Grand Test – ICM 180110

BRACE

IBPS CLERK MAINS GRAND TEST – ICM180110

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

HINTS & SOLUTIONS

- 51.(4) It is given in second paragraph that "A Burglar's Guide to the City', it's not the gang's spoils or fate he's interested in but their methods' from this we can easily conclude that (d) is the most appropriate option.
- 52.(3) It is given in the first paragraph that 'opened their vault to discover...... deposit boxes encircling a fresh, 500-squareinch tear in the floor' and '.....goods and more impressively, they were never caught.' Hence, (c) is the correct option.
- 53.(5) Although it is explicitly given in the third paragraph that 'A Burglar's Guide to the City is filled with other colorful exploits' but author doesn't describe any of them. Hence, (e) is the correct option.

54.(3) The tone of the author of the above passage is 'analytic'

- 55.(2) In the first paragraph, it is given that '....The gang tried their luck twice more over the next year, also tunneling from below, but both times, they were scared off...'. Hence, (ii) is not true. Hence (b) is the correct option.
- 56.(4) The entire passage describes the various aspects of the book 'A Burglar's Guide to the City'. Hence, (d) is the correct option.

- 57.(1) 'Memoir' means 'a historical account or biography written from personal knowledge.'. Hence 'Account' is the word which is most similar in meaning to it.
- 58.(3) 'Subterranean' means 'existing, occurring, or done under the earth's surface.'. Hence 'Underground' is the word which is most similar in meaning to it.
- 59.(5) 'Explicitly' means 'clearly and exactly'. Hence 'Ambiguously' is the word which is most opposite in meaning to it.
- 60.(2) 'Bestrewn' means 'to lie covering a surface, or to cover a surface with things that are far apart and in no particular arrangement'. Hence 'Uncovered' is the word which is most opposite in meaning to it.

61.(4)	62.(5)	
(0 (0)	(1 (0)	,

- 63.(3) 64.(2) 65.(1) 66-70. Correct sequence to form a meaningful paragra
- 66-70. Correct sequence to form a meaningful paragraph is HADEGFCB66.(3) 67.(5)
- 68.(2) 69.(4) 70.(3)

Grand Test – ICM 180110

- 71.(4) It is given in the first paragraph of the passage that " for the vast majority, being able to cast a vote freely is an affirmation of their status as equal citizens of the country" Hence (d) is the correct option. Rest of the options are included in this option.
- 72.(3) It is given in the first paragraph that : The gap between women and men voters has also steadily reduced and in some States female voters outnumbered males" but no reason for this has been given. Hence (i) is not true.

'....NOTA (None of the Above) button introduced only recently' suggests that (ii) is also not true. Hence, (c) is the correct option.

- 73.(4) "research has shown that historically high percentages in voting do not provide any indication of results" suggests that (d) is the correct option.
- 74.(1) "Some institutional factors.... contributed to the rise in voter turnouts that we areawareness drives undertaken by the Election Commission" in fifth paragraph suggests that (a) is the correct option.
- 75.(2) "Why India loves to vote" is the suitable title for the passage.
- 76.(5)
- 77. (3) Here, the subject is 'base' of 'federal budget, deficit, and government employee' which is singular. So, verb used should also be singular. So, change 'are' to is.
- 78. (4) Add 'on' before 'their' as 'depend' is followed by the preposition 'on'.
- 79. (1) 'Grilling over an open fire' is correct usage.110. (c); Replace 'they' with 'it'. Since, here the subject is The deepest ocean blue' which is singular.
- 80.(2) Use 'bombings' in place of 'bombing', since, bombing has been used in plural sense.
- 81.(4) 'whenever' which means 'every or any time' is the correct answer.
- 82.(2) Since, the author is seeking the reason for the so called 'frenzy in the market'. Hence, 'why' is the correct answer.
- 83.(3) 'To know ropes ' means 'to trick or entice into some activity'. Hence ropes is the correct answer.
- 84.(5) 'waging' is the most appropriate option.
- 85.(2) 'draw on' means 'utilizing the supply of something available to us'. Hence, (b) is the correct option.
- 86.(1) 'difficult' is the most appropriate option.
- 87.(3) 'to siphon off' means 'to move money from one bank account to another, especially illegally or dishonestly.' Hence, siphoned is the correct option.
- 88.(1) 'underlying' is the most appropriate option.
- 89.(5) 'in collusion with' means 'a secret understanding between two or more persons to gain something illegally' Hence, 'collusion' is the correct option.
- 90.(1) 'to assert' means 'to claim'. Hence, assert is the correct option.





