### INSTRUCTIONS

Before the Test: DO NOT OPEN THIS BOOKLET UNTIL THE SIGNAL TO START IS GIVEN.

1. Keep only the Admit Card, pencil, eraser and sharpener with you. DO NOT KEEP with you books, rulers, slide rules, drawing instruments, calculators (including watch calculators), cellular phones or any other device or loose paper. These should be left at a place indicated by the invigilator.

2. Use only an HB pencil to fill in the Answer Sheet.

3. Enter in your Answer Sheet all necessary details that are sought.

4. Ensure that your personal data have been entered correctly wherever required.

5. Check whether you have entered your Test Registration Number in the Answer Sheet correctly.

## At the start of the Test:

1. As soon as the signal to start is given, open the Test Booklet.

This Test Booklet contains 20 pages, including the blank ones. Immediately after opening the Test Booklet, verify that all the pages are printed properly and are in order. If there is a problem with your Test Booklet, immediately inform the invigilator/supervisor. You will be provided with a replacement.

### How to answer:

1. This test has three sections that examine various abilities. In all there are 75 questions. You will be given two hours to complete the test. In distributing the time over the three sections, please bear in mind that you need to demonstrate your competence in all three

sections. 2. Directions for answering the questions are given before each group of questions. Read these directions carefully and answer the questions by darkening the appropriate circles

on the Answer Sheet. There is only one correct answer for each question. 3. All Questions carry one mark each. Wrong answers are penalized at 0.25 negative per wrong answer.

4. Do your rough work only in the space provided in the Test Booklet and NOT on the Answer Sheet.

5. Follow the instructions of the invigilator. Candidates found violating the instructions will be disqualified.

# After the Test:

- 1. At the end of the test, remain seated. The invigilator will collect the Answer Sheet from your seat. Do not leave the hall until the invigilator announces "You may leave now". The invigilator may make the announcement only after collecting the Answer Sheets from all the candidates in the room.
- You may retain this Test Booklet with you.

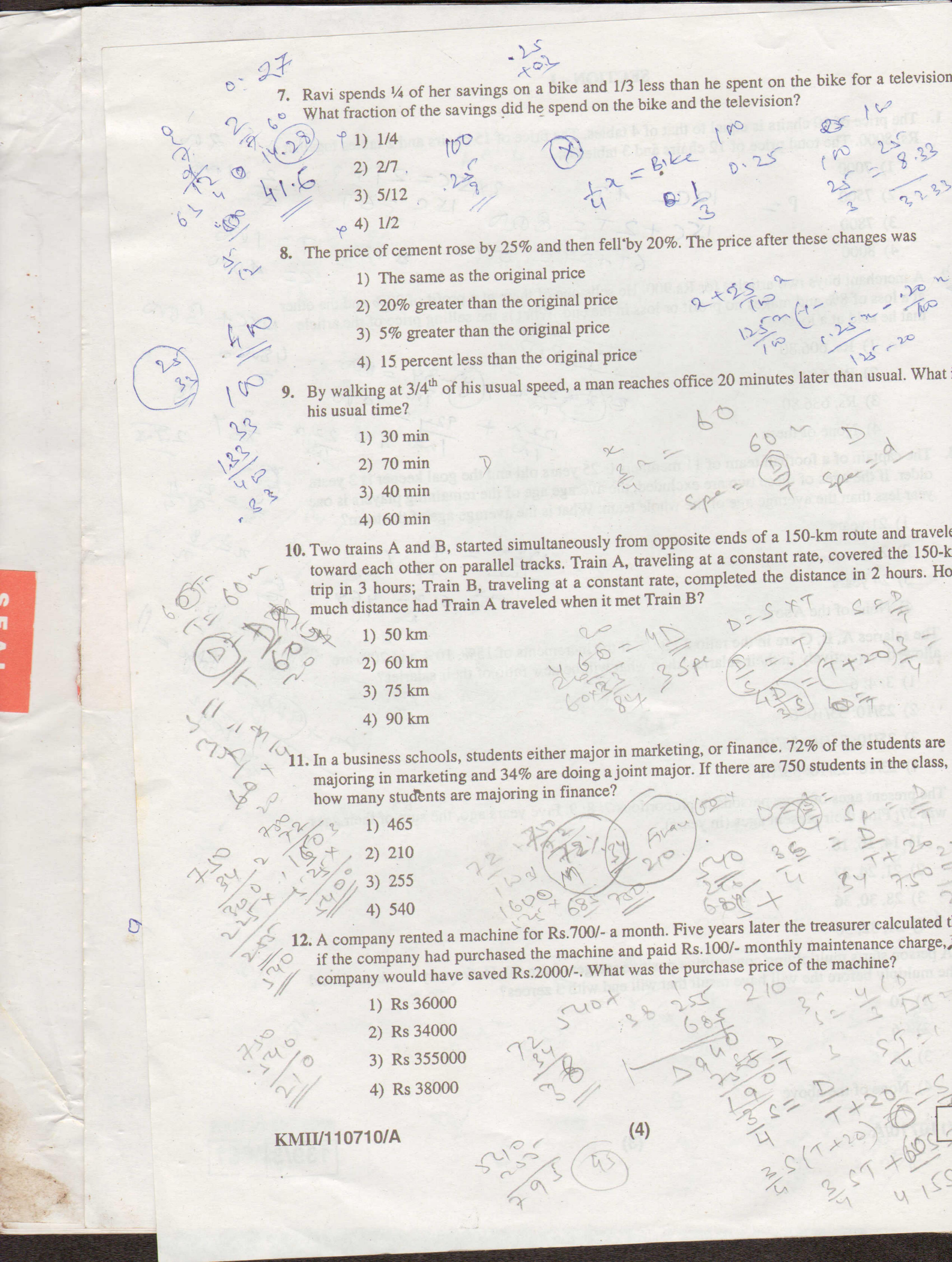
Candidates giving assistance or seeking/receiving help from any source in answering questions or copying in any manner in the test will forfeit their chances of being considered for admission. The Institute reserves the right to exclude any question or questions from this Test Booklet for final evaluation.

