



# TARA INSTITUTE

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TOPIC-WISE TEST

TARA/DI - E/28/12

NAME: \_\_\_\_\_

Time Allowed: 40 MINUTES

Maximum Marks: 60

EXAM CENTRE. : \_\_\_\_\_

MARKS OBTAINED : \_\_\_\_\_

REMARKS : \_\_\_\_\_

## INSTRUCTIONS

1. This Test Booklet contains 60 items (Questions). Each item comprises FIVE responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response with you consider the best. In any case, choose **ONLY ONE** response for each item.

2. You have to mark all your responses **ONLY** on the separate Answer Sheet.

3. All items carry equal marks.

4. After you have completed filling in all responses on the answer sheet and the examination has concluded, you should hand over to Invigilator only the answer sheet.

### 5. Penalty for Wrong answers

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE

(i). There are five alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-fourth (0.25)** of the marks assigned to that question will be deducted as penalty.

(ii). If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.

(iii). If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO**



**TARA  
INSTITUTE**

**DIRECTION (Q.1-5) :** Study the following table carefully to answer the questions that follow:

**Number of boys and girls in five streams of a college over the year**

STREAMS										
Year	Arts		Science		Commerce		Management		IT	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
2002	556	414	619	505	668	612	770	633	670	515
2003	763	608	793	612	781	616	667	439	866	722
2004	672	519	540	516	859	713	778	727	781	619
2005	809	602	928	908	870	811	849	729	977	817
2006	745	510	884	820	967	819	562	938	990	808
2007	698	413	765	616	571	515	1288	1016	1151	1010

1. What is the total number of boys, in all the streams together, in the year 2004?

- (a) 4148                      (b) 3630  
(c) 4433                      (d) 3247  
(e) None of these

2. The number of boys in Arts stream in the year 2004 is approximately what per cent of the total number of boys for all the years together in Arts stream?

- (a) 27                          (b) 34  
(c) 08                          (d) 39  
(e) 16

3. What is the ratio of the total number of boys to the total number of girls, in all the streams together, for the year 2007?

- (a) 2:3                          (b) 14:13  
(c) 52:49                      (d) 213:170  
(e) None of these

4. What is the ratio of the number of boys to the total number of girls, in the Management stream for all the years together ?

- (a) 9:8                          (b) 71:86  
(c) 91:83                      (d) 27:23  
(e) None of these

5. What is the average number of Girls in Commerce stream in all the given years?

- (a) 681                          (b) 675

- (c) 618                          (d) 657  
(e) None of these

**DIRECTION (Q.6-10) :** Study the following table carefully to answer these questions:

**Table showing percentage of unemployed male and female youth and the total population of different states in 2005 and 2006.**

State	2005			2006		
	M	F	T	M	F	T
A	12	15	32	7	8	35
B	8	7	18	10	9	20
C	9	10	28	10	12	34
D	10	6	24	8	8	30
E	6	8	30	7	6	32
F	7	5	28	8	7	35

**M = Percentage of unemployed Male youth over total population**

**F = Percentage of unemployed Female youth over total population**

**T = Total population of the state in lakhs**

6. What was the difference between the number of unemployed male youths of State F in 2005 to the number of unemployed male youths of State A in 2006?
- (a) 70,000                      (b) 45,000  
(c) 68,000                      (d) 65,000  
(e) None of these



