

**Reasoning Ability**

**Directions (Q. 1-5)** In the following questions, find out the correct pair of words which will make an appropriate analogical relationship between the two words to the left of the sign of double colon and the same relationship between the two words to the right of the sign of double colon (: :).

1. A : Ship : : Platform : B  
a) A. Caption, B. Coolie  
b) A. Port, B. Station  
c) A. Quay, B. Train  
d) A. Shore, B. Bench  
e) None of these
2. A : Roots : : House : B  
a) A. Branches, B. Walls  
b) A. Trunk, B. Floor  
c) A. Flower, B. Walls  
d) A. Tree, B. Foundation  
e) None of these
3. A : Square : : Arc : B  
a) A. Line, B. Circle  
b) A. perimeter, B. Circumference  
c) A. Line, B. Diameter  
d) A. Rectangle, B. Chord  
e) None of these
4. A : Flower : : Milky way : B  
a) A. Plant, B. Sky  
b) A. Fruit, B. Planet  
c) A. Plant, B. Galaxy  
d) A. Garden, B. Star  
e) None of these
5. A : Water : : Thermometer : B  
a) A. Humidity, B. Fever  
b) A. Pitcher, B. Mercury  
c) A. Rain, B. Doctor  
d) A. Evaporation, B. Temperature  
e) None of these

**Directions (Q. 6-10)** In the following questions, three or four alternatives are some in a certain way out of four or five and so form a group. Find the odd word that does not belong to the group.

6. a) Cello                      b) Guitar                      c) Flute  
d) Violin                      e) None of these
7. a) Sweetness                b) Elegant                    c) Bright  
d) Beautiful                e) None of these
8. a) Mile                      b) Centimetre                c) Litre  
d) Yard                      e) None of these
9. a) Eyes                      b) Ears                        c) Throat

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- d) Skin e) None of these
10. a) 14<sup>th</sup> November b) 15<sup>th</sup> August c) 26<sup>th</sup> January  
d) 2<sup>nd</sup> October e) None of these
11. In a certain code language 'MADRAS' is written as 'DAMSAR' how can 'MUMBAI' be written in that code language?  
a) BAIUMM b) MUMIAB c) IABMUM  
d) MBIAUM e) None of these
12. If in a certain code 'INSTITUTION' is written as 'NOITUTITSNI'. How will 'PERFECTION' be written in that language?  
a) NOICTEFREP  
b) NOITCEFERP  
c) NOITCEFRPE  
d) NOITCEFREP  
e) None of these
13. Seema's younger brother Sohan is older than Seeta. Sweta is younger than Deepti but elder than Seema. Who is the eldest?  
a) Seema b) Sweta c) Seeta  
d) Deepti e) None of these
14. Rashmi is 14<sup>th</sup> from the right end in a row of 40 girls. What is her position from the left end?  
a) 25<sup>th</sup> b) 27<sup>th</sup> c) 21<sup>st</sup>  
d) Can't be determined e) None of these
15. Ayush remembers that Sanjay's birthday is certainly after January 12 but not later than 16<sup>th</sup> January. If Mehar remembers that Sanjay's birthday is before 17<sup>th</sup> of January but not before 13<sup>th</sup> January. On which of the following day was Sanjay's birthday?  
a) 14<sup>th</sup> b) 15<sup>th</sup> c) 16<sup>th</sup>  
d) Either 14<sup>th</sup> or 15<sup>th</sup> e) None of these
16. If '+' means '÷', '÷' means '-', '-' means '×' and '×' means '+', then  $12 + 6 \div 3 - 2 \times 8 = ?$   
a) -2 b) 4 c) 2  
d) 8 e) None of these

**Directions (Q. 17-21)** In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions.

Give answer:

- (a) If only conclusion I follows  
(b) If only conclusion II follows  
(c) If either conclusion I or II follows  
(d) If neither conclusion I nor II follows  
(e) If both conclusions I and II follow
17. **Statements:**  $L > M, M > N, N > P$   
**Conclusions:** I.  $L > P$  II.  $M > P$
18. **Statements:**  $A > B, B = H, H > G$   
**Conclusions:** I.  $A > G$  II.  $A > H$
19. **Statements:**  $H < J, F < H, I = J = K$   
**Conclusions:** I.  $H > I$  II.  $I = F$

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20. **Statements:**  $A < B < C$   $D = E$   
**Conclusions:** I.  $B < E$  II.  $B < C$
21. **Statements:**  $P > M > Q, Q > Z > N$   
**Conclusions:** I.  $M < Z$  II.  $N < P$

**Directions (Q. 22-27)** In the following questions, the symbols  $\odot$ ,  $\%$ ,  $\$$  and  $@$  are used with the following meaning as illustrated below.

$P \odot Q$  means P is either smaller than or equal to Q.

$P \% Q$  means P is smaller than Q.

$P @ Q$  means P is equal to Q.

$P * Q$  means P is either greater than or equal to Q.

$P \$ Q$  means P is greater than Q.

Now in each of the following questions, assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true?

**Give answer:**

- (a) If only conclusion I is true  
(b) If only conclusion II is true  
(c) If either conclusion I or II is true  
(d) If neither conclusion I nor II is true  
(e) If both conclusion I and II are true

22. **Statements:**  $M \% T, T \$ K, K \odot D$   
**Conclusions:** I.  $T \$ D$  II.  $D \$ M$

23. **Statements:**  $F @ B, B \% N, N \$ H$   
**Conclusions:** I.  $N \$ F$  II.  $H \$ F$

24. **Statements:**  $R * M, M @ K, K \odot J$   
**Conclusions:** I.  $J \$ M$  II.  $J @ M$

25. **Statements:**  $B \$ N, N * R, R @ K$   
**Conclusions:** I.  $K \odot N$  II.  $B \$ K$

26. **Statements:**  $J \odot K, K \$ N, N * D$   
**Conclusions:** I.  $J \% N$  II.  $D \% K$

27. **Statements:**  $R @ D, D \odot M, M \$ T$   
**Conclusions:** I.  $T \% D$  II.  $M * R$

28. Neelam, who is Rohit's daughter, says to Indu, your mother Reeta is the younger sister of my father, who is third child of Sohanji. How is Sohanji related to Indu?

