

Directions : (Question No. 10) Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

- 10. _ab_a_bab__bbabb_
 - (A) bbbbaa(B) ababbb

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- (C) aabaab
- (D) bbaaba
- 11. A series of figures is given which can be grouped into classes. From the responses, select the groups into which the figures can be classified :



(D) 369 257 142

Directions : (Question Nos. 12 to 15). A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

- 12. NOM, OPN, PQO, ? (A) RQP
 - (B) O Q P
 - (C) Q R P
 - (D) **RPO**

13. 62, 57, 68, 52, 74, 47, 80, <u>?</u>, <u>?</u> (A) 41, 83

- (B) 42,86
- (C) 43,85
- (D) 46,88





Directions : In Question Nos. **16** to **23**, select the related letters / word / number / figure from the given alternatives.

- **16.** den : lion : : coop : ?
 - (A) duck
 - (B) swan
 - (C) hen
 - (D) deer

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17. Anarchy : Lawlessness : : Anaemia : ?	21. 3:28::5:?
(A) Fearlessness	(1) 100
(B) Colourlessness	(-) 120
(C) Shapelessness	(C) 124 (D) 125
(D) Bloodlessness	22. $(23): 121 \cdots (43): 2$
(b) biodiessness	
18 0-11-1	(A) 89
18. Optician : Eyes : : Geriatric : ?	(B) 96
(A) Young	(C) 225 (D) 209
(B) Needy	(D) 209
(C) Old Age	23. Question Figure
(D) New Born	
19. BYDW : FUHS : : AZCX : ?	Answer Figures
(A) EVGT	
(B) FVGT	
(C) FVHT	(A) (B) (C) (D)
(D) EVHT	
	24. In a row of boys, Sachin is 21 st from the
20. BOQD : ERTG : : ANPC : ?	interchanging their places, Rahul becomes 17 th from right How means
(A) DQSF	boys are there in a row ?
(B) FSHU	(A) 36 (B) 38
(C) SHFU	(B) 38(C) 37
(D) DSQF	(D) 35
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- 25. A after arriving at a place of appointment on Sunday, found that he was 3 days earlier than 'B' who was 2 days late. If A had reached there on the following Thursday, how many days early or late would A have been ?
 - (A) 2 days early
 - (B) 2 days late
 - (C) 3 days late
 - (D) 4 days early
- 26. In a group of 26 persons, 15 like tea. while 18 like coffee, there is none who dislikes both. The number of persons who like both tea and coffee is
 - (A) 9
 - (B) 7
 - (C) 5
 - (D) 3

Directions : In Question No. 27 from the given alternatives, select the word which **cannot** be formed using the letters of the given word.

- 27. ENGINEERING
 - (A) GINGER
 - (B) ENGINE
 - (C) NEARER
 - (D) RING

Directions : In Question Nos. 28 to 30, select the missing number from the given alternatives.

28.	7	8	4	
	5	6	2	
	35	48	?	
	47	62	14	
	(A)	5		
	(B)	6		

(C) 7

(D) 8



32	(40)	12	
51	(36)	33	
67	(?)	55	
(A)	24		

(B) 20

(C) 18(D) 12

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- **31.** If 3 * 5 * 4 = 6, 2 * 7 * 5 = 7, 1 * 3 * 8 = 6, then what will be the value of 1 * 3 * 6 ?
 - (A) = 1
 - (B) 5
 - (C) 0
 - (D) 8
- 32. If stands for addition, + for division, \div for multiplication and \times for subtraction, then which of the following is correct?
 - (A) $0 \times 3 + 9 \div 4 2 = 15$
 - (B) $6 \div 3 9 \times 4 + 2 = 10$
 - (C) $6 + 3 \div 9 4 \times 2 = 20$
 - (D) $6 3 \times 9 + 4 \div 2 = 17$
- 33. Among the four answer figures, which one can be formed from the cut out pieces given below in the question figure ?