7. What was the respective ratio between unemployed male youths of State D in 2005 to the unemployed male youths of State D in 2006?  
 (a) 1:1 (b) 2:3  
 (c) 3:2 (d) 4:5  
 (e) None of these
8. What was the total number of unemployed youths in State A in 2006?  
 (a) 2,20,000 (b) 3,25,000  
 (c) 5,20,000 (d) 525,000  
 (e) None of these
9. How many female youths were unemployed in State D in 2005?  
 (a) 14,400 (b) 1,44,000  
 (c) 1,40,000 (d) 14,000  
 (e) None of these
10. Number of unemployed male youths of State A in 2005 was what per cent of the number of unemployed female youths of State E in 2006?  
 (a) 66 (b) 50  
 (c) 200 (d) 133  
 (e) None of these
11. In which year the percentage change in case of the Agriculture discipline was highest to the previous year?  
 (a) 2002 (b) 2003  
 (c) 2004 (d) 2005  
 (e) 2006
12. How much **approximate** percentage was increased in the number of students of Commerce discipline from 2003 to 2004 ?  
 (a) 14 (b) 18  
 (c) 20 (d) 9  
 (e) 22
13. In which year the difference in number of students of Arts and Science was exactly 130 ?  
 (a) 2001 (b) 2002  
 (c) 2004 (d) 2006  
 (e) None of these
14. The total number of students in Agriculture in 2001 and 2005 together was **approximately** what percent of number of students of the same discipline in 2002 ?  
 (a) 75 (b) 165  
 (c) 65 (d) 175  
 (e) 190
15. In which discipline was there a continuous increase in number of students over the given years?  
 (a) Science (b) Agriculture  
 (c) Arts (d) Commerce  
 (e) Management

**DIRECTIONS (11 - 15) : Study the following table carefully and answer the questions given below:**

**Number of students in five disciplines of a college over the years**

Discipline Year	Arts	Sci.	Com.	Manag.	Agri.
2001	240	358	275	215	314
2002	260	390	286	234	365
2003	275	374	265	269	336
2004	284	368	290	255	348
2005	296	415	272	284	326
2006	312	432	364	276	383

**DIRECTIONS (16-20) : Study the table carefully to answer the questions that follow:**

**PERCENTAGE OF MARKS OBTAINED BY SIX STUDENTS IN SIX DIFFERENT SUBJECTS**

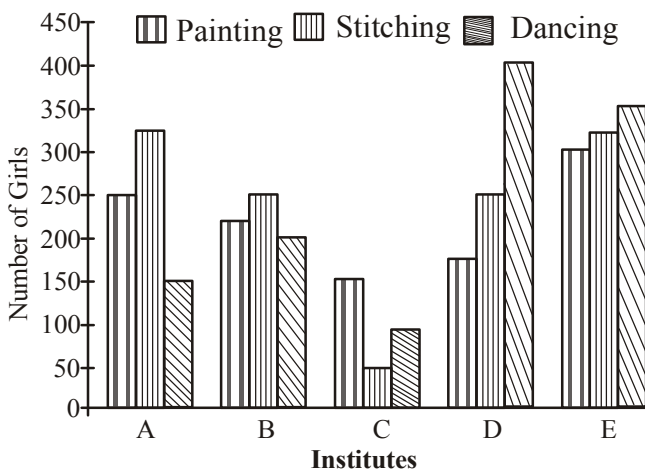
Subject	Maths	English	Science	Hindi	Social Studies	Marathi
Student	(out of 150)	(out of 75)	(out of 125)	(out of 50)	(out of 100)	(out of 25)
A	74	68	62	68	81	74
B	64	72	82	68	63	66
C	72	84	78	66	77	70
D	78	82	64	70	69	84
E	82	64	84	72	65	60
F	68	72	74	74	83	80