- a) Maternal Uncle                      b) Father                      c) Grandfather  
d) Father-in-law                      e) None of these

29. If ' $A \times D$ ' means 'A is sister of D', ' $A + D$ ' means 'D is the daughter of A' and ' $A \div D$ ' means 'A is the mother of D', then how will 'N is the aunt of M' be denoted?

- a)  $M + L \times N$   
b)  $M \div L + N$   
c)  $L \times N \div M$   
d)  $N \times L \div M$   
e) None of these



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- C. The candidate should have the ability to read, write and speak English and Hindi besides the foreign language to which he/she has applied.
- D. The candidate should have his/her own accommodation, either rental or own, in Delhi.

However, if a candidate fulfills all criteria except.

- (i) At D but he/she has accommodation either rental or own, in NCT Delhi, his/her case is to be referred to foreign secretary.
- (ii) At B but he/she has a PG degree in any discipline, his/her case is to be referred to personal assistant, foreign secretary.

Now, based on the above criteria and the information given below, you have to take decision in regard to each case. You are not to assume any information which is not available.

**Give answer:**

- (a) If to be referred to foreign secretary
- (b) If to be referred to PA foreign secretary
- (c) If data is inadequate
- (d) If to be selected
- (e) If not to be selected

39. Sweta Singh is a Hindi Hons. Graduate from Hindu College, Delhi. Recently, she has celebrated her 23<sup>rd</sup> birthday on 09<sup>th</sup> January, 2006. She possesses her own house in Vikaspuri, Delhi. She can speak, write and read English, Hindi and French equally well.
40. Miss Anu knows how to speak, write and read Hindi, English and Portuguese. She also knows how to handle computers. She has done GNIIT after doing her graduation from a recognized university. She can arrange a house in Delhi for her accommodation.
41. Pinki has done her graduation from Oxford University. Her date of birth is 09<sup>th</sup> November, 1979. She knows how to speak, write and read Hindi, English and Spanish. Her grandfather owns a house in Ghaziabad, in NCT, Delhi. She can live with her grandfather during her job in Delhi.
42. Kiran, wife of Ajay and a graduate from a recognized university, lives with her husband at Kamla Nagar in North. Delhi in their rental house. She has passed her post-graduation in History in February, 2003 at the age of 23 years. She can speak, read and write Maithili, Hindi, English and Nepali. Three languages Nepali, Maithili and Bhojpuri are being spoken in Nepal.
43. Reena has done the graduation from Jabalpur University, Madhya Pradesh. She can arrange her accommodation with her brother-in-law in Delhi. Her date of birth is 12<sup>th</sup> January, 1983. She can speak more than two languages including a foreign language.

**Directions (Q. 44-50)** In each of the questions below is given a statement followed by three courses of action numbered I, II and III. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action in regard to the problem, policy, etc. On the basis of information given in the statement, you have to assume everything in the statement to be true and then decide which of the three given suggested courses of action logically follows worth pursuing. Then, decide which of the alternatives (a), (b), (c), (d) or (e) is correct.

44. **Statement:** The army has been alerted in the District following floods triggered by incessant rains.

**Courses of action**

- I. Relief to flood affected people should be arranged.
- II. Supply of flood articles should be arranged.
- III. Adequate medical facilities should be arranged.

- a) Only I follows
- b) Only II follows
- c) Both I and III follow
- d) All follow

e) None of these

45. **Statement:** Faced with a serious resource crunch and a depressing overall economic scenario, the state 'X' is unlikely to achieve the targeted percent compound annual growth rate during the 10<sup>th</sup> plan.

**Courses of action**

- I. The target growth should be reduced for the next plan.  
II. The reasons for the failures should be studied.  
III. The state 'X's performance should be compared with that of other states.

- a) Only I follows  
b) Both I and III follow  
c) Both II and III follow  
d) None follows  
e) None of these

46. **Statement:** Over 27000 bonded labourers identified and freed are still awaiting rehabilitation.

**Courses of action**

- I. More cases of bonded labourers should be identified.  
II. Till the proper rehabilitation facilities are available, the bonded labourers should not be freed.  
III. The impediments in the way of speedy and proper rehabilitation of bonded labourers should be removed.

- a) Only I follows  
b) Only II follows  
c) Only III follows  
d) Both II and III follow  
e) None of these

47. **Statement:** Higher disposal costs encourage those who produce waste to look for cheaper ways to get rid of it.

**Courses of action**

- I. The disposal costs should be made higher.  
II. The disposal costs should be brought down.  
III. A committee should be set up to study the details in this respect.

- a) Only I follows  
b) Only II follows  
c) Either I or II follows  
d) Both II and III follow  
e) None of these

48. **Statement:** If the faculty members also join the strike, there is going to be a serious problem.

**Courses of action**

- I. The faculty members should be persuaded not to go on strike.  
II. Those faculty members who join the strike should be suspended.  
III. The management should not worry about such small things.

- a) Only I follows  
b) Only II follows  
c) Both II and III follow  
d) None follows  
e) None of these

49. **Statement:** According to the officials, paucity of funds with the organization has led to the pathetic condition of this brilliant architectural structure.

**Courses of action**

- I. A new architectural structure for the building should be designed.

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- II. The reasons for the poor condition of the structure should be found out.  
III. Grant should be given to improve the condition of the structure.
- a) Only I follows  
b) Only II follows  
c) Only III follows  
d) Both II and III follow  
e) None of these

50. **Statement:** In the Teacher's Day function, Shri Sharma, a State Awardee and a retired Principal, had questioned the celebration of Teacher's Day in today's materialistic World.