34. Directions : Four views of a cube are given below. Study each view and answer the question given below them.

Question Figures



Question : In Figure 1, which symbol is below the square ?

Answer Figures



35. How many triangles are there in the given question figure ?



(C) 12

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Directions : (Question No. 36) A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

36. Question Figures



37. A transparent sheet with a pattern is given. How the pattern would appear when the sheet is folded at the dotted lines ?

Question Figure



(B)

(C)

(D)

(A)

Directions : (Question No. 38) In the following diagram, rectangle represents Hindi Announcers, circle English Announcers, Square French Announcers and triangle represents German Announcers. Study the diagram.



- **38.** Which area represents those announcers who can present programmes in Hindi, French and German only ?
 - (A) 1
 - (B) 2
 - (C) 3
 - (D) 4
- **39.** Which of the following correctly illustrate the relationship among the classes :

Carrot, Food, Vegetable (A) (00)

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Directions : In Question Nos. **40** to **41**, which answer figure will complete the pattern in the question figure ?



Directions : In Question Nos. **42** to **43** from the given answer figures, select the one in which the question figure is hidden / embedded. **42.** Ouestion Figure







44. If the letters given below are arranged to form a sensible word, what will be the last letter of the word ?

LIBNARJ

- (A) R
- (B) L
- (C) N
- (D) J
- **45.** Sanjay is standing facing south. He walks 10 km straight, turns right and walks another 10 km straight, turns left and walks 10 km straight and, finally turns left and walks 5 km to reach a hotel. Which direction is he facing now?
 - (A) North
 - (B) South
 - (C) East
 - (D) West

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14 - Conta Cont		
46.	A and B start together from one point. They walk 10 km towards north. A turns left and covers 5 km whereas B turns right and covers 3 km. A turns left again and covers 15 km whereas B turns right and covers 15 km. How far is A from B?	Directions : In Question Nos. 49 and 50 , one / two statements are given followed by two conclusions / Assumptions I and II. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions / Assumptions, if any, follow from the given
	(A) 18 km	statements.
	(B) 10 km	49. Statements : 1. All players are educated.
	(C) 5 km	2. All educated are
		cultured So Conclusions : I. All players are
	(D) 8 km	cultured. II. All cultured persons
47.	If "PRICE" is coded as <u>11</u> 9 <u>18</u> <u>24</u> <u>22</u> , then HIGH is coded as	are players. (A) Only I follows. (B) Only II follows. (C) Both I and II follows. (D) Neither I nor II follows.
	(A) <u>19 20 18 19</u>	50. Statement : Education of the
	(B) <u>17 18 20 17</u>	masses leads to a steady loss of the
	(C) 8978	hold of caste in the society.
	(D) <u>19 18 20 19</u>	Assumptions : I. There is a direct relation between
		educational progress
48.	If 'EDUCATION' is coded as 2 D 5 C 1 T 3 4 N, how can 'AUTOMOBILE' be coded ?	and decline of casteism. II. Casteism can make considerable contribution to
	(A) 15T4M4B3L2	society.
	(B) 14T3M3B2L5	 (A) Only assumption I is implicit. (B) Only assumption II is implicit. (C) Path assumptions I is implicit.
	(C) 2U5O1O3I4E	(C) Both assumptions I & II are implicit.
	(D) 31T2M2B4L5	(D) Neither assumption I nor II is implicit.
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PART – II ENGLISH LANGUAGE

Directions : In Question Nos. 51 to 55, some of the sentences have errors and some have none. Find out which part of a sentence has an error and blacken the rectangle [\blacksquare] corresponding to the appropriate letter (A, B, C). If there is no error, blacken the rectangle [\blacksquare] corresponding to (D) in the Answer Sheet.