16. If, to pass in the exam, a minimum of 54 marks in English and minimum 93 marks in Science are required, how many students has passed the exam?  
 (a) One (b) Four  
 (c) Two (d) Three  
 (e) None of these
17. Which student has scored the highest marks in all the subjects altogether?  
 (a) F (b) E  
 (c) B (d) C  
 (e) None of these
18. What are the average marks obtained by all students together in Hindi?  
 (a) 35.02 (b) 32.68  
 (c) 31.33 (d) 30.83  
 (e) None of these
19. What is the overall percentage of marks obtained by F in all subjects together?  
 (a) 74 (b) 72  
 (c) 75 (d) 78  
 (e) None of these
20. What are the total marks obtained by B in Maths and Social Studies together?  
 (a) 153 (b) 159  
 (c) 146 (d) 149  
 (e) None of these
21. What is the respective ratio of total number of girls enrolled in Painting in the Institutes A and C together to those enrolled in stitching in the Institute D and E together?  
 (a) 5 : 4 (b) 5 : 7  
 (c) 16 : 23 (d) 9 : 8  
 (e) None of these
22. Number of girls enrolled in stitching in Institute B forms approximately how much per cent of the total number of girls enrolled in stitching in all the institutes together?  
 (a) 29 (b) 21  
 (c) 33 (d) 37  
 (e) 45
23. What is the respective ratio of total number of girls enrolled in Painting, Stitching and Dancing of all the institutes together?  
 (a) 44 : 48 : 47 (b) 43 : 47 : 48  
 (c) 44 : 47 : 48 (d) 47 : 48 : 44  
 (e) None of these
24. Number of girls enrolled in dancing in institute A forms how much per cent of total number of girls enrolled in all the Hobby classes together in that Institute? (round off to two digits after decimal)  
 (a) 23.87 (b) 17.76  
 (c) 31.23 (d) 33.97  
 (e) 20.69
25. What is the total number of girls enrolled in Painting of all the Institutes together?  
 (a) 1150 (b) 1200  
 (c) 1275 (d) 1100  
 (e) None of these

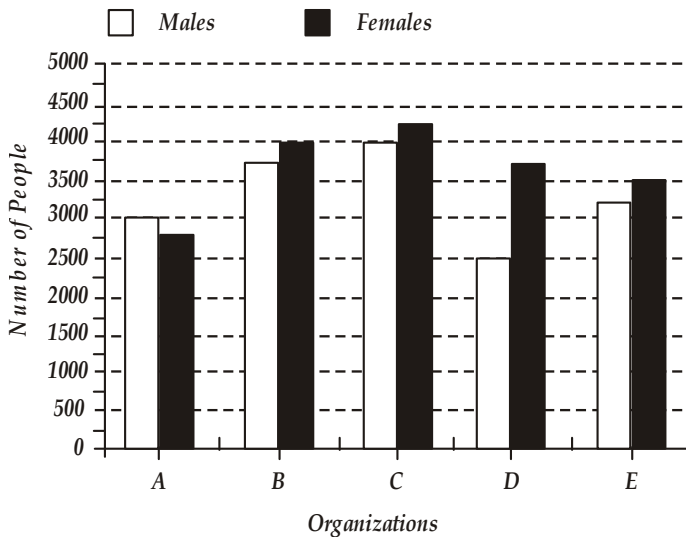
**DIRECTION (Q. 21 - 25) : Study the graph carefully to answer the questions that follow.**