### Courses of action

- I. The expenditure of Teacher's Day celebration should be reduced.  
II. More funds should be allocated for the celebration of Teacher's Day.  
III. The role and responsibilities of teachers should be seen in today's perspective.
- a) All follow  
b) None follows  
c) Either I or II follows  
d) Only III follows  
e) None of these

## English Language

**Directions (Q. 51-65)** Read the following passage carefully and answer the questions given below it. Certain words have been printed in bold to help you locate them while answering some of the questions.

Indeed the western recession is really the beginning of good news for India. But to understand that we will have to move away for a while from the topic of western recession ... To the Japanese recession! For years the Japanese style of management has been admired. However, over the last decade or so, one **key** question has sprung up if Japanese management style is as wonderful as described then why has Japan been in a recession for more than a decade?

The answer to this question is very simple, Culture plays a very important part in shaping up economies. What succeeds in one culture fails in another. Japanese are basically non-materialistic. And however rich they are buying endlessly. And once they have everything they need, there is a saturation point. It was only when companies like Toyota realized that they cannot keep selling cars endlessly to their home market that they went really **aggressive** in the western markets and the rest is history. Japanese companies grew bigger by **catering** to the World markets when their home markets shrunk.

And the markets have to shrink finally after attaining a level of affluence. And that's great for the World because earth needs sustainable development. It does not need monstrous consumers who keep consuming at the cost of the environment and the earth. There should be limits to growth so that consumers are not converted into material dustbins for the profit to a handful of corporations.

Owing to the materialistic culture elsewhere, it was possible to keep selling newer products to the consumers despite having existing ones which served equally well. They were lured through advertising and marketing techniques of 'dustbinisation' of the customer and then finally, once they became ready customers, they were given loans and credits to help them buy more and more. When all the creditworthy people were given loans to a logical limit, they ceased to be a part of the market. Even this would have been understandable if it could work as an eye opener. Instead of taking the 'Right Step' as Toyota did, they preferred to take a 'shortcut'. Now banks went to the non-creditworthy people and gave them loans. The people expectedly defaulted and the entire system collapsed.

Now, like Toyota western companies will learn to find new markets. They will now lean towards India because of its common man. The billion plus population in the next 25 years will





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- d) Only A and C                      e) None of these

56. Which of the following was not an effect of providing loans and credits to the customers?

- A. The non-creditworthy people defaulted.  
B. People bought new products which were not needed.  
C. Poverty became non-existent.  
a) Only A                      b) Only B                      c) Only A and B  
d) Only B and C                      e) Only C

57. Why is recession the beginning of good news for India in the author's view?

- A. India can provide an attractive market to the western companies.  
B. India has remained largely unaffected by recession owing to its huge population.  
C. Indians keep purchasing products despite owning equally good products.  
a) Only C                      b) Only B                      c) Only A  
d) Only B and C                      e) None of these

58. What does the author mean by 'Dustbinisation of the customer'?

- a) Convincing the customer to buy products he does not need  
b) Denying the non-creditworthy people of any loans  
c) Denying more loans to people who have already taken loans to a logical limit  
d) Moving from old customers at the home market to foreign markets  
e) None of these

59. Why according to the author is the current recession great for 'Planet Earth'?

- A. It will make people non-materialistic like the Japanese.  
B. The unlimited market growth which caused hazards to the environment would be checked to a certain extent.  
C. Banks will now provide loans only to the creditworthy people.  
D. Developing countries will also be benefited by shifted markets.  
a) Only A                      b) Only B and D                      c) Only A and B  
d) Only B                      e) None of these

**Directions (Q. 60-62)** Choose the word which is most similar in meaning to the word printed in bold as used in the passage.

60. Catering  
a) Considering                      b) Lending                      c) Supplying  
d) Working                      e) Indulging
61. Key  
a) Foundation                      b) Solution                      c) Requisite  
d) Difficult                      e) Important
62. Aggressive  
a) Violent                      b) Determined                      c) Demanding  
d) Offensive                      e) Brutish

**Directions (Q. 63-65)** Choose the word which is most opposite in meaning to the word printed in bold as used in the passage.

63. Prosperous  
a) Distressed                      b) Helpless                      c) Worse  
d) Worthless                      e) Underprivileged
64. Consuming

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- a) Destroying  
d) Curtailing
- b) Exhausting  
e) Spending
- c) Greedy

65. Surge  
a) Decrease  
d) Atrophy
- b) Deteriorating  
e) Crumble
- c) Weakening

**Directions (Q. 66-70)** Read each sentence to find out whether there is any grammatical error in it. The error if any will be in one part of the sentence, the number of that part is the answer. If there is no error, mark (5) as the answer. (Ignore errors of punctuation, if any)

66. To be a king and (1) / wear a crown are (2) / more glamorous to (3) see than to bear. (4) No error (5)
67. None of the student (1) / in the class (2) / scored below the (3) / given cut-off marks. (4) No error (5)
68. Ashok is among the (1) / few people in the World (2) / which did not blindly follow (3) / the path of others. (4) No error (5)
69. Most people like to (1) / rest after a day's hard work (2) / but he seemed to have (3) / an inexhaustive supply of energy. (4) No error (5)
70. Ancient artifacts are (1) / a part of global heritage (2) / and should not be (3) sold to the highest bidder. (4) No error (5)

**Directions (Q. 71-75)** Which of the phrases (1), (2), (3) and (4) given below each statement should replace the phrase printed in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required mark (5) as the answer.

71. Alcohol in moderate quantity boosts concentration of good cholesterol and **inhibiting blood clots**.  
a) inhibits blood clots  
b) inhibit blood clots  
c) inhibited blood clots  
d) inhabiting blood clots  
e) No correction required
72. One of the **main function of** the State is maintenance of law and order.  
a) main function for  
b) main functions of  
c) main functions for  
d) main functions off  
e) No correction required
73. We must realize that learning from **mistakes is an** important part of life.  
a) mistakes are an  
b) mistakes are a  
c) mistake are a  
d) mistakes has an  
e) No correction required
74. The sword of Tipu Sultan was recently **brought at an** auction by an Indian for Rs.2 Crores.  
a) brought in a  
b) brought in an  
c) bought in an  
d) bought at a  
e) No correction required

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75. Setbacks and failures **has always been** an integral part of science.
- has always being
  - were always been
  - has been always
  - have always been
  - No correction required

**Directions (Q. 76-80)** Each question below has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank that best fits the meaning of the sentence as a whole.