- 51. The Secretary and the Manager (A) goes to London next week. No error. (B) (C) (D)
- 52. <u>I suggest you to become an engineer.</u> (A) (B) (C) <u>No error.</u> (D)
- 53. <u>The courses in an autonomous college</u>
 (A)
 <u>are different from a non-autonomous college</u>
 (B)
 <u>because of the freedom allowed to</u>
 <u>an autonomous college.</u>
 (C)

No error. (D)

54. <u>The jury was unanimous</u> (A) (B) <u>in the Verdict. No error.</u> (C) (D)

55. <u>You will be suspended</u> <u>unless you</u> (A) (B) <u>do not pay your fees. No error.</u> (C) (D)

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Directions : In Question Nos. 56 to 60, sentences are given with blanks to be filled in with appropriate words. Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate rectangle **[100]** in the Answer Sheet.

- 56. He sat _____ the table, writing a letter.
 - (A) across
 - (B) over
 - (C) by
 - (Ď) at

57. My sister _____ me when I was ill.

- (A) called on
- (B) called out
- (C) called off
- (D) called in

58. The patient was so ____ by the soft music that he cooperated with the doctor in spite of acute pain.

- (A) carried over
- (B) carried away
- (C) carried on
- (D) carried out

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PART – II ENGLISH LANGUAGE

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- (C) carried on
- (D) carried out

18

	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	84. जब तक साहब नहीं आ जाते आप ग्रहण करें ।	88 यश
	2 · · · ·	(A) सुयश
	(A) आसन	(B) 'अपमान
	(B) आसन्न	(C) अपयश
	(C) बासन	(D) दुर्यश
	(D) राशन	(D) 344
		r ^{s a'} ba
	85. भविष्य के प्रति जागरूक विद्यार्थी रात-भर	89. कृतज्ञ
	05. नावच्य के प्रात जानरूक विद्यार्थ रात-भर रहते हैं ।	(A) कृपालु
· · · ·		(B) कठोर
	(A) जागते	
	(B) पढ़ते	and an and a second sec
10 A 10 10	(C) पड़ते	(D) कृतघ्न
	(D) लिखते	
•		90. प्रत्यक्ष
, 1 . , 1		(A) पीछे
	निर्देश : प्रश्न संख्या 86 से 90 में दिये हुए प्रत्येक शब्द	
- (* -) - (* -)	का विलोम चुनने के लिए चार विकल्प प्रस्तावित हैं । उचित विकल्प का चयन कीजिए तथा उत्तर-	(B) परोक्ष
	पुस्तिका में तदनुसार काला कीजिए ।	(C) परीक्ष्य
*	3	(D) सूक्ष्म
	86. उत्थान	
* .:		निर्देश : प्रश्न संख्या 91 से 95 में दिये हुए प्रत्येक शब्द
:	(A) स्थान	की वर्तनी के लिए चार विकल्प दिये गए हैं । इनमें
	(B) प्रस्थान	से केवल एक विकल्प में शब्द की शुद्ध वर्तनी है ।
	(C) वितान	उसे चुनिए तथा उत्तर-पुस्तिका में तदनुसार काला
	(D) पतन	कीजिए ।
	87. हस्व	91. आदरनीय
	(A) दीर्घ	(A) आदरनीय
	(B) स्थूल	An Multi and Annual
		(B) आदरणीय
	(C) लघु	(C) आदर्नीय
	(D) महत्तम	(D) आद्रणीय
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PART - III GENERAL AWARENESS 101. SQL in Computer Science stands for 106. Earth is protected from ultra-violet Sorted Query Language (A) radiation by means of (B) Structured Quick Language (A) Oxygen layer (C) Structured Query Language (B) Ozone layer (D) Structured Quick Launch (C) Nitrogen layer (D) Carbon dioxide layer 102. Which of the following is not a part of the processor of a computer ? 107. The highest policy-making body in (A) ALU national planning in India is (B) CU Administrative Reforms (A) (C) Registers Commission (D) RAM **(B) Finance** Commission Inter-State Council (C) 103. Rotation of crop is essential (D) National Development Council (A) for increasing the quantity of 108. Which one of the following is an minerals. **(B)** for increasing the quantity of example of fixed cost ? proteins. (A) Price of raw material for getting different kinds of (C) **(B)** Fuel and power charges crops. (C) Rent for building (D) for increasing the fertility of the (D) Wage for casual labour soil. 109. The principle of population was 104. The major component in CNG is propounded by (A) ethane (A) Gardener **(B)** propane **(B)** Odum (C) butane (C) Darwin (D) methane (D) Malthus 105. World Environment Day is celebrated 110. The public, private, cooperative and on joint sectors exist in a (A) June 5 (A) Mixed economy **(B)** February 28 (B) Socialist economy (C) November 14 (C) Communist economy (D) July 15 Capitalistic economy (D) 112 MN 2 24 CA-2010-I