- 98. (1) Clearly, the amount of compensation must have been decided keeping in mind the monetary position of the Government. So, I is implicit. However, nothing can be said about the frequency of railway accidents in future. So, II is not implicit.
- 99.(5) The customer's eagerness to get the bills makes I implicit. Besides, the customer has written to the editor to bring the malfunctioning of the department to public notice. So, II is also implicit.
- 100.(2) Such a warning is usually given to the workers to threaten them that they would lose their job if they didn't mend their ways. So, only II is implicit.
- 101.(5) Clearly, the statement encourages one to go to court to get his Provident Fund from his employer. This implies that the issue comes under the jurisdiction of courts and that it is the right of the employee to claim his Provident Fund. So, 'both I and II are implicit.
- 102.(2) The statement expresses concern over the issue as to when our country would be able to curb terrorism completely. This means that efforts are on and it is quite possible to put an end to terrorist activities although it could longer. So, only II is implicit.
- 103-107. From the condition (i) given in the question.



From the condition (iv) given in the question there are 3 possible arrangements.



First take the (r) arrangement of this question , from the (viii) condition, U not seated near to V so W sits between U and V



From the (vii) condition, F is immediate left of W which can't be possible because of C.

- \Rightarrow So, this arrangement is not possible.
- \Rightarrow Second, take the (q) arrangement

From the (iii) condition, B sits opposite to the caption of team Y.

I RACE Grand Test – ICM 180110 ⇒ First take the (u) arrangement, from the condition (iii) and (vi) _____R ____P E_____ ⇒ From the Condition (iv) and condition (viii) (X) _____R ____P ___E _____ Guitar String _____String Struck Piano _____ But it can't be possible because there is C who sits opposite to the captain of team Y. From (iii) condition, the person of string can be sit only at This arrangement is not possible. right of R, because two string players can't sit together. At last take the (P) arrangement because (r) and (q) Then the player of piano sits right of E but according to arrangement does not follow. So (P) arrangement follows condition, player of string, second to left of Q which can't in this question. be possible - because of P. From the (iv), (iii) and (ii) conditions, the figure which can So, this arrangement can't be possible be possible is given below Second, take the (v) arrangement, from the condition, (iii), (Y) 32 (vi), (iv) and (viii). x (U) $\frac{R}{1} \frac{R}{2} \frac{R}{3} \frac{Q}{4} \frac{P}{5} \frac{P}{6} \frac{E}{7} \frac{E}{9} \frac{P}{10}$ $\Rightarrow \text{ The player of string sits left to R and then the player of Piano}$ \Rightarrow sits at left of E The player of string \Rightarrow From (viii) and (vii) conditions, Captain of team U and W can't be sit right of R because of this condition (viii) does not follow. ⇒From the condition (v), (ii) and (vii)sits between captain of team (X) and (Y). {F sits immediate left of captain of team W. Captain of team U sits immediate right of D. F doesn't sit near to A.} \Rightarrow C sits left of E and S at right of E because C can be the person of If Captain of team W sits near to B then F sits Piano/trumpet and only this place of C can be possible. Immediate left of it. \Rightarrow OD sits at end of Row and O \Rightarrow player of struck Then A's position \Rightarrow can't be defined \Rightarrow A sits at right end, so B sits left to P. So, F sits immediate right to C and D sits immediate right of F \Rightarrow Q \Rightarrow player of Drum \Rightarrow Between string players m 32 \Rightarrow S \Rightarrow Player of Trumpet \Rightarrow not near to the Piano player \Rightarrow E \Rightarrow Player of Drum 117.(3) 116.(2) 119.(5) 118.(4) 120.(5) 121-125. First write the conditions, which are given in the question. Boys Bank Married To \Rightarrow A sits left to the B because from the condition \times (PNB) \times (BOI) (IDBI) (ii) A is not the captain of team Z BOI × (IOB) D (OBC) \Rightarrow From the (vi) and (i) condition × (CANARA BANK) age of $B \Rightarrow 35$ years С (× PNB) × (CANARA BANK) R age of C = 31 years age of $D \Rightarrow 36$ years Married To Bank (Y) 32 BOB/ IDBI × (PNB) CBI × (PNB)- C R IOB 0 P works in UBI/CBI \Rightarrow P works in CBI because E \Rightarrow × (married) \Rightarrow P (Z) 34 (U)33 Who works in UBI married to $\Rightarrow E$ (X) 35 \Rightarrow It is given that D - \times (IOB) 103.(4) 104.(5) D - Married to the girl from (OBC)The girl from OBC = Q/T 105.(1) 106.(3) 107.(2) But $Q \Rightarrow$ Married \Rightarrow person from (IOB) 108-112. C E So 7th 4th 2nd 3rd 5th 6th 1st $T \Rightarrow OBC$ $D \Rightarrow Married to T$ (27) (36) (32) (35) (28) (46) (41) 108.(3) 109.(5) $\textbf{Q} \Rightarrow \textbf{UBI} \Rightarrow \textbf{Married}$ to E (IOB) 110.(4) 111.(1) 112.(1) \Rightarrow E is from IOB so from the given table we can see that when E \Rightarrow IOB 114.(3)113.(1)115.(2) $C \Rightarrow BOM$ 116-120. From the condition (i), there are two possible arrangements of this guestion. $\frac{1}{1} \frac{2}{2} \frac{3}{3} \frac{1}{4} \frac{p}{5} \frac{1}{6} \frac{1}{5} \frac{1}{5} \frac{1}{9} \frac{1}{10} (u)$