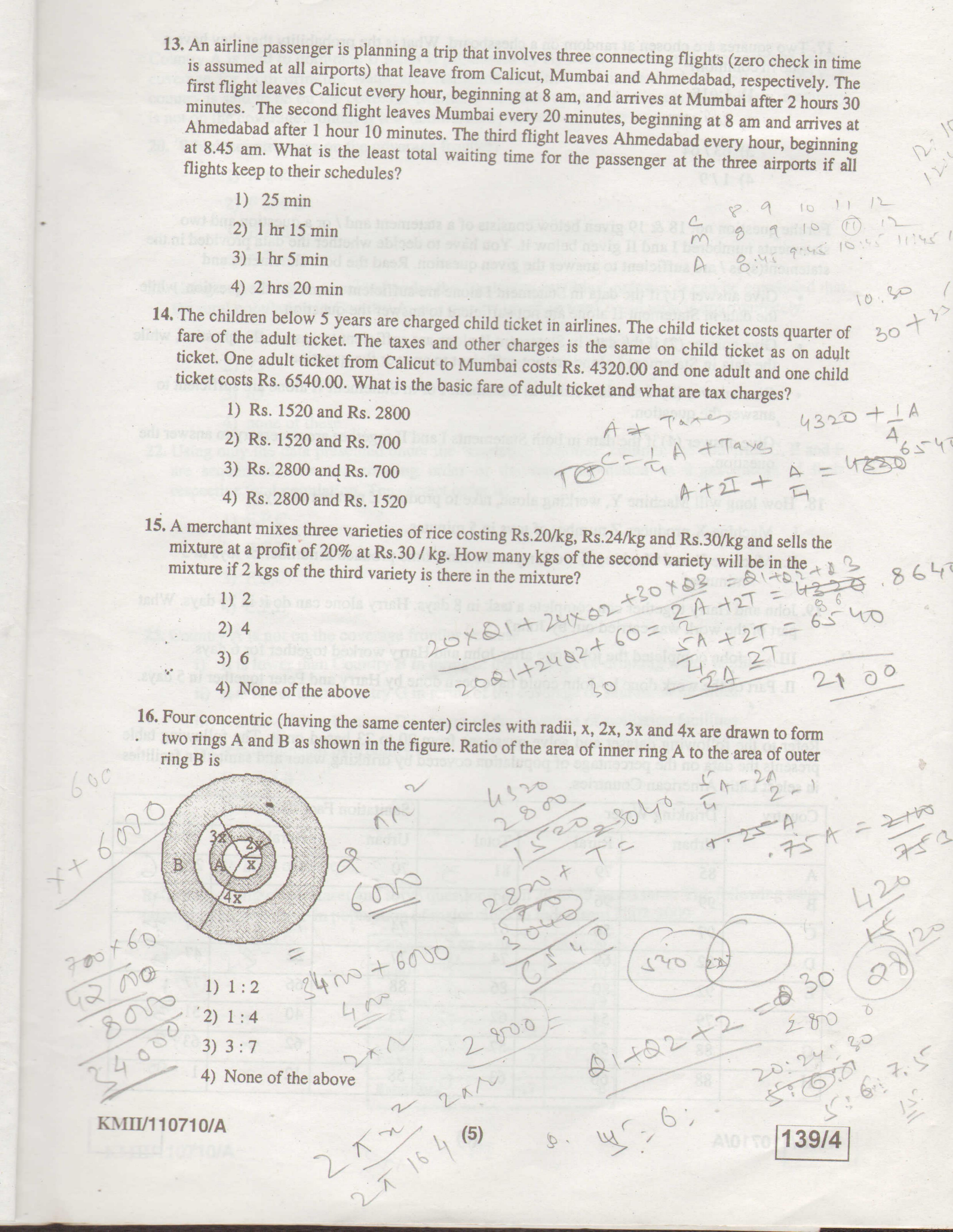
#### SECTION - I

1.	1. The price of 10 chairs is equal to that of 4 table Rs. 8000. The total price of 12 chairs and 3 tab	es. The price of 15 chairs and 2 tables together is oles is:
	1) 7000	2 x 5 C = 2 1 1 3
	10C= A	15C 261
	3) 7800 ISC + 2-7	1 = 8000 = 7 = 1 mo
4	4) 8000 67	7=8000 +27=8000 87= 7=1000.
2.	A manhant have true articles for Do 000 He of	
	1) Rs. 606.80	7=90 . 34 = 00 . 7
	2) Rs. 660	2222 HOTTO 910
	3) Rs. 636.80	( ) The 27 927 27 27.
	4) None of these	1270 100 100
<b>3.</b>	3. The captain of a football team of 11 members is older. If the ages of these two are excluded, the year less than the average age of the whole team	e average age of the remaining players is one
	1) 21 years	$\frac{1}{2} = \frac{1}{2} + \frac{1}{2} = \frac{1}$
	2) 23 years	The The
	3) 24 years	+2 61 n= 467 00
	4) None of the Above	
4.	4. The salaries A, B, C are in the ratio 2:3:5. If allowed respectively in their salaries, then wha	the increments of 15%, 10% and 20% are twill be new ratio of their salaries?
	1) 3: 4: 6	128 = 54 + 00 = 6R90 (M)
	2) 23/10: 33/10: 6	The state of the s
	3) 25/10: 35/10: 55/10	11 779
	4) 23/10: 33/10: 53/10	
5.	The present ages of three persons in proportion was 57. Find their present ages (in years).	s 7: 8: 9. Five years ago, the sum of their ages
	1) 14, 16, 18	
	2) 21, 24, 27	
	3) 28, 30, 36	
	4) 21, 32, 36	
6.	6. A person starts multiplying consecutive positive he multiply before the will have result that will	
	1) 10	

2) 6

4) None of the above





17. Two squares are chosen at random on a chessboard. What is the probability that they have a side in common?

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egang and not employed been beselved at lestly time Ch.B as an egan

- 1) 1/18
- 2) 64 / 4032
- 3) 63 / 64
- 4) 1/9

For the question no. 18 & 19 given below consists of a statement and / or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is / are sufficient to answer the given question. Read the both statements and