**Number of girls enrolled in different hobby classes in various institutes in a year.**



**DIRECTIONS (26 - 30) :** Study the following graph carefully to answer the questions that follow.

**Total number of males and females in five different organizations**

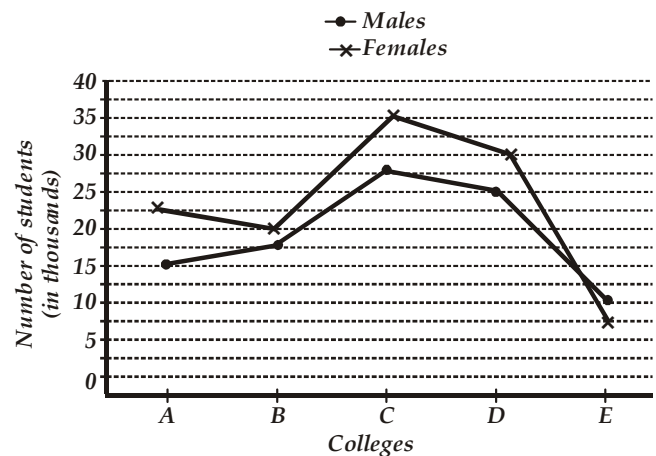


26. What is the average number of females of all the Organizations together?
  - (a) 3800
  - (b) 3550
  - (c) 3300
  - (d) 3150
  - (e) None of these
27. The number of males of Organization A is **approximately** what percent of the total number of males of all the Organizations together?
  - (a) 18
  - (b) 28
  - (c) 11
  - (d) 31
  - (e) 36
28. What is the difference between the total number of females and the total number of males of all the Organizations together?
  - (a) 1500
  - (b) 1750
  - (c) 1800
  - (d) 2050
  - (e) None of these
29. What is the respective ratio of number of females of Organization C to the number of females of Organization E?
  - (a) 14 : 17
  - (b) 17 : 14
  - (c) 14 : 15
  - (d) 15 : 14
  - (e) None of these

30. The total number of males of Organizations A & B together are **approximately** how much percent of the total number of males of Organizations C, D and E together?
  - (a) 58
  - (b) 75
  - (c) 69
  - (d) 83
  - (e) 52

**DIRECTIONS (31-35) :** Study the following graph carefully and answer the questions below it

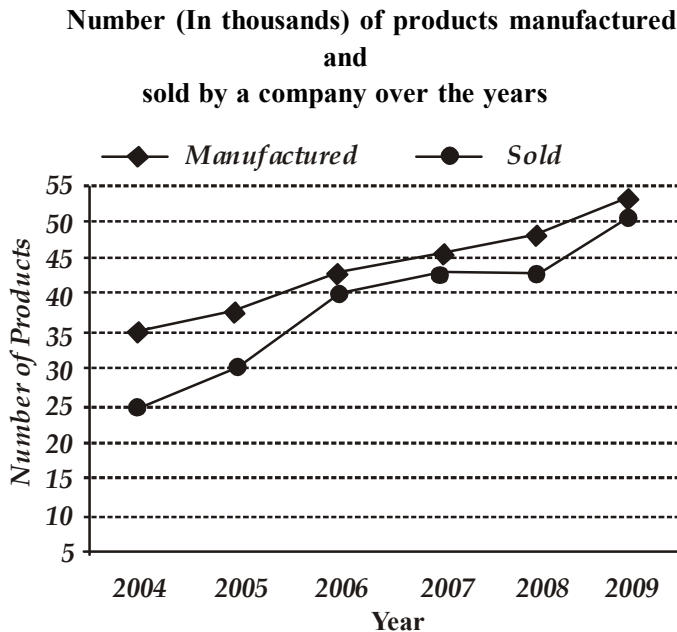
**Number of students (males & females) passed out from various colleges in a year. (Numbers are in thousands)**



31. What is the average number of students (Males & Females) passed out from all the colleges together ?
  - (a) 38000
  - (b) 48000
  - (c) 42000
  - (d) 51000
  - (e) None of these
32. The number of Females passed out from college C is **approximately** what percent of the total number of Females passed out from all the colleges together?
  - (a) 28
  - (b) 30
  - (c) 36
  - (d) 25
  - (e) 40

33. What is the difference between the total number of students passing out from college A and the total number of students passing out from college E ?
- (a) 20,500                      (b) 21,000  
(c) 10,500                      (d) 10,000  
(e) None of these
34. What is the respective ratio of the total number of Males to the total number of Females passed out from all the colleges together?
- (a) 19: 23                      (b) 18: 25  
(c) 23: 19                      (d) 25: 18  
(e) None of these
35. The number of Males passing out from colleges A and B together is how much percent of the number of females passing out from colleges C and D together?
- (a) 45                              (b) 40  
(c) 35                              (d) 50  
(e) None of these

**DIRECTIONS (36-40) : Study the following graph carefully to answer the questions:**

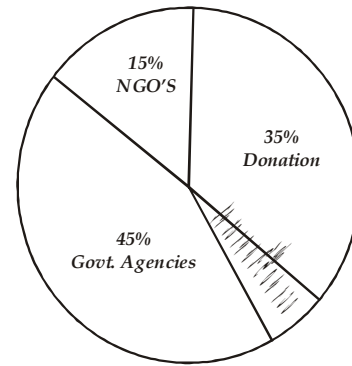


36. What is the difference in the number of products manufactured by the company in the year 2009 and 2008?
- (a) 4000                      (b) 5500