Boys	Bank	Married	Girl	Bank	Married
A	IOB/BOM/ Canara	(IDBI)S	S	B OB/ IDBI	X (PNB)
B/D	BOI	T/P	Q	UBI	E (IOB)
D/B	BOI/PNB/BOM	T/P	Р	CBI	
С	BOI/IOB/BOM	R	R	BOB/IDBI	С
E	IOB	O (UBD)	Т	OBC	D

 \Rightarrow From the table \Rightarrow B/D \Rightarrow BOI / PNB

 $A \Rightarrow$ Married to the girl from IDBI

Grand	d Test – ICM 180110		D RACE
	and $R \Rightarrow Married$ to C so. A \Rightarrow married \Rightarrow S (IDBI)	141.(3)	The pattern of series is-
			56 <u> </u>
	$R \Rightarrow$ From BOB ⇒ The person from BOI is married \Rightarrow S/T and S is already married to A so.		442 · ×8-6
	BOI \Rightarrow Married \Rightarrow T \Rightarrow means the person from BOI is D. From the equation (i)		×7-5
	$D \Rightarrow BOI \Rightarrow married to \Rightarrow T$		3089
	$B \Rightarrow PNB \Rightarrow married to \Rightarrow P$		<u>18530</u> 18532 - ×5-3
	Boys Bank Married Girl Bank Married		92647 -
	to to A Canara S P CBI B		370586 · _ ×+-2
	B PNB P Q UBI E C BOM R R BOB C	142.(2)	The pattern of series is
	D BOI T S IDBI A F IOB O T OBC D		$\times \frac{2}{5}$
121 (1)			3200 ↔ <u>2</u>
121.(1)	124.(4) 125.(4)		$1280 \leftarrow 2$
126.(2)	127.(3) 128.(2)		$512 = \frac{1}{5}$
129-133	. Input: 40 of must attend 30 60 80 regular school 70		$\frac{x^2}{5}$
	students 20 class 50 Stop Listudents 40 of must attend 20 60 regular school 70		204.8
	20 class 50 80		$\underbrace{81.92}_{84.92} \underbrace{84.92}_{2} \leftarrow \underbrace{5}_{2}$
	Step II :school students 40 of must attend 30 60 regular 20	m	32.7 <u>68</u>
	class 50 80 70	143.(5)	The pattern of series is as-
	Step III :regular school students 40 of must attend 30 20		+(2) ³
	Class 50 80 70 60 Step IV of Regular school students 40 must attend 30 20		$906 \leftarrow +(3)^3$
	class 80 70 60 50		933 - 157
	Step V :must of regular school students attend 30 20 class	1	997 996 ← ⁺⁽⁴⁾
	80 70 60 50 40		+(5)3
	Step VI :class must of regular school students attend 20.80	¥	
	Step VII : attend class must of regular school students 80	7	1338 - +(6)
	70 60 50 40 30 20		1691 + +(7)3
129.(3)	130.(4)	144.(1)	The pattern of series is As-
131.(3)	132.(1) 133.(4) A bike in fees is no means to make the students more		$4 \times 11 + 11 \times (1)^2 = 44 + 11 = 55$
134.(2)	serious in studies. So, argument L is vague. However, with		$55 \times 9 + 9 \times (3)^2 = 495 + 81 = 576$
	the increase in fees, poor meritorious students would not		$576 x^7 + 7 x (5)^2 = 4032 + 175 = 4207$
	be able to afford post-graduate studies. So, argument II		$21280 \times 3 + 3 \times (9)^2 = 63840 + 243 = 64083$
125 (2)	holds.		$64083 \times 1 + 1 \times (11)^2 = 64083 + 121 = 64204$
133.(2)	it in reserve. So, argument L is vague, while argument I	25	So, wrong number = 4209
	holds as it provides a substantial reason for the same.	145.(4)	The pattern of series is as -
136.(5)	Clearly, if there were less candidates, the voters would		$3 \times 1.5 + 1.5 = 6$ $6 \times 2.0 + 4.0 - 16$