76. Many teachers \_\_\_\_ the lack of professional freedom as the \_\_\_\_ for leaving the job.
- cited, reason
  - explained, force
  - claimed, understanding
  - argued, culprit
  - believe, ground
77. Skeptics would not \_\_\_\_ that the earth actually moves, let alone that it \_\_\_\_ around the sun.
- permit, orbits
  - accept, revolves
  - experience, circles
  - assume, went
  - challenge, spins
78. Unpredictable \_\_\_\_ of the child could not lead the consultants to any \_\_\_\_.
- performance, setting
  - belief, judgement
  - operation, purpose
  - behavior, conclusion
  - react, decision
79. A public servant who is guilty will not \_\_\_\_ punishment and no \_\_\_\_ person will be punished.
- be, sincere
  - flee, guilty
  - defend, common
  - avoid, uninformed
  - escape, innocent
80. Few professions can \_\_\_\_ the sheer variety and constant \_\_\_\_ of being a doctor.
- like, struggle
  - share, enthusiast
  - match, challenge
  - draw, work-load
  - justify, exception

**Directions (Q. 81-90)** In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Twenty years (111) now, nearly 60% of the World's population will live in urban areas. The impact of urbanization might not all be positive on India as urban expansion is happening at a much (112) rate than infrastructure expansion.

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Sustainability issues need to be (113) so that economic development is not at the (114) of public health. Some urban services that ought to be in (115) in a city like water, electricity, transport etc. need special consideration.

TERI has put together a detailed report that (116) sustainability in the provision of basic urban services in Indian cities.

(117) public transport is a major reason for the proliferation of private vehicles on the road. Respiratory illness in children living in urban areas is on the (118) with more cases of Asthma being (119) because of pollution. The future of cities of Indian dreams depends of (120) we can build better cities today.

- |                                       |                               |               |
|---------------------------------------|-------------------------------|---------------|
| 81. a) till<br>d) after               | b) since<br>e) on             | c) from       |
| 82. a) faster<br>d) speed             | b) slower<br>e) quick         | c) changed    |
| 83. a) speculated<br>d) considered    | b) believed<br>e) understand  | c) imagined   |
| 84. a) payment<br>d) charge           | b) rate<br>e) expense         | c) costs      |
| 85. a) abundance<br>d) vicinity       | b) large<br>e) location       | c) functional |
| 86. a) bring<br>d) postulates         | b) emphasizes<br>e) requests  | c) speculates |
| 87. a) Good<br>d) Inadequate          | b) Competent<br>e) Sufficient | c) Absence    |
| 88. a) multiplication<br>d) inflation | b) expansion<br>e) grow       | c) rise       |
| 89. a) produced<br>d) resulted        | b) develop<br>e) reported     | c) composed   |
| 90. a) if<br>d) provided              | b) whether<br>e) weather      | c) unless     |

**Directions (Q. 91-95)** In each of the following questions, rearrange the given sentences (A), (B), (C) and (D) and indicate the correct sequence in which these sentences must appear so as to make a meaningful paragraph.

91. A. By increasing these connections the intelligence is also increased.  
B. Classical music has been proved to be very helpful in child development.  
C. Many doctors now-a-days use it for therapeutic purposes which are based upon the findings of this research.  
D. The research has demonstrated that listening to classical music increases the rate of nervous connections in brain.
- |         |         |         |
|---------|---------|---------|
| a) BDCA | b) DBAC | c) ACBD |
| d) BDAC | e) BCAD |         |
92. A. This right however comes along with the responsibility which the press is forced to work with.



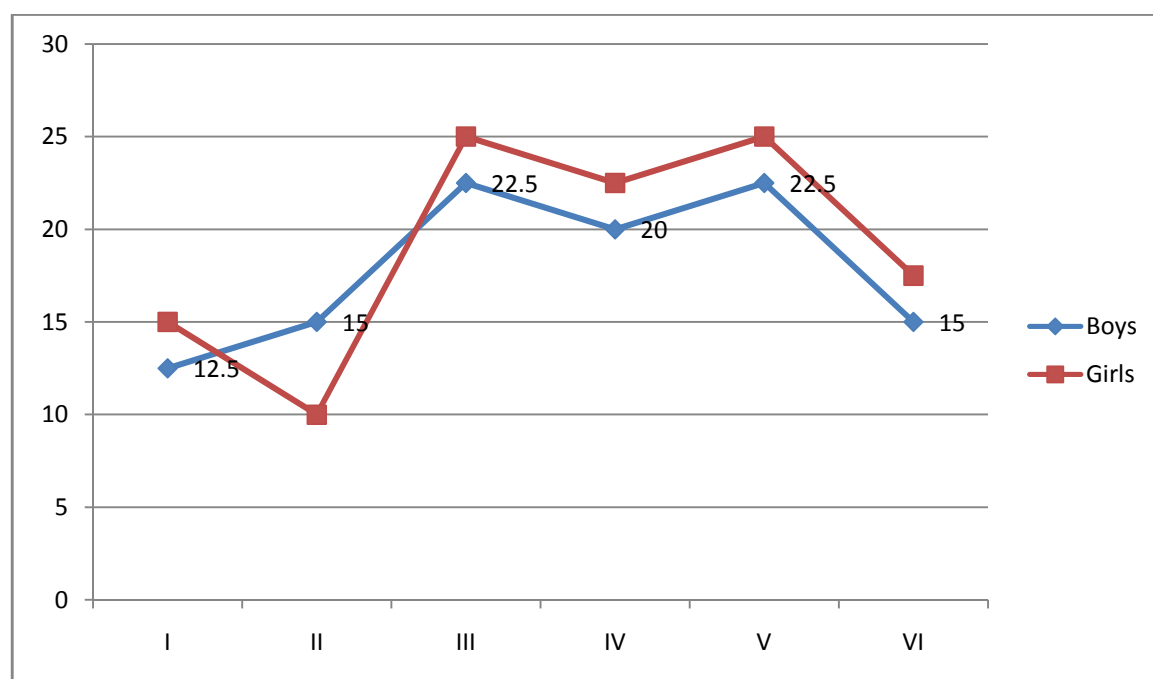
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- d) E e) A
98. Which of the following sentence should be the 1<sup>st</sup> after rearrangement?  
a) A b) C c) D  
d) E e) F
99. Which of the following sentences should be the 2<sup>nd</sup> after rearrangement?  
a) A b) B c) C  
d) E e) E
100. Which of the following sentences should be the 3<sup>rd</sup> after rearrangement?  
a) B b) C c) F  
d) D e) A