111. The State which stands first in software exports from India is

- (A) Maharashtra
- (B) Tamil Nadu
- (C) Karnataka
- (D) Andhra Pradesh
- 112. Panchayats were given constitutional status by the _____ amendment to the Constitution.
 - (A) 75th
 - (B) 74th
 - (C) 73rd
 - (D) 72nd
- 113. The President can declare a national emergency on
 - (A) his own
 - (B) the written recommendation of the Prime Minister
 - (C) the basis of the report of the Governor of a State.
 - (D) the written recommendation of the Union Cabinet.
- **114.** Sarkaria Commission was set up for reviewing the relations between
 - (A) Centre and States
 - (B) Legislature and Executive
 - (C) Executive and Judiciary
 - (D) The Prime Minister and the President
- **115.** To raise a discussion in the House on a matter of urgent public importance, which motion is used ?
 - (A) Censure
 - (B) Adjournment
 - (C) Calling attention
 - (D) Cut motions
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- **116.** Who spoke in Hindi for the first time in the UNO General Assembly ?
 - (A) Indira Gandhi
 - (B) P. V. Narasimha Rao
 - (C) Atal Bihari Vajpayee
 - (D) Rajiv Gandhi
- 117. How many expeditions did Babur lead to occupy Delhi?
 - (A) Three
 - (B) Four
 - (C) Five
 - (D) Six
- **118.** Which one of the following monuments has the second largest dome in the world ?
 - (A) Quwat-ul-Islam Masjid
 - (B) Gol Gumbaz
 - (C) Jamat Khana Masjid
 - (D) Alai Darwaza

119. During whose reign Fa-Hien visited India?

- (A) Sri Gupta
- (B) Samudragupta
- (C) Chandragupta I
- (D) Chandragupta II
- 120. The slave king who got the title 'Lakh Baksh' was
 - (A) Iltutmish
 - (B) Razia

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- (C) Qutbudin Aibak
- (D) Balban

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	121.		was the first Indian soldier to to use the greased cartridge ?	126.	The Wea	largest number of Cotton ving mills are located in
8	6	(A)	Nana Saheb	a. 195	(A)	Tamil Nadu
		(B)	Bahadur Shah	<u>11</u>	(B)	Uttar Pradesh
		(C)	Mangal Pandey	81	(C)	Maharashtra
		(D)	Tantia Tope		(D)	
				x * .	(2)	oojaa
	122.	Vasco	o da Gama discovered sea route	127	Hibe	rnation phenomenon is noticed in
		to	<u> </u>	12/1		Cosmonauts
		(A)	N. America			
÷		(B)	S. America	15.25	(B)	Avians
		(C)	India		(C)	Mammalians
		(D)	Australia		(D)	Amphibians
	72					
	123.	Tapti	river rises in mountains.	128.	Deng	ue is a
		(A)	Eastern Ghat	ł -	(A)	viral infection
		(B)	Western Ghat	1. ··	(B)	fungal infection
		(C)	Satpura	2 5	(C)	bacterial infection
		(D)	Vindhya		(D)	protozoan infection
	124.		major goal of the Green lution has been to	129.	Cock	roaches, prawns and crabs
		(A)	Decrease the use of modern	÷	(A) [·]	Simple eyes
	e.		farm machinery.	1.	(B)	Compound eyes
		(B)	Decrease Population growth.	. *	(C)	Parietal eyes
		(C)	Increase agricultural output.	a t a 	(D)	No eyes
		(D)	Increase the number of	1	(_)	
			traditional farms.	130	Bio	liesel, a kind of non-conventional
	105		· · · · · · · · · · · · · · · · · · ·	150.		e of energy, which is obtained
	125.		vorld's most important renewable y resource is		from	
		(A)	Natural vegetation			Sugarcane
		(B)	Water		(B)	Jatrophą
		(C)	Solar radiation		(C)	Castor plant
		(D)	Tidal waves		(D)	Mustard plant
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131. Photosynthesis occurs