	find it easy to make a choice. So, argument I holds. Also,		16 × 2.5 + 7.5 = 47.5
	Constitution must be given an opportunity and should not		47.5 × 3.0 + 12.0 = 154.5
	be denied the same just to cut down the number of		154.5 × 3.5 + 17.50 = 558.25 ≠ 558.5
	candidates. So, argument II also holds strong.		$558.25 \times 4 + 24.00 = 2257$
137.(4)	The age of a person is no criterion for judging his mental	146.(2)	Average export from Harvana
	capabilities and administrative qualities. So, none of the arguments holds strong		(30% of 250) + (65% of 245)
138.(1)	Clearly, health of the citizens is an issue of major concern		+(60% of 262.62) + (62% of 312.24)
	for the Government. So, a product like drugs, must be first		$= \frac{4}{4}$
	studied and tested in the Indian context before giving		585.4108
120 (2)	icence for its sale. So, only argument I holds strong.		$=$ = 146.3527 \approx 146 million
137.(3)	140.(5)	147.(2)	Total export from UP = (40% of 295.96) + (55% of 180.24)
			+ (52% of 185.25) + (38%of175.22) = 380.4296 ≈ 380
			101ai production from
			380 100 45 45 450
			Required percentage = $\frac{1}{836} \times 100 = 45.45 \approx 45\%$

Grand Test – ICM 180110

Export from Haryana in 2010 and 2011 together=234.325 148.(1) Production of Punjab in 2012 and 2013 together=404.52 Required percentage $=\frac{234.325}{404.52} \times 100 = 57.93\%$ Average production in Haryana $=\frac{1070.11}{4}=267.5275$ 149.(2) Average production in Punjab = $\frac{764.05}{4}$ = 191.0125 Difference=267.5275-191.0125=76.515 Half of the difference= 38.2575 150.(1) Export from UP in 2010=40% of 295.96=118.384 In 2011=55% of 180.24=99.132 In 2012=52% of 185.25=96.33 In 2013=38% of 175.22=66.58 151.(2) Required difference $= \left(\frac{5.37 - 21.97}{21.97}\right) \times 10 - \left(\frac{64.13 - 27.16}{27.16} \times 100\right)$ $= \left(\frac{32}{21.97} \times 100\right) - \frac{36.97}{27.16} \times 100$ $\approx 146 - 136$ ≈ 10 % Percentage increase in the literacy rate of male in 152.(4) 1961 = 48.74% 1971 = 13.76% 1981 = 22.67% 1991 = 13.74% 2001 = 17.35% \therefore Required year = 1961 153.(2) Percentage increase in the literacy rate of female In 1961 = 73.25% In 1971 = 43.12% In 1981 = 35.45% In 1991 = 32.02% In 2001 = 37.36% Since, the number of males are not specified, we can not 154.(4) get the required value. "HINK (155.(1) **Required** ratio $= \left(\frac{56.38 - 40.4}{40.4} \times 100\right): 39.55$ = 39.55 : 39.55 = 1 : 1156.(1) 4M + 6W) 8 = (2M + 9W) 8 2M = 3WLet 1 man efficiency = 3Let 1 woman efficiency = 2Total work = $\{(4 \times 3) + (6 \times 2)\} \times 8$ = 192 $\therefore \text{ Required no of days} = \frac{192}{18 \times 2}$ $=5\frac{1}{3}$ days $M = \frac{1}{60}$ 157.(1) $W = \frac{1}{120}$ $\therefore \text{ Required no of days} = \frac{1}{\frac{6}{60} + \frac{12}{120}}$ $\frac{1}{\frac{1}{10} + \frac{1}{10}}$ $\frac{\frac{1}{10}}{\frac{10}{2}} = 5 \text{ days}$

