#### **Previous Question**

### UNITED BANK OF INDIA PROBATIONARY OFFICERS EXAM., 2009

(Held on 21-6-2009)

Qua	ntitative Apti	tude
Directions—(Q. 1-5) What will come in place of the question-mark (?) in the following questions ?  1. 185% of 400 + 35% of 240 = ?% of 1648  (A) 85. (B) 75  (C) 125 (D) 50  (E) None of these	(A) 58 (B) 56 (C) 52 (D) 63 (E) 61 10. 69-008% of 699-998 + 32-99% of 399-999 = ? (A) 615 (B) 645 (C) 675 (D) 715 (E) 725	17. Mr. Giridhar spends 50% of his monthly income on household items and out of the remaining he spends 50% on transport, 25% on entertainment, 10% on sports and remaining amount of Rs. 900 is saved. What is Mr. Giridhar's monthly income?  (A) Rs. 6,000
2. $\sqrt{24^4} + 224 = ? \times 20^2$ (A) 20 (B) 4 (C) 2 (D) 16 (E) None of these	Directions - (Q. 11-15) What will come in place of the question-mark (?) in each of the following series ?  11. 17 52 158 477 ? 4310	(B) Rs. 12,000 (C) Rs. 9,000 (D) Cannot be determined (E) None of these
3. 12·28 × 1·5 – 36 + 2·4 = ?  (A) 3·24 (B) 7·325  (C) 6·42 (D) 4·32  (E) None of these	(A) 1433 (B) 1432 (C) 1435 (D) 1434 (E) None of these 12. 3 22 ? 673 2696 8093 (A) 133 (B) 155	18. Out of 5 men and 3 women, a committee of 3 members is to be formed so that it has 1 woman and 2 men. In how many different ways can it be done?
4. $\frac{3}{8}$ th of $\frac{4}{9}$ th of 1092 = ? (A) 182 (B) 728 (C) 364 (D) 218	(C) 156 (D) 134 (E) None of these 13. 6 13 38 ? 532 2675 (A) 129 (B) 123	(A) 20 (B) 10 (C) 23 (D) 30 (E) None of these  19. Cost of fencing a circular, plot
(E) None of these 5. $66^2 - 34^2 = ?$ (A) $3600$ (B) $3200$	(C) 172 (D) 164 (E) None of these 14. 286 142 ? 34 16 7	at the rate of Rs. 15 per metre is Rs. 3,300. What will be the cost of flooring the plot at the rate of Rs. 100 per square metre?

- (C) 2146
- (D) 2466
- (E) None of these

What Directions—(Q. 6-10) approximate value will come in place of the question-mark (?) in the following questions?

- 6.  $175 \times 28 + 275 \times 27.98 = ?$ 
  - (A) 11800
- (B) 12600
- (C) 12800
- (D) 11600
- (E) 12200
- 7.  $324.995 \times 15.98 \div 4.002 + 36.88 = ?$ 
  - (A) 1300
- (B) 1230
- (C) 1440
- (D) 1380
- (E) 1340
- 8.  $1164 \times 128 \div 8.008 + 969.007 = ?$ 
  - (A) 18800
- (B) 19000 E
- (C) 19600
- (D) 19200
- (E) 18600
- 9.  $\sqrt{624.98} + \sqrt{729.25} = ?$

- - (A) 66
- (B) 72
- (C) 64
- (D) 74
- (E) None of these
- 15. 17 9 ? 16-5 35 90
  - (A) 5
- (B) 15
- (C) 10
- (D) 20
- (E) None of these
- 16. Prakash, Sunil and Anil started a business jointly investing Rs. 11 lakh, Rs. 16-5 lakh and Rs. 8-25  $\,$ lakh respectively. The profit earned by them in the business at the end of 3 years was Rs. 19-5 lakh. What will be the 50% of Anil's share in the profit ?
  - (A) Rs. 4-5 lakh
  - (B) Rs. 2-25 lakh
  - (C) Rs. 2-5 lakh
  - (D) Rs. 3-75 lakh
  - (E) None of these

- hold ning 25% orts 900 har's
- to be n a n y ?
- plot re is cost te of
  - (A) Rs. 3,85,000
  - (B) Rs. 2,20,000
  - (C) Rs. 3,50,000
  - (D) Cannot be determined
  - (E) None of these
- 20. 8 men and 4 women together can complete a piece of work in 6 days. Work done by a man in one day is double the work done by a woman in one day. If 8 men and 4 women started working and after 2 days, 4 men left and 4 new women joined. In how many more days will the work be completed ?
  - (A) 5 days (B) 8 days
  - (C) 6 days
- (D) 4 days
- (E) 9 days
- 21. Naresh purchased a TV set for Rs. 11,250 after getting discount of 10% on the labelled price. He

spent Rs. 150 on transport and Rs. 800 on installation. At what price should it be sold so that the profit earned would have been 15% if no discount was offered?