- (A) only in leaves
- (B) only in stems
- (C) in all green parts of plants
- (D) in the roots

132. Banana leaves on maturity tear into ribbons to avoid

- (A) desiccation
- (B) air resistance
- (C) scorching sunlight
- (D) mutual shading
- 133. The substance which changes from solid to vapour state at normal atmospheric pressure without being liquefied is
 - (A) Ice
 - (B) Mercury
 - (C) Camphor
 - (D) Bismuth

134. Which energy comes from Sun?

- (A) Wind energy
- (B) Thermal energy
- (C) Tidal energy
- (D) Hydel energy
- 135. The tungsten wire in coiled form in electric bulb has
 - (A) lower melting point and lower resistance
 - (B) lower melting point and higher resistance
 - (C) higher melting point and lower resistance
 - (D) higher melting point and higher resistance

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	136.	The	tides in the ocean are due to	
	14. 	(A)	Wind over the Oceans	
		(B)	Gravitational pull of the Moon	
		(C)	Rotation of the Earth	×.,
		(D)	Revolution of the Earth	
222	2			1
	137.	Oil-f	ires are extinguished by	
		(A)	Soda-acid fire extinguisher	
		. (B)	Foam-type fire extinguisher	а а
	1	(C)	Carbon-tetrachloride fire	
1	40		extinguisher	
e.	· .	(D)	Simply by water	
	138.		apparatus used for measuring the	
			change is called	1.00
		(A)	Thermometer	:
1		(B)	Voltameter	
		(C)	Voltmeter	12
		(D)	Calorimeter	
				1.
	139.		er of Paris hardens by	
		(A)	•	i.
		(B)	-	
			giving out CO ₂	
		(D)	combining with CO ₂	
	· .			1
	140.		nan Silver is an alloy of	(* *
		(A)	Silver and Copper	5
		(B)	Silver and Aluminium	
		(C)	Copper, Zinc and Nickel	
		(D)	Nickel and Aluminium	
	141.		was the name accorded to the	÷
			ary Operation in Kargil in 1999?	
I		(A)	Operation Pawan	1. 1

- (A) Operation Pawan
- (B) Operation Poomalai
- (C) Operation Vijay
- (D) Operation Brasstacks