### Data Analysis & Interpretation

**Directions (Q. 101-105)** Study the following graph carefully to answer the questions.

Number of students studying in different standards of a school (number in hundreds)



101. What is the approximate average number of girls studying in all the standards together?  
a) 1193 b) 1917 c) 1534  
d) 2246 e) 2048
102. The number of boys studying in standard VI is what percent of the total number of boys studying in all the standards together? (rounded off to two digits after decimal)  
a) 13.95 b) 16.21 c) 10.45  
d) 13.22 e) None of these
103. The number of girls studying in standard V is what percent of the total number of students studying in all the standards together? (rounded off to the nearest integer)









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- d) 7400 e) None of these

119. What is the difference between the number of females in organization B and the number of females in organization E?

- a) 210 b) 350 c) 170  
d) 300 e) None of these

120. What is the number of females in organization D?

- a) 3855 b) 3250 c) 3300  
d) 3675 e) None of these

**Directions (Q. 121-125)** Study the following profile of parliament carefully and answer the questions given below it.

### Profile of Parliament in year XXXX

Total members in Parliament = 640 (490 from LokSabha and 150 from RajyaSabha)

LokSabha (no. of members)	Party	RajyaSabha (no. of members)
280	A	90
180	B	45
30	Others	15
490	Total	150
<b>Sex</b>		
435	Males	120
55	Females	30
<b>Religion</b>		
348	Hindus	85
42	Muslims	20
75	Sikhs	35
25	Christians	10
<b>Profession</b>		
300	Graduates	50
45	Businessmen	19
60	Educators	11
85	Unknown	70

121. What is the approximate percentage of the Muslim members in LokSabha?

- a) 9% b) 11% c) 13%  
d) 14% e) 7%

122. In RajyaSabha if 30 male members were replaced by 30 female members, then what is the ratio of male members to female members respectively?

- a) 3 : 1 b) 3 : 2 c) 1 : 3  
d) 2 : 3 e) 2 : 1

123. What percentage of members in Parliament are businessmen?

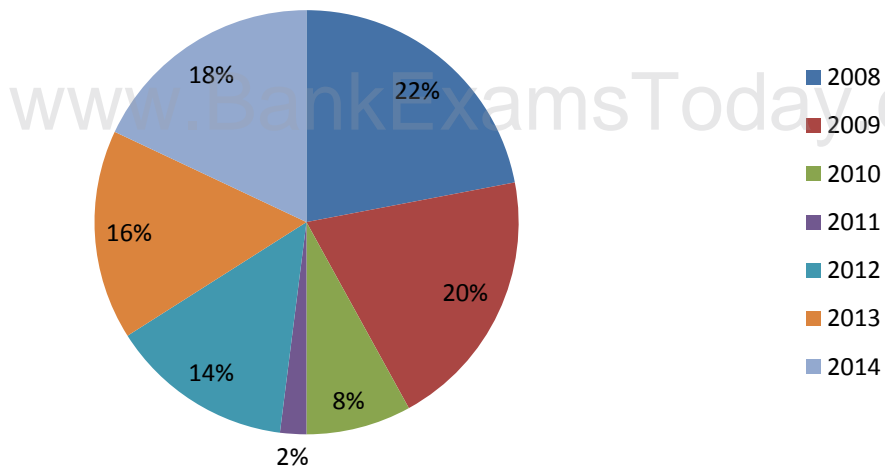
- a) 8% b) 20% c) 30%  
d) 18% e) 10%

124. If all the 'others' party members of LokSabha join the party 'B' then what would be the ratio between members of party 'A' to the members of party 'B' respectively?

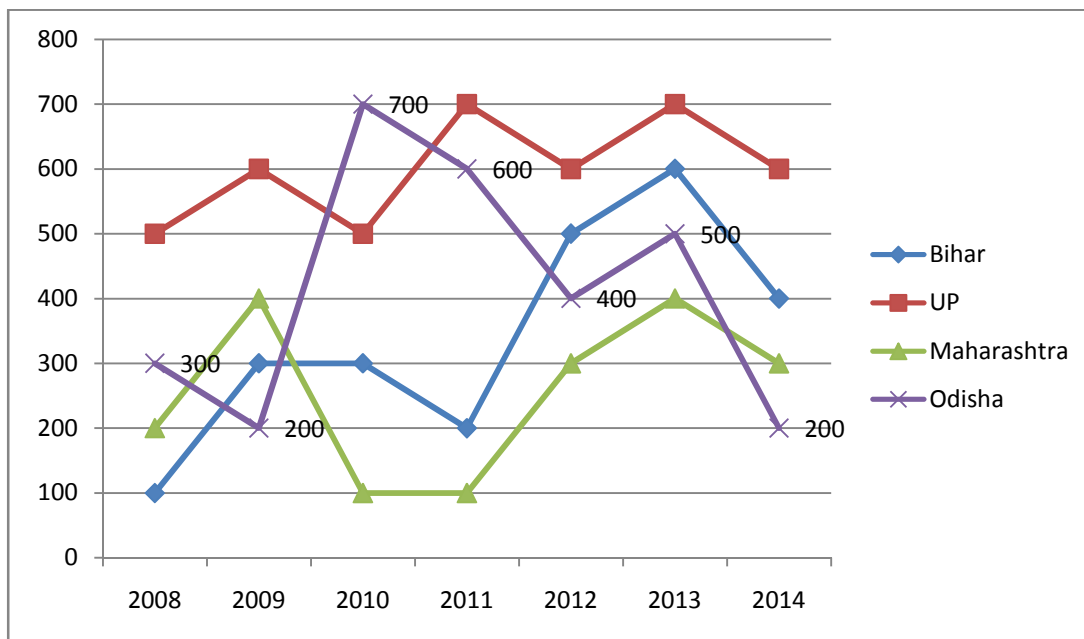
- a) 3 : 2 b) 6 : 5 c) 4 : 3  
d) 7 : 6 e) 4 : 5