- (c) 3500                      (d) 4500  
(e) None of these
37. The number of products sold by the company in the year 2004 is what percent of the number of products manufactured by it in that year? (rounded off to two digits after decimal)
- (a) 71.43                      (b) 67.51  
(c) 81.67                      (d) 56.29  
(e) None of these
38. What is the percent increase in the number of products sold by the company in the year 2006 from the previous year? (round off to two digits after decimal)
- (a) 19.25                      (b) 33.33  
(c) 10.45                      (d) 42.66  
(e) None of these
39. What is the respective ratio of the number of products not sold by the company in the year 2007 to those not sold in the year 2005 ?
- (a) 3 : 1                      (b) 6 : 5  
(c) 1 : 3                      (d) 5 : 6  
(e) None of these
40. What is the **approximate** average number of products manufactured by the company over all the years together?
- (a) 36550                      (b) 39480  
(c) 41220                      (d) 43330  
(e) 34420

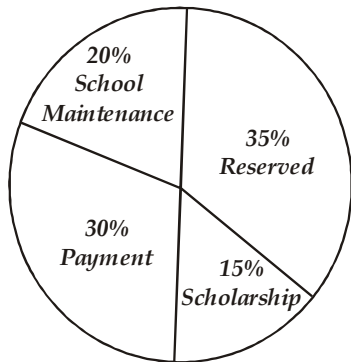
**DIRECTIONS (41-45) : Study the following pie-charts carefully and answer the questions given below it.**

The entire fund that school gets from different sources is equal to ₹ 500 lakhs.



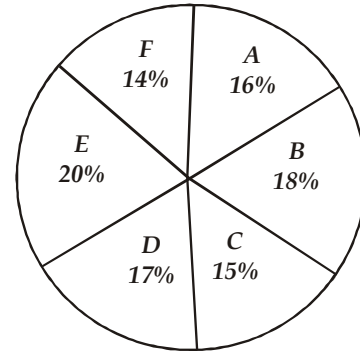
Sources of Funds in School



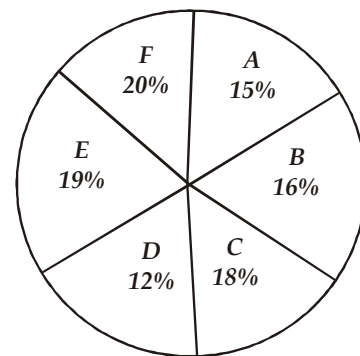


Uses of Funds by school

Total graduate passed population = 24 lakh



Total class XII passed population = 32 lakh



41. What is the difference between the funds acquired by school from NGO's and internal sources ?
  - (a) ₹ 50 lakhs
  - (b) ₹ 45 lakhs
  - (c) ₹ 75 lakhs
  - (d) ₹ 25lakhs
  - (e) None of these
42. If the school managed 'school maintenance' from the 'government agencies' fund only, then how much fund from government agencies would still left for other use?
  - (a) ₹ 120 lakhs
  - (b) ₹ 150 lakhs
  - (c) ₹ 110 lakhs
  - (d) ₹ 95 lakhs
  - (e) None of these
43. If scholarship has to be paid out of the donation fund, then what is the approximate percent of donation fund used for this purpose?
  - (a) 43%
  - (b) 53%
  - (c) 37%
  - (d) 47%
  - (e) 32%
44. What is the total amount used by the school for payment?
  - (a) ₹ 100 lakhs
  - (b) ₹ 110 lakhs
  - (c) ₹ 150 lakhs
  - (d) ₹ 140 lakhs
  - (e) None of these
45. What amount of the fund is acquired by the school from government agencies?
  - (a) ₹ 220 lakhs
  - (b) ₹ 310 lakhs
  - (c) ₹ 255 lakhs
  - (d) ₹ 225 lakhs
  - (e) None of these