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- 142. The film 'Slumdog Millionaire' is based on the book 'Question & Answer' written by
 - (A) Bhisham Swarup
 - (B) Vikas Swarup
 - (C) Vimal Swarup
 - (D) Vinay Swarup
- 143. The International Hockey Tournament in which only the top six nations (judged by their rankings) are invited to take part is
 - (A) Champions Trophy
 - (B) Azlan Shah Cup
 - (C) World Cup
 - (D) Champions Challenge Trophy.
- 144. Pankaj Advani has won the World Professional Billiard Championship, 2009 defeating in the final
 - (A) Geet Sethi
 - (B) Robert Frost
 - (C) Om Agarwal
 - (D) Mike Russel
- **145.** To whom did India beat to lift the ONGC Nehru Cup, 2009 ?
 - (A) Japan
 - (B) Somalia
 - (C) Syria
 - (D) Afghanistan
- 146. The recipient of the 42nd Jnan Peeth Award this year is
 - (A) Manohar Shashtri
 - (B) Satya Vrat Shashtri
 - (C) K. Kaushal Panda
 - (D) Mahavir Shashtri
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- **147.** Who has won the 100 metres sprints at the British Grand Prix recently ?
 - (A) Tyson Gray
 - (B) Usain Bolt
 - (C) Kim Collins
 - (D) Mario Burns
- 148. The World Badminton Federation declared the Indian Shuttler, Saina Nehwal, as
 - (A) The most promising player of 2008
 - (B) The leading player of 2008
 - (C) The most popular player of 2008
 - (D) The emerging player of 2008
- 149. The first sister from India to be conferred the Sainthood by Pope Benedict XVI is
 - (A) Sister Desouza
 - (B) Sister Nirmala
 - (C) Sister Alphensa
 - (D) Sister Madorana
- **150.** The three countries in serial order which won the highest number of Gold Medals in the Beijing Olympics are
 - (A) China, U.S.A, Russia
 - (B) China, U.S.A, Germany
 - (C) China, Germany, Australia
 - (D) China, Australia, Canada

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		PAR NUMERICA	T-IV	TIDE	17
	151	The boys of a class are made to stand in			
а	131.	a queue. Amit is standing at 15 th place	154.	Simplified value of $\frac{(15.4)^2 - (35.4)^2}{25}$ is	
		from both ends. How many boys are	Lann		е. 19
		there in the queue ?	÷.,	(A) -40.64	
		(A) 31		(B) -10.16	
*		(B) 30	8 - y	(C) 40.64	
1		(C) 29		(D) 50.80	
			155	Simplified value of	
		(D) 28	155.		
			a . ⁶ .	$\frac{(0.361)^3 + (0.639)^3}{(0.361)^2 - 0.361 \times 0.639 + (0.639)^2}$ is	
с. С.	152.	If the sum of a rational number and its	f		t
		reciprocal is 13/6, then the number is	1.1	(A) 1 (B) 361	
· .		(A) $\frac{1}{2}$		(C) 639	0
		2		(D) 1000	
		(B) $\frac{1}{6}$		(D) 1000	- 1
		(2) 6	156	If the sum of one-half, one-third an	d
		(C) $\frac{2}{3}$	100.	one-fourth of a number exceeds th	u e
			а.) С	number by 12, then the number is	
		(D) $\frac{5}{6}$		(A) 90	
		(D) 6	1	(B) 144	
				(C) 154	10
	153.	In a group of students; 30 students play		(D) 174	
		Cricket, 20 play Tennis and in all 35	1 21 24	A second s	4
		play either Cricket or Tennis. How	157	$32^{\frac{4}{5}} + 32^{-\frac{4}{5}}$ is equal to	
а 1. к. – .		many students play both Cricket and Tennis?	157.	$32^{\circ} + 32^{\circ}$ is equal to (A) 32	
			5 B ⁰		
		(A) 10	i anti i i	(B) $16\frac{1}{16}$	
		(B) 12			
		(C) 15	Q	(C) $15\frac{15}{16}$	•
1 n		(D) 18	19 J	(D) 1	
					_
196) 11. ₁₁		SPACE FOR R	OUGH V	VORK	
		a site			
					1
		1. 1. A.	8 - 1 ⁹		
			÷		
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165.
$$\sqrt{7+2}\sqrt{12} \div \sqrt{7-2}\sqrt{12}$$
 is equal to
 (A) 4