S.P. C.P. 158.(3) 100x 114x (100x - 117)(114x - 117) $\frac{123}{100}(100x - 117) = 114x - 117$ $12300x - 123 \times 117 = 11400x - 117 \times 100$ 900x = 14391 - 11700x = 2.99 : Required price = 299 Rs. 159.(1) Let total unit = 50 $20 \times \frac{1}{4} + 30 \times \frac{x}{100} = 9.5$ x = 15%In 1000 ml of mixture, 160.(1) Alcohol = 700 mlWater = 300 mlLet x ml of alcohol is mixed. According to question ³⁰⁰ × 100 = 15 1000 + x $1000 + x = 2000 \Longrightarrow x = 1000 \text{ ml}$ 161-165. Total number of students = 2500 Number of girls $=\frac{3}{5} \times 2500 = 1500$ Number of boys $=\frac{2}{5} \times 2500 = 1000$ Number of boys playing cricket only $=\frac{20}{100} \times 1000 = 200$ Number of girls playing table tennis, badminton and carom only = $\frac{25}{100} \times 1500 = 375$ Number of boys playing football only = $\frac{26.8}{100} \times 1000 = 268$ Number of girls playing cricket only = $\frac{175}{100} \times 200 = 350$ Number of boys playing hockey, table-tennis and carom only $=\frac{25.7}{100} \times 1000 = 257$ Number of boys playing chess only =1000 - (200 + 268 + 257) = 1000 - 725 = 275 Number of girls playing chess only $=\frac{12}{11} \times 275 = 300$ Number of girls playing badminton only $=\frac{1}{4} \times 1500 = 375$ Number of girls playing football and hockey only = 1500 -(375 + 350 + 375 + 300) = 1500 - 1400 = 100 It can be tabulated as follows Games Number of boys Number of girls Cricket 200 350 Football 268 300 Chess 275 Badminton 375 Football + Hockey 100 375 Table tennis, badminton carrom Hockey, table-tenis, carrom 257 1500 Total 1000 161.(3) From the above table, number of students playing more

than one game =100+375+257=732162.(3) Total number of students playing hockey =100+257=357

Therefore, required percentage

 $=\frac{357}{2500}\times100\%=14.28\%$

163.(1) Total number of boys playing chess =275 Total number of girls playing badminton = 375 + 375 = 750
∴ Required ratio = 275 : 750 = 11 : 30