- (A) Rs. 12937-50
- (B) Rs. 14,030
- (C) Rs. 13,450
- (D) Rs. 15467-50
- (E) None of these
- 22. Mr. Duggal invested Rs. 20,000 with rate of interest @ 20 p.c.p.a. The interest was compounded half yearly for first one year and in the next year it was compounded yearly. What will be the total interest earned at the end of two years?
  - (A) Rs. 8,800 (B) Rs. 9,040
  - (C) Rs. 8,040 (D) Rs. 9,800
  - (E) None of these
- 23. If the positions of the digits of a two digit number are interchanged, the number obtained is smaller than the original number by 27. If the digits of the number are in the ratio of 1:2, what is the original number?
  - (A) 36
  - (B) 63
  - (C) 48
  - (D) Cannot be determined
  - (E) None of these
- 24. In how many different ways can the letters of the word DESIGN be arranged so that the vowels are at the two ends?
  - (A) 48
- (B) 72
- (C) 36
- (D) 24
- (E) None of these
- 25. If the numerator of a fraction is increased by 20% and the denominator is increased by 25%, the fraction obtained is =•. What was the original fraction?
  - (A) §
  - (B) **f**
  - (O |
  - (D) Cannot be determined
  - (E) None of these

**Directions** – (Q. 26 to 30) In each of these questions, a question is given followed by information in three statements. You have to find out the

data in which statement(s) is sufficient to answer the question and mark your answer accordingly.

- 26. What is the average age of the six members A, B, C, D, E and F in the family?
  - 1. Total age of D and E is 14 years
  - Average age of A, B, C and F is 50 years
  - 3. Average age of A, B, D and E is 40 years
  - (A) Only land 2
  - (B) Only land 3
  - (C) Only 2 and 3
  - (D) All 1,2 and 3
  - (E) None of these
- 27. What is the area of the right angled triangle?
  - 1. Base of the triangle is X cm.
  - 2. Height of the triangle is Y cm.
  - 3. Hypotenuse of the triangle is  $Z\ cm$ .
  - (A) Only land 2
  - (B) Only 2
  - (C) Only 2 and 3
  - (D) Any two of three
  - (E) None of these
- 28. In how many days will B alone complete the work?
  - A and B together can complete the work in 8 days.
  - B and C together can complete the work in 10 days.
  - 3. A and C together can complete the work in 12 days.
  - (A) Only land 2
  - (B) Only 2 and 3

- (C) All 1,2 and 3
- (D) Question cannot be answered even with the information in all the three statements
- (E) None of these
- 29. What is the rate of interest p.c.p.a.
  - 1. An amount doubles itself at simple interest in 10 years.
  - Difference between the compound interest and simple interest on an amount of Rs. 15,000 in two years is Rs. 150.
  - 3. The compound interest accrued in 8 years is more than the amount (principal).
  - (A) Onlyl
  - (B) Only 2
  - (C) Only 2 and 3
  - (D) Only land 3
  - (E) Only either 1 or 2
- 30. What are the marks scored by Abhijit in English?
  - Marks scored by Abhijit in Maths are more than his marks in Science by 20.
  - Total marks scored by Abhijit in Maths, Science and English are 198.
  - Marks scored by Abhijit in Science are more than his marks in English by 12.
  - (A) Any two of the three
  - (B) Only 2 and 3
  - (C) All 1,2 and 3
  - (D) Question cannot be answered even with the information in all the three statements
  - (E) None of these

 ${\bf Directions}-(Q.~31\text{-}35)$  Study the following table carefully to answer these questions:

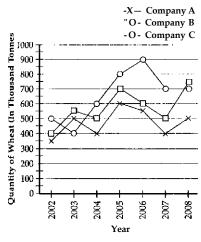
## Table giving Number of Candidates Appeared in the Examination and Percentage of Students Passed from Various Institutes Over the Years

	Institute											
Year	Year A		В		С		D		Е		F	
	App.	% Pass	App.	% Pass	App.	% Pass	App.	% Pass	App.	% Pass	App.	% Pass
2001	450	60	540	40	300	65	640	50	600	45	680	60
2002	520	50	430	70	350	60	620	40	580	70	560	70
2003	430	60	490	70	380	50	580	50	680	70	700	66
2004	400	65	600	75	450	70	600	75	720	60	780	70
2005	480	50	570	50	400	75	700	65	700	48	560	50
2006	550	40	450	60	500	68	750	60	450	50	650	60
2007	500	58	470	60	470	60	720	70	560	60	720	50