 (B) $4\sqrt{3}$
 (A) 1000

 (C) 6
 (B) $4\sqrt{3}$

 (D) $6\sqrt{2}$
 (D) $6\sqrt{2}$

 166. The smallest perfect square number, which is divisible by each of 2, 3, 4, 5
 (A) 1000

 (B) 840
 (C) 900

 (C) 900
 (D) 1600

 167. $\left(1-\frac{1}{2}\right) \left(1-\frac{1}{3}\right) \left(1-\frac{1}{4}\right) \left(1-\frac{1}{5}\right)....$
 (A) $\frac{1}{120}$

 (A) $\frac{1}{120}$
 (B) $\frac{1}{108}$

 (C) $\frac{1}{100}$
 (C) $\frac{1}{100}$

 (D) $\frac{1}{50}$
 (D) $\frac{1}{50}$

 (D) $\frac{1}{50}$
 (D) $\frac{1}{50}$

 (A) 15.100
 (B) 15.500

 (C) 15.500
 (C) 15.500

 (D) 15.700
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- 173. The average of monthly salaries of A, B and C is Rs. 40,000 and that of B, C and D is Rs. 50,000. If D's monthly salary is Rs. 60,000, then A's monthly salary is
 - (A) Rs. 30,000
 - (B) Rs. 40,000
 - (C) Rs. 50,000
 - (D) Rs. 60,000
- **174.** The selling price of a commodity is reduced by 25%. As a result its daily sale is increased by 30%. Due to this effect the revenue collected, compared to the previous daily sale, will be
 - (A) 5% more
 - (B) 5% less
 - (C) 2.5% more
 - (D) 2.5% less
- 175. In an examination, a student got 30% marks out of 180 in the first paper of a subject. How much must he get in the second paper out of 150 so that he gets 50% marks in the subject ?
 - (A) 70%
 - (B) 74%
 - (C) 76%
 - (D) 80%

- **176.** Let us suppose that when water freezes in the form of ice, its volume is increased by 10%. What percent decrease will there be when ice melts in - the form of water ?
 - (A) 10
 - (B) 9
 - (C) $11\frac{1}{9}$
 - (D) $9\frac{1}{11}$
- 177. If A : B = 2 : 3 and B : C = 4 : 5, then 5A : 3C is
 - (A) 8:9
 - (B) 5:8(C) 7:9
 - (D) 6:7
- 178. The ratio of two numbers is 5 : 8 and their difference is 69. The smaller of the two numbers is
 - (A) 184
 - (B) 140
 - (C) 115
 - (D) 108
- 179. The incomes of A and B are in the ratio 3: 2 and their expenditures in the ratio 5: 3. If each saves Rs. 10,000, A's income is
 - (A) Rs. 30,000
 - (B) Rs. 40,000
 - (C) Rs. 60,000
 - (D) Rs. 90,000

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180.	A person took two equal loans for 2	183.	Two successive discounts of 10% and
	years and 3 years respectively each at 8% simple interest. If at the end of the	•	5% are equivalent to a single discount of
	terms, the difference of interests was		
с. к. а	Rs. 560, then the amount of each loan	- 1	(A) 15%
	was		(B) $7\frac{1}{2}\%$
	(A) Rs. 7,000		
. •	(B) Rs. 7,200 .		(C) $12\frac{1}{2}\%$
•	(C) Rs. 7,500	÷ .	x-, - <u>2</u>
	(D) Rs. 7,800		(D) $14\frac{1}{2}\%$
÷.			2
181	A sum of money at compound interest,	8	
101.		184.	The marked price of an article is 20%
	compounded half-yearly becomes $\frac{676}{625}$		above its cost price. If the trader allows
•	times of itself in one year. The rate of		20% discount on its marked price, he will get
	interest per annum is		
. •	(A) 10%		
	(B) 8%		(B) 4% loss
	(C) 6%		(C) 5% profit
	(D) 5%		(D) 5% loss
			×
182.	A sum of money at compound interest	185.	A man can complete one-third of a
÷	amounts to Rs. 10,648 in 3 years and to		work in 18 days. How many days will
•	Rs. 9,680 in 2 years. The rate of interest		he need to complete 0.5 part of the
	per annum is	к	work?
	(A) 20%		(A) 36
• 57	(B) 16%		(B) 27
	(C) 15%	9	(C) 24
	(D) 10%	1 . ¹	(D) 21
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186. A and B together can do a piece of work in 12 days, B and C together in 15 days and C and A together in 20 days. In how many days can A alone do the same work ?