I RACE

I RACE Grand Test – ICM 180110 Total number of students playing football, cricket and 164.(2) 176.(2) Total production by company A $=\frac{15}{100} \times 25 = 3.75$ crores table-tennis =200+350+268+100+375+257=1550 165.(5) Number of students playing carom = 375 + 257 = 632. = 3.75 crores 166.(3) x = 7, y = 8Total production by Company C Therefore, x < y. $=\frac{22}{100} \times 25 = 5.5$ crores $x = \frac{-7}{2}, -5; y = -6, \frac{-13}{2};$ 167.(1) Cost of production of item I by Company A Therefore, x > y. $=\frac{2}{5} \times 3.75 = 1.5$ crores x = 4, 1.8; y = -1.5, 1.8168.(2) Cost of production of item I by Company C Therefore $x \ge y$. 169.(1) x = 3, 4.7; y = 1.5, 2.5 $=\frac{4}{5} \times 5.5 = 4.4$ crores Therefore, x > y. ∴ Required total cost = 1.5+4.4=5.9 crores 170.(5) x = 11, y = 11 177.(4) Therefore, x = y. Required profit earned $=\frac{\frac{25}{100}}{\frac{25}{8}} \times \frac{\frac{8}{100}}{\frac{8}{100}} \times 25 = 0.3125 \text{ crores}$ Let initial expenditures an rice, fish and 171.(4) oil be Rs. 12x, Rs. 17x and 3x respectively. = 31.25 lakhs Required % = $\frac{\frac{5}{100} \times \frac{1}{5} \times 25}{\frac{8}{100} \times \frac{5}{8} \times 25} \times 100$ Total expenditure = 12x +17x+3x=Rs. 32x 178.(4) After increase Expenditure an rice = $\frac{120}{100} \times 12x = \text{Rs.} 14.4x$ $\frac{0.25}{1.25} \times 100 = 20\%$ Expenditure an fish = $\frac{130}{100} \times 17x = \text{Rs.}22.1x$ 1.25 Required Ratio = $\frac{\frac{15}{100} \times \frac{2}{5} \times 25}{\frac{8}{100} \times \frac{2}{5} \times 25}$ Expenditure an oil = $\frac{150}{100} \times 3x = 4.5x$ 179.(3) Total expenditure = 14.4x + 22.1x + 4.5x= 41 x 800 Increase = 9x 30 $\frac{1}{500}$ × Percentage Increase = $\frac{9x}{32x} \times 100 = 28\frac{1}{8}\%$ 24 5 x 8 $2c_1 + 1c_1 =$ 3 Reqd. Probability = 172.(2) 5 x 4 12 = 2 : 1173.(4) Let A's capital = 3x180.(2) Required total profit $\left(\frac{32}{100} \times \frac{3}{5} \times \frac{11}{100} \times 25\right) + \left(\frac{20}{100} \times \frac{3}{5} \times \frac{15}{100} \times 25\right)$ B's capital = 5xRatio of their profit = $(4 \times 3x)$: $(T \times 5x)$ = 0.528 + 0.45 $\therefore \frac{12x}{5Tx} = \frac{4}{5}$ $= 0.978 \, \text{crores}$ 3 = T $= 97.8 \, \text{lakhs}$ ∴ Required time = 3 months Average = $\frac{1}{4} \times [5 + 10 + 25 + 20 + 25 + 15] \times 1000$ 181.(3) 174.(4) Let no. of students in class A, B and C be x, y and z $\frac{100000}{6} = 16666\frac{2}{3}$ ∴ A = 83x B = 76yKC C=85z 182.(4) $\frac{55}{60} \times 100 = 91.67$ Req. % = Now, A + B = 79x + 79yB + C = 81(y + z) = 81y + 81zReq. % = $\frac{10}{55} \times 100 = 18\%$ (aprox.) :: 83x + 76y = 79x + 79y183.(1) 4x = 3y $\frac{x}{v} = \frac{3}{4}$ Req. Ratio = 15 : 10 = 3 : 2 184.(2) Required no. of people = $(25 + 15) \times 1000 = 40000$ 185.(5) And, 76y + 85z = 81y + 81z5y = 4z186.(1) $? = \sqrt{1250 \times 450} = 5 \times 10 \times 15 = 750.$ $\begin{array}{l} ?\times \frac{460}{100} = \frac{65\times75}{100} + \frac{35\times25}{100} \\ ?= \frac{4875+875}{460} = \frac{5750}{460} = 12.5 \end{array}$ $\frac{y}{z} = \frac{4}{5}$:: x : y : z = 3 : 4 : 5 $\therefore \text{ Required average} = \frac{83 \times 3 + 76 \times 4 + 85 \times 5}{2}$ 187.(4) ? = 53 - 30 = 23. 188.(5) $=\frac{249+304+425}{249+304+425}$ $? = \left(\frac{63}{5} - \frac{27}{5}\right) \times \frac{70}{353} \\ = \frac{36}{5} \times \frac{70}{353} = \frac{504}{353} = 1\frac{151}{353}$ 12 = 978 12 = 81.5 189.(3) $? = \frac{1805}{19} + 65 - 200$ = 95 + 65 - 200 = 160 - 200 = -40 Let Required money = x 175.(1) $\therefore \frac{x \times 8 \times 4}{100} + \frac{x \times 6 \times 10}{100} + \frac{x \times 5 \times 12}{100} = 12160$ $\frac{x}{100} (32 + 60 + 60) = 12160$ 190.(2) $x = \frac{12160 \times 100}{100} = 8000 \text{ Rs.}$ 152