**Total number of train accidents = 200**



**The line graph shows the number of persons who died in train accidents in various states in different years**



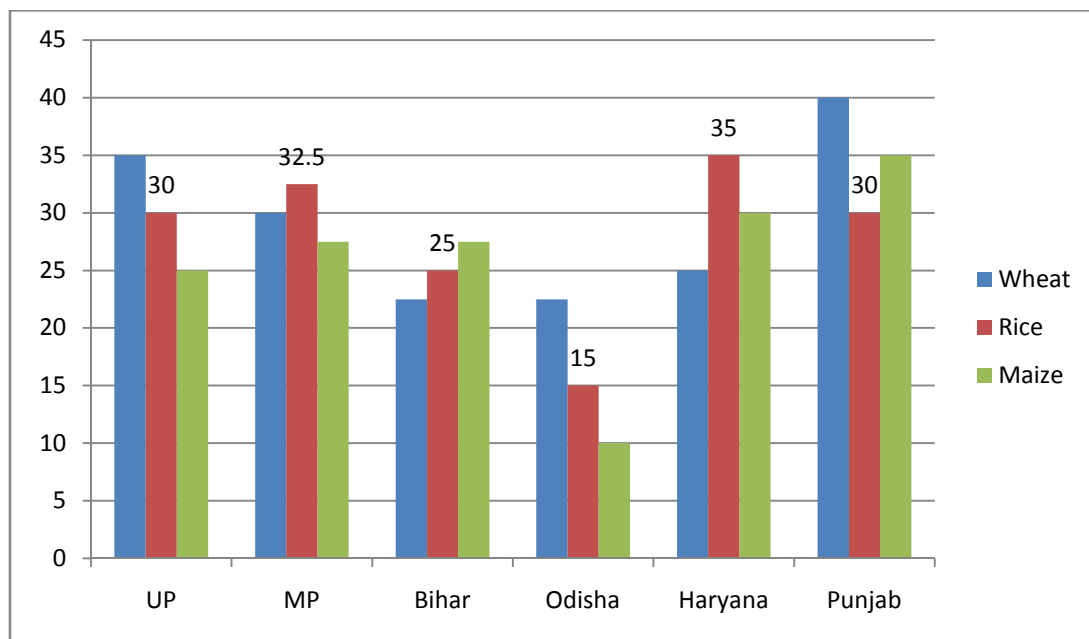
131. The number of persons who died in train accidents in 2013 is how much percent more than the number of persons who died in the train accident in 2011?
- a) 143.5%                      b) 137.5%                      c) 37.5%
- d) 127.5%                      e) 147.5%
132. What is the average of the number of persons who died in train accidents in 2008 in all states together?
- a) 182                              b) 290                              c) 275
- d) 284                              e) 307

## SBI PO Mains Practice Paper -2

133. In which state is the number of persons who died in the train accidents the maximum during the given period?  
 a) Odisha                      b) UP                                      c) Bihar  
 d) Only a) and b)              e) Maharashtra
134. What is the difference between the number of train accidents in 2014 and that in 2012?  
 a) 5                                      b) 6                                      c) 7  
 d) 8                                      e) 9
135. What is the ratio of the number of persons who died in train accidents in 2010 to that in 2014?  
 a) 8 : 7                                      b) 10 : 9                                      c) 12 : 11  
 d) 14 : 13                                      e) 16 : 15

**Directions (Q. 136-140) Study the given bar graph and pie chart to answer the following questions.**

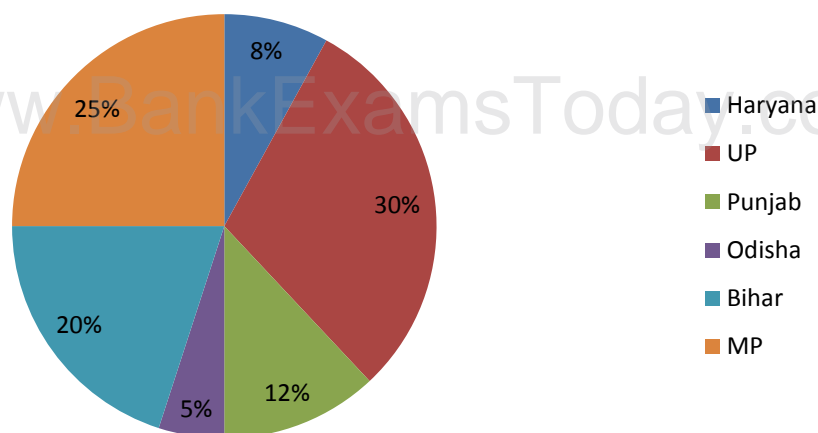
**The bar graph shows the production (in thousand tones) of Wheat, Rice and Maize in different states.**



The pie-chart shows the percentage of agricultural land in the given six states.

$$\text{Productivity} = \frac{\text{Total production}}{\text{Area of agricultural land}}$$