- Give answer (1) if the data in Statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.
- Give answer (2) if the data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.
- Give answer (3) if the data either in Statement I or in Statement II alone are sufficient to answer the question.
- Give answer (4) if the data in both Statements I and II together are necessary to answer the question.
- 18. How long will Machine Y, working alone, take to produce Z number of toys?
  - I. Machine X produces Z number of toys in 5 minutes.
  - II. Machine X and Machine Y working at the same time produce Z number of toys in 3 minutes.
- 19. John and Harry together can complete a task in 8 days. Harry alone can do it in 25 days. What part of the work was carried out by John?
  - III. John completed the job alone after John and Harry worked together for 6 days.
  - II. Part of the work done by John could have been done by Harry and Peter together in 5 days.

Refer to the following dataset and solve questions from 20 to 23 based on it. The following table presents the data on the percentage of population covered by drinking water and sanitation facilities in select Latin American Countries.

Country	Drinking Water			Sanitation Facilities		
	Urban	Rural	Total	Urban	Rural	Total
A	85	79	81 3	70	14	29
В	99	96	97)	79	44 2	48 .4
C	97	56	67	74	7 . 2 .	24 7
D	82	69	74 4	77	22	47 [
E	92	80	86	88	66	77
F	79	54	62	73	40	51 3
G	88	52	57 9	68	62 2	63 y 2
H	88	60	63	58	12	1 0

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(6)

Country A is said to dominate B (or B is dominated by A) when A has a higher percentage in total coverage for both drinking water and sanitation facilities and is denoted as A>B (or B<A). A country is said to be on the coverage frontier if no other country dominates it. Similarly, a country is not on the coverage frontier if it is dominated by at least one other country.

