. (Б) 114. (С)	138. (Б) 139. (D)	163. (D) 164. (C)	188. (В) 189. (В)
15. (C)	40. (D)	65. (A)	90. (A)	114. (C) 115. (C)	140. (D)	165. (A)	199. (D) 190. (C)
16. (C)	41. (C)	66. (A)	91. (B)	116. (A)	141. (C)	166. (C)	190. (C) 191. (B)
17. (D)	42. (A)	67. (A)	92. (B)	117. (D)	142. (D)	167. (B)	191. (D) 192. (A)
18. (B)	43. (A)	68. (A)	93. (B)	118. (B)	143. (D)	168. (A)	193. (B)
19. (D)	44. (C)	69. (C)	94. (D)	119. (B)	144. (A)	169. (B)	194. (C)
20. (D)	45. (B)	70. (B)	95. (A)	120. (C)	145. (A)	170. (C)	195. (C)
21. (B)	46. (A)	71. (B)	96. (D)	121. (C)	146. (C)	171. (A)	196. (A)
22. (B)	47. (B)	72. (C)	97. (B)	122. (D)	147. (A)	172. (C)	197. (B)
23. (D)	48. (A)	73. (A)	98. (C)	123. (A)	148. (D)	173. (B)	198. (B)
24. (D)	49. (C)	74. (C)	99. (C)	124. (A)	149. (B)	174. (C)	199. (A)
25. (C)	50. (A)	75. (B)	100. (B)	125. (D)	150. (B)	175. (B)	200. (C)
	Mock 28	(Correction)					
	the ratio '8		s '8 : 15 : 20	D'			
	tioned in hir		1 4 1				
	n question: b² = 5 is	a-b=3	b = 4 the	n			
	the question	a = a = b = c	ah = 4 the	n			
	$b^2 = 5$ is		, ub + uic				
		(Correction)					
		•	-	4			
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Note:-	If your opi	nion diffe	rs regardii	ng any ans	wer, please	e message i	the mock
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