Male - Female ratio

State	graduate and more			XIITH pass		
	M	:	F	M	:	F
A	7		5	7		9
B	5		3	3		5
C	5		4	4		5
D	9		8	5		7
E	9		7	9		10
F	4		3	3		2

46. What is the difference between graduate male population and XIITH passed male population of state A?
  - (a) 24,000
  - (b) 14,000
  - (c) 28,000
  - (d) 36,000
  - (e) None of these

**DIRECTIONS (46-55) : Study the following pie-charts carefully and answer the questions given below it.**

**Graduate and class XII passed population details from different states of a country**

47. What is the ratio of graduate female population of state E to XIIth passed female population of state D?  
 (a) 7 : 5 (b) 5 : 7  
 (c) 16 : 15 (d) 15 : 16  
 (e) None of these
48. Total graduate female population of state C is what per cent of the the total XIIth passed female population of that state?  
 (a) 40 (b) 62.5  
 (c) 50 (d) 52.5  
 (e) None of these
49. Total XIIth passed male population from state C is what per cent of the total XIIth passed population from all state together ?  
 (a) 8% (b) 12%  
 (c) 11% (d) 9%  
 (e) None of these
50. What is the ratio of total graduate male population of state E to total XIIth passed female population of that state ?  
 (a) 28 : 35 (b) 35 : 28  
 (c) 32 : 45 (d) 45 : 32  
 (e) None of these
51. Total graduate population of state F is what per cent of the the total XIIth passed population of state A ?  
 (a) 56 (b) 72  
 (c) 68 (d) 76  
 (e) None of these
52. Total XIIth passed population of state E is what per cent of the the total XIIth passed male population of state F ?  
 (a) 70 (b) 75  
 (c) 68 (d) 72  
 (e) None of these
53. What is the ratio of total graduate and total XIIth passed male population of state A to total graduate and XIIth passed female population of same state ?  
 (a) 215 : 216 (b) 214 : 215  
 (c) 217 : 215 (d) 215 : 217  
 (e) None of these
54. What is the ratio of total graduate population of state D to total XIIth passed population of same state ?  
 (a) 17 : 16 (b) 16 : 17  
 (c) 64 : 51 (d) 51 : 64  
 (e) None of these
55. Total graduate female population of state B is what per cent of the Total graduate female population of state E ?  
 (a) 129 (b) 82  
 (c) 77 (d) 107  
 (e) None of these
- DIRECTION (Q. 56 - 60) : Study the information carefully to answer the following questions:**  
 In an organization consisting of 750 employees, the ratio of Males to Females is 8 : 7 respectively. All the employees work in five different departments viz. HR, Management, PR, IT and Recruitment. 16 per cent of the females work in management department. 32 per cent of males are in HR department. One-fifth of the females are in the department of Recruitment. The ratio of males to females in the Management Department is 3:2 respectively. 20 per cent of the total numbers of employees are in PR Department. Females working in recruitment are 50 percent of the males working in the same Department. 8 per cent of the male are in IT Department. The remaining Males are in PR Department. 22 per cent of the females are working in HR Department and remaining are working in IT Department.
56. What is the total number of females working in the IT and recruitment department together?  
 (a) 147 (b) 83  
 (c) 126 (d) 45  
 (e) None of these
57. What is the number of females working in the HR Department?  
 (a) 77 (b) 70  
 (c) 56 (d) 134  
 (e) None of these
58. Number of males working in HR Department forms approximately what per cent of total number of the employees in the organization?  
 (a) 20 (b) 28  
 (c) 32 (d) 9  
 (e) 17
59. Number of males working in PR Department forms what per cent of the number of Females working in the same department? (round off to two digits after decimal)  
 (a) 22.98 (b) 16.68  
 (c) 11.94 (d) 6.79  
 (e) 27.86
60. What is the total number of employees working in the Management department?  
 (a) 128 (b) 77  
 (c) 210 (d) 140  
 (e) None of these