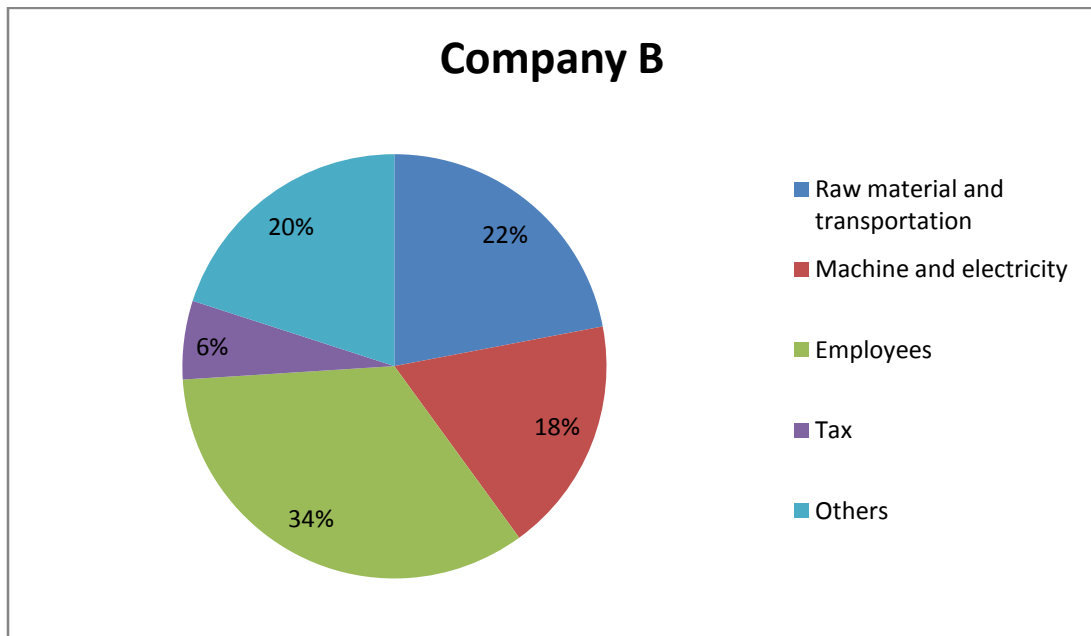
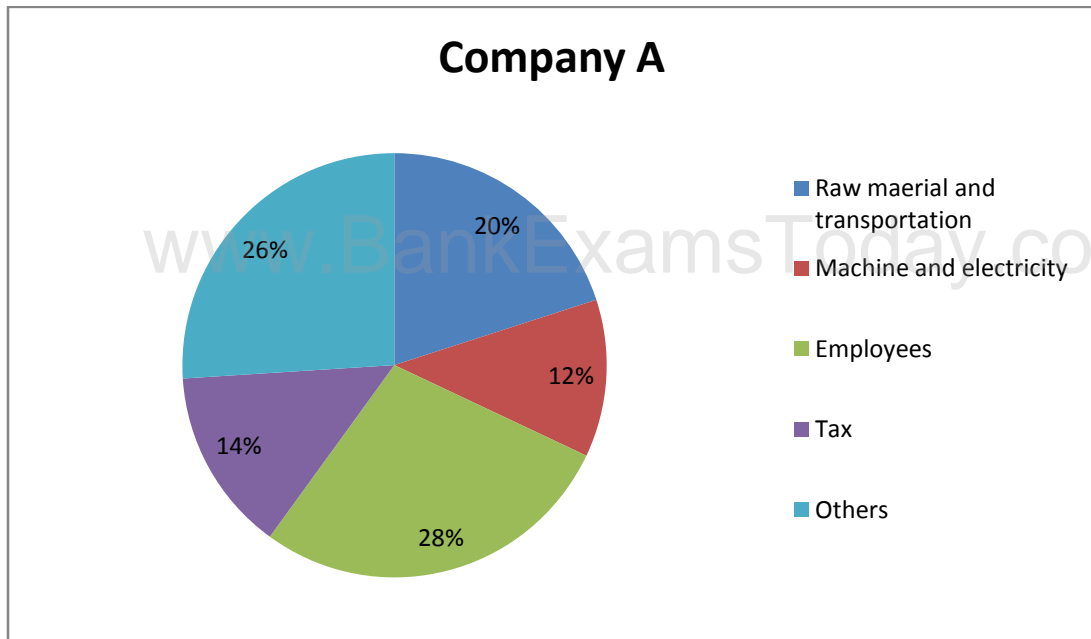
**Total agricultural land = 2 lakh square km**



136. The productivity of which state is the maximum?  
 a) Bihar                                      b) Haryana                                      c) Punjab  
 d) UP    e) MP
137. The production of which state is the maximum?  
 a) Bihar                                      b) MP    c) Haryana  
 d) UP    e) Punjab
138. The production of wheat in Punjab is what percent more than the production of Maize in Odisha?  
 a) 350%                                      b) 250%                                      c) 300%  
 d) 200%                                      e) 400%
139. What is the ratio of the production of Rice in Bihar to the production of Wheat in Haryana?  
 a) 2 : 3                                      b) 3 : 2    c) 2 : 1  
 d) 1 : 1    e) 1 : 2
140. If MP exports 40% of Rice at the rate of Rs.30 per kg and UP exports 30% of Rice at the rate of Rs.32 per kg, then what is the ratio of the incomes from the exports?  
 a) 65 : 48                                      b) 31 : 42    c) 43 : 54  
 d) 57 : 62    e) 1 : 2