- 20. Which countries are on the coverage frontier?
  - 1) A and C
  - 2) F and G
  - 3) B and E
  - 4) D and H
- 21. Using only the data presented under the 'sanitation facilities' column, it can be concluded that the rural population in Country A, as a percentage of its total population is approximately:
  - 1) 79
  - 2) 73
  - 3) 69
  - 4) none of these
- 22. Using only the data presented under the 'sanitation facilities' column, the countries C, E and F are sequenced in non-decreasing order of the rural population as a percentage of their respective total population. The correct order is:
  - 1) E,F,C
  - 2) F,C,E
  - 3) F,E,C
  - 4) C,F,E
- 23. Country A is not on the coverage frontier because
  - i) It is lower than Country B in terms of the coverage of drinking water facilities.
  - ii) It is lower than Country G in terms of the coverage of sanitation facilities.
  - iii) It is lower than Country D in terms of the coverage of sanitation facilities.
  - iv) It is dominated by Country F.
    - 1) i and ii
    - 2) i and iii
    - 3) iv
    - 4) none of these

Refer to the following dataset and solve questions from 24 to 25 based on it. The following table presents percent change in population of major cities in India from 2007-2009.

Cities	07 to 08	08 to 09
Delhi	+10	-10
Mumbai	-20	+9
Chennai	+5	+12
Kolkata	-7	-15
Bangalore	+17	-8

2	4. In 2009, for which of the cities w shown?	as the population i	s greater than that of any of	f the other cities	
				of biss si vener	
	2) Mumbai		ON DUSTON ON SIL NO BUT SO		
	3) Bangalore				
	4) Cannot be determined				
25	In Bangalore, the population for 2 2009?		ately what percent of the pe	opulation for	
	1) 127%			0 019 6	
	2) 92%	417	1-8/ 11/24	70 13	
	3) 109%	1P		118	
	4) Cannot be determined		Y P NIT	100	
		SECTION - I			
26.	If Jimmy takes the bus, he'll be lat			rue?	
	1) If Jimmy doesn't take th		The State of the Control of the Cont	Warisonger	
2) If Jimmy is late, he must have taken the bus					
	3) If Jimmy isn't late, he m	ust have not taken	the bus		
	4) None of these				
27.	If session M is assigned to the t	hird period, then w	hich of the following must	be true?	
	1) N is assigned to the sixth		deloti sgatovos est no ton :	23. Country A. i	
	2) O is assigned to the first	period.			
	3) S is assigned to the fourt	h period.			
	4) T is assigned to the fifth	period.	de al Communica name di		
28.	Irene, Ann, Loui, and Dino are can jump from person in the line row). If the monkey made 3 jum	standing in an alphe to the next person	or back (but he can't jumn	nonkey which 2 people in a	
	1) Dino or Loui				
	2) Irene or Ann			161	
	3) Loui or Irene		60		
	4) None of these		0		
29.	If Arun is taller than Krishnan a Krishnan and Milan then which o	nd Krishnan is talled of the following sta	er than Arjun, and Shankar tements must be true?	is taller than	
	1) Arun is taller than Shanka				
	2) Krishnan is shorter than N	Tilan			
	3) Arun is taller than Milan				
	4) Shankar is taller than Arju	n			
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		(8)			
				AIOTTOTTULE	

- John, Benzy, Suman and Robert are putting together a band. They need a singer, a bass player, a drummer and a guitarist. If Suman can play the bass and sing, John can sing and drum, Robert can drum and play the guitar, and Benzy can play the guitar, which of these arrangements make sense?
  - 1) John drum, Suman-bass, Robert-sing, Benzy-guitar
  - 2) John sing, Suman bass, Robert-drum, Benzy guitar
  - 3) John drum, Suman sing, Robert-bass, Benzy guitar
  - 4) John sing, Suman drum, Robert- bass, Benzy guitar
- 31. Ten new television shows appeared during the month of March 2009. Five of the shows were rural based family drama, three were music and dance shows, and two were news shows. By January 2010, only seven of these new shows were still on the air. Five of the shows that remained were rural based family drama. Which of the following statement must be true according to the given information?
  - 1) Only one of the news shows remained on the air.
  - 2) Only one of the music and dance show, remained on the air.
  - 3) At least one of the shows that were cancelled was music and dance shows.
  - 4) Television viewers prefer rural based family drama over music and dance shows.
- Ram and Shyam take a vacation at their grandparents' house. During the vacation, they do any activity together. They either played tennis in the evening or practiced Yoga in the morning, ensuring that they do not undertake both the activities on any single day. There were some days when they did nothing. Out of the days that they stayed at their grandparents' house, they involved in one of the two activities on 22 days. However, their grandmother while sending an end of vacation report to their parents stated that they did not do anything on 24 mornings and they did nothing on 12 evenings. How long was their vacation?
  - 1) 29 days
  - 2) 36 days
  - 3) 14 days
  - 4) Cannot be determined
- 33. Leena lives in a large city on the East Coast. Her younger cousin Reena lives in Western India in a small town with less than 1, 000, 00 residents. Reena has visited Leena several times during the past five years. In the same period of time, Leena has visited Reena only once. Which of the following statement must be true according to the given information?
  - 1) Reena likes Leena better than Leena likes Reena.
  - 2) Leena thinks small towns are boring.
  - 3) Leena is older than Reena.
  - 4) Reena wants to move to the East Coast.