- 31. What is the ratio between the number of students passed from institute F in 2003 and the number of students passed from institute B in 2005 respectively?
  - (A) 95:154
- (B) 154:95
- (C) 94:155
- (D) 155:94
- (E) None of these
- 32. What is the ratio between the average number of students appeared from institute A for all the years and that from institute D respectively ?
  - (A) 463:353
    - (B) 353:463 (D) 333:461
  - (C) 461:333
  - (E) None of these
- 33. What is the total number of students passed from all institutes together in year 2006?
  - (A) 1895
- (B) 1985
- (C) 1295
- (D) 1465
- (E) None of these
- 34. What is the overall percentage of students passed from all institutes together irr2004 ? (rounded off to nearest integer)
  - (A) 68
- (B) 70
- (C) 69
- (D) 71
- (E) None of these
- 35. Approximately, what is the overall percentage of students passed from institute C for all the years ?
  - (A) 60
- (B) 70
- (C) 75 (E) 65
- (D) 55

Directions - (Q. 36^10) Study the following graph carefully to answer these questions:

#### Quantity of Wheat (in Thousand tonnes) Exported by Three Countries over the Years



- 36. What is the per cent increase in exports of company C from 2004 to 2008 ?
  - (A) 50
- (B) 33-33
- (C) 150
- (D) 133-33
- (E) None of these
- 37. Total exports of company A for all the years are approximately what per cent of the total exports of company B for all the years?
  - (A) 75
- (B) 128 (D) 68
- (C) 139
- (E) 72
- Per cent rise in exports from the previous year was the maximum during which year for company 'B'?
  - (A) 2005
  - (B) 2004
  - (C) 2006
  - (D) 2008
  - (E) None of these
- 39. What are the average exports of company B for all the years? (in thousand tonnes rounded off to two digits after decimal)
  - (A) 766-67
  - , (B) 667-14
    - (C) 657-14
    - (D) 756-57
    - (E) None of these
- 40. What is the ratio between total exports of the three companies in 2003 and 2006 respectively?
  - (A) 41:29
- (B) 51:29
- (C) 29:51
- (D) 29:41
- (E) None of these

- 41. What are the average marks obtained by all the students in Science out of 150 ?
  - (A) 75
- (B) 112-50

(D) 78

- (C) 108-50
- (E) None of these
- What are the average marks obtained by all students in Geography ?
  - (A) 54-25
  - (B) 54-75
  - (C) 73
  - (D) 71
  - (E) None of these
- 43. What is the ratio between total marks obtained by D in Maths, Science and English together and the total marks obtained by F in these subjects together respectively ?
  - (A) 209:215
  - (B) 215:209
  - (C) 206:223
  - (D) 223:206
  - (E) None of these
- 44. Marks obtained by C in Science are approximately what per cent of his total marks obtained in all the six subjects together?
  - (A) 22
- (B) 16
- (C) 20
- (D) 18
- (E) 28
- 45. What are the total marks obtained by 'B' in all the subjects together ?
  - (A) 336
- (B) 223
- (C) 446
- (D) 273
- (E) None of these

Directions - (O. 41-45) Study the following table carefully to answer these questions:

#### Percentage of Marks Obtained by Six Students in Six Subjects

	Subject						
	History	Geography	Maths	Science	English	Hindi	
Student	Max. Marks						
	75	75	100	150	50	60	
	Percentage						
A	82	66	59	76	62	65	
В	76	72	65	84	74	75	
С	56	78	71	66	86	70	
D	64	80	68	72	66	80	
Е	48	68	83	88	56	60	
F	60	74	79	64	80	85	

**Directions**—(Q. 46-50) Study the information in the following pie charts to answer these questions:

50. What is the total number of

Scales III and IV together ?

(A) 219

(C) 162

(E) None of these

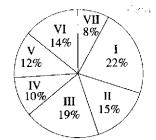
female employees working in

(B) 157

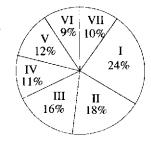
(D) 285

# Details of 1500 Employees Working in an Organisation in Various Scales

### Breakup of 1500 Employees Across the scales



## Breakup of 800 Male Employees Across the Scales



46. Number of male employees working in Scale VI are what per cent of the total number of employees in that scale ?

(Rounded off to nearest integer)

- (A) 35
- (B) 46
- (C) 44
- (D) 34
- (E) None of these
- 47. What is the ratio between female employees in Scale VI and male employees in Scale I respectively?
  - (A) 32:23
- (B) 22:33
- (C) 12:23
- (D) 23:12
- (E) None of these
- 48. What is the ratio between male and female employees respectively working in Scale V ?
  - (A) 7:8
- (B) 2:1
- (C) 8:7
- (D) 1:2
- (E) None of these
- 49. How many females are working in Scale II ?
  - (A) 144
- (B) 81
- (C) 96
- (D) 138
- (E) None of these