- (A) 22
- (B) 25
- (C) 30
- (D) 40

187. A is twice as good a workman as B and together they complete a piece of work in 14 days. In how many days can A alone complete the work ?

- (A) 21
- (B) 28
- (C) 30
- (D) 35

188. If 1 man or 2 women or 3 boys can do a piece of work in 55 days, in how many days, will 1 man, 1 woman and 1 boy together do the same work ?

- (A) 40
- (B) 36
- (C) 33
- (D) 30
- **189.** A car completes a certain journey in 8 hours. It covers half the distance at 40 km/hr and the rest at 60 km/hr. The length of the journey is
 - (A) 420 km
 - (B) 400 km
 - (C) 384 km
 - (D) 350 km

190. In going from station A to station B, a distance of 100 km, a train moves with speed 40 km/hr and in returning back from B to A, it runs with speed 60 km/hr. The average speed (in km/hr) of the train for the entire journey is

- (A) 45
- (B) 48
- (C) 50
- (D) 55
- 191. A man walking at 3 km/hr crosses a square field diagonally in 2 minutes. The area (in m²) of the field is
 - (A) 2500
 - (B) 3000
 - (C) 5000
 - (D) 6000

192. A runs twice as fast as B and B runs thrice as fast as C. In how many minutes, will the journey, covered by C in 42 minutes, be covered by A ?

- (A) 36
- (B) 28
- (C) 14
- (D) 7
- **193.** The total surface area of a solid hemisphere is 1848 cm². Its diameter is
 - $\left(\text{use } \pi = \frac{22}{7} \right)$
 - (A) 28 cm
 - (B) $14\sqrt{6}$ cm
 - (C) $7\sqrt{6}$ cm
 - (D) 14 cm

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94.	Each of the radius of a sphere and that
	of the base of a right circular cylinder is
	3 cm. If their volumes are equal, the
	height (in cm) of the cylinder is

- (A) 4
- (B) 9
- (C) 12
- (D) 22

195. The ratio of the area of an equilateral triangle and that of a square is $\sqrt{3}$: 2. If the length of a diagonal of the square is 60 cm, then the perimeter of the triangle is

- (A) 150 cm
- (B) 180 cm
- (C) 210 cm
- (D) 240 cm

196. The difference between the circumference and the diameter of a circle is 15 cm. The radius (in cm) of the circle is $\left(\text{Take } \pi = \frac{22}{7}\right)$

- (A) 7
- (B) 4.5
- (C) 3.5
- (D) 2.25

197. 6% more is gained by selling a radio for Rs. 475, than by selling it for Rs. 451. The cost price of the radio is

- (A) Rs. 434
- (B) Rs. 400
- (C) Rs. 446.50
- (D) Rs. 427.50
- **198.** By selling an article for Rs. 255, a man incurs a loss of 15%. For what price should he sell it so that he makes a profit of 20% ?
 - (A) Rs. 275
 (B) Rs. 300
 (C) Rs. 375
 (D) Rs. 360
- **199.** A production-house sells their items at 20% profit. If the production cost is increased by 10%, but the selling price remains unaltered, the profit is
 - (A) $9\frac{1}{11}\%$ (B) 10% (C) 11% (D) $11\frac{1}{9}\%$
- **200.** A shop-keeper had to sell an article at 20% loss. He could gain 5%, if he had sold the article for Rs. 200 more. The cost price of the article was
 - (A) Rs. 700
 - (B) Rs. 800
 - (C) Rs. 900
 - (D) Rs. 1,000

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