Answer the following questions 34-38 based on the passage below.

In an exam, there are five benches, numbered 1 through 5 from front to back. Each bench accommodates up to two persons, seated side by side. Six people — T, G, L, M, P and J — are writing the examination.

- L is sharing the bench with someone.
- M is not sharing a bench and is seated immediately behind an empty bench.
- T is not sharing a bench with either G or P.
- G is in either the third or fourth bench.
- Which of the following groups of students could occupy the second bench? 34.
  - 1) J, G, and P
  - 2) T and G
  - 3) Land M
  - 4) Jand T
- west tenes that dente, drawing, during were music which dente brow If Gwen is riding immediately behind Laurie's car and immediately ahead of Tom's car, all of the following must be true EXCEPT: Transfer research and constitution and constitution

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- 1) G is in the fourth bench.
- 2) P is in the third bench.
- 3) T is in the fifth bench. 4) L is in the third bench.
- Which one of the following statements CANNOT be true? 36.
  - 1) Neither T nor G is sharing a bench with another student
  - 2) Neither M nor J is sharing a bench with another student.
  - 3) T is sharing a bench, and J is sharing a bench.
  - 4) G is sharing a bench, and P is sharing a bench.
- If P is in the second bench, how many different combinations are possible for the third
  - one
  - 2) two
  - 3) three
  - 4) four
- Assume that a seventh student is with J in the first bench, but that all other rules remain 38. unchanged. Which of the following is a complete and accurate list of the students who might be in the fifth bench?
  - 1) T, P, L, M
  - 2) G, P
  - 3) T, L, P
  - 4) T, L, M

Questions from 39 to 40 are based on the following passage:

In a shopping mall, 10 shops (numbered from1 to 10) are connected by corridors. Corridors exist between shops 1&2, 1&5, 1&7, 2&3, 2&8, 3&4, 4&5, 5&6, 6&7, 6&10, 7&8, 8&9, and 9&10 only. The entry of the mall is through Shop1 and all shops have exit doors.

	the title and above more
39.	What is the maximum number of shops a customer can visit without visiting a shop more than once?
	1) 7 Live professors most udzust smegenist sudstall under de mes arcessions svill
	2) 8
	3) 9
	4) 10
40.	What is the minimum number of corridors (without repeating any) a customer passes through when visiting all 10 shops?
	1) 9
	2) 10
	3) 11
	4) 12
Ques	tions from 41 to 43 are based on the following passage:
paint one v	Green wishes to renovate her cottage. She hires the services of a plumber, a carpenter, a er, an electrician, and an interior decorator. The renovation is to be completed in a period of working week i.e. Monday to Friday. Every worker will be taking one complete day to do his Mrs. Green will allow just one person to work per day.
,00.	and the carpenter have completed their
	The interior decorator has to complete his job before that of the electrician.
	The carpenter cannot work on Monday or Tuesday.
41.	In case the painter works on Thursday, which among the following alternatives is possible?
	1) The electrician works on Tuesday.
Quanti	2) The electrician works on Friday.
	3) The interior decorator does his work after the painter.
,	4) The plumber and the painter work on consecutive days.
42.	In case the painter works on Friday, which among the following statements must be untrue?  1) The carpenter may work on Wednesday.
	2) The carpenter and the electrician may work on consecutive days.
	2) In case the carpenter works on Thursday, the electrician has to work on the previous

1) The electrician will work on Tuesday and the interior decorator on Friday.

2) The painter will work on Wednesday and the plumber on Thursday.

4) The carpenter will work on Wednesday and the plumber on Thursday.

3) The carpenter will work on Tuesday and the painter on Friday.

day i.e. Wednesday.

4) The plumber may work before the electrician does.

Which arrangement among the following is possible?