**Directions (Q. 141-145) Study the following pie charts to answer the following questions.**

**The pie charts show the expenditure of two companies A and B, which are Rs.50 Lakh and Rs.60 Lakh respectively.**



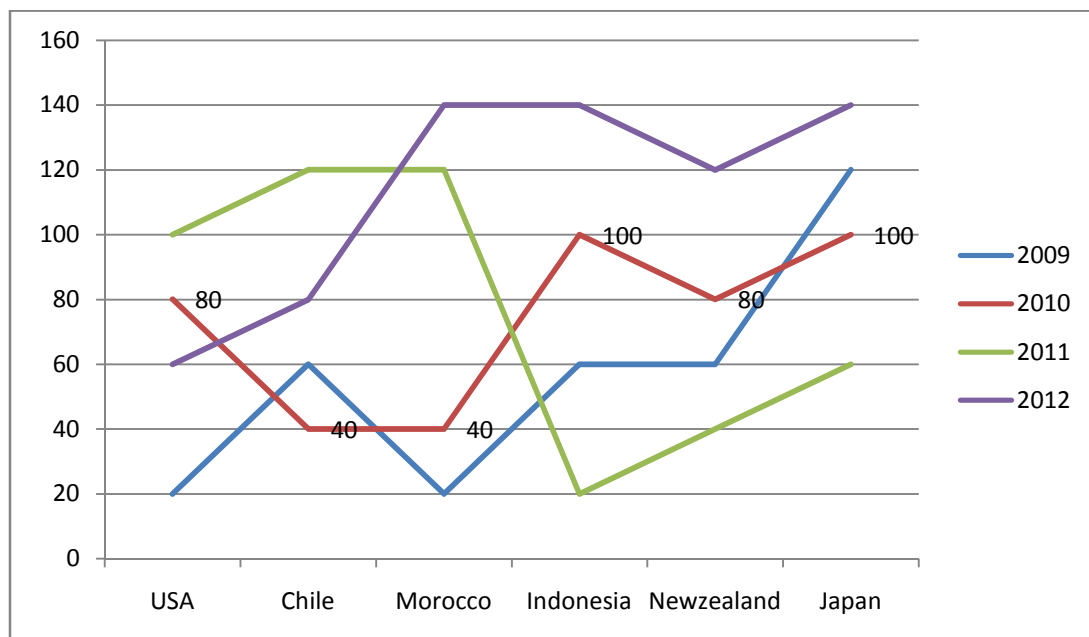
141. If the incomes of the Company A and B are in the ratio of 4 : 5 and the income of Company B is 180% of its expenditure, then what is the difference between the income of Company B and the income of Company A?  
 a) Rs.2200000      b) Rs.1900000      c) Rs.2160000  
 d) Rs.1850000      e) Rs.2250000
142. If the number of employees in Company A is a hundred then what is the average salary of the employees in Company A?  
 a) Rs.14,000      b) Rs.16,000      c) Rs.13,000  
 d) Rs.15,000      e) Rs.15,500
143. What is the ratio of tax paid by Company A to that by Company B?  
 a) 35 : 18      b) 34 : 37      c) 42 : 41  
 d) 31 : 27      e) 27 : 25

## SBI PO Mains Practice Paper -2

144. What is the difference between the expenditure on employees of Company B and that of Company A?  
 a) Rs.4300000                      b) Rs.640000                      c) Rs.5900000  
 d) Rs.8700000                      e) Rs.7800000
145. The expenditure on Machine and Electricity of Company B is what percent more than that on the same item of Company A?  
 a) 67%                      b) 84%                      c) 75%  
 d) 77%                      e) 80%

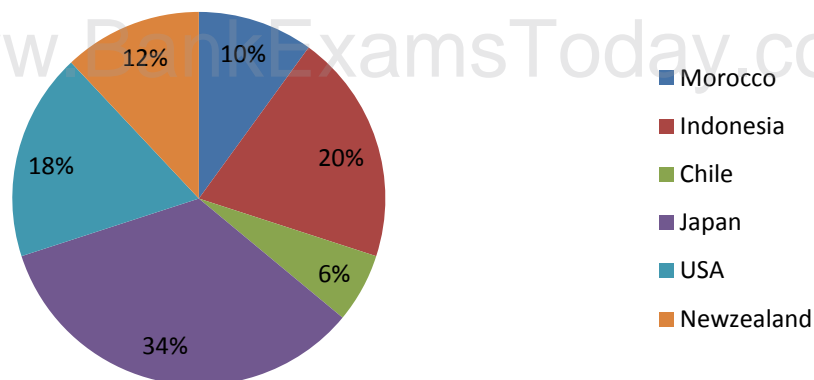
**Directions (Q. 146-150) Study the following graph and pie chart carefully to answer the given questions.**

**Number of volcano eruptions in various countries in different years**





**Percentage of the number of volcanoes in the given six countries**



**Total number of volcanoes = 1000**

146. What is the ratio of the number of volcanic eruptions in the year 2009 to that in 2011?  
 a) 31 : 47                      b) 23 : 31                      c) 17 : 23  
 d) 47 : 43                      e) 43 : 39
147. The total number of volcanic eruptions in Japan during the given four years is what percent of the total number of volcanoes in Japan?  
 a) 139.5%                      b) 137.78%                      c) 132.91%  
 d) 123.52%                      e) 104.2%
148. What is the difference between the number of volcanoes in Indonesia and the number of volcanoes in Morocco?  
 a) 120                      b) 100                      c) 150  
 d) 80                      e) 170
149. The total number of volcanic eruptions in Chile is what percent of the total number of volcanic eruptions in USA during the given four years?  
 a) 109.5%                      b) 95.51%                      c) 80.42%  
 d) 115.38%                      e) 125.78%
150. What is the ratio of the total volcanoes in Newzealand during the given four years?  
 a) 5 : 3                      b) 7 : 5                      c) 2 : 5  
 d) 3 : 4                      e) 4 : 7

**General Awareness, Marketing and Computer Knowledge**

151. Which Cricketer known as the nickname of 'Pup'  
 a) Michael Clarke  
 b) Shane Warne  
 c) Sachin Tendulkar  
 d) Matt Prior  
 e) None of these

## SBI PO Mains Practice Paper -2

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152. Who was the founder of Banaras Hindu University  
a) Pandit Madan Mohan Malviya  
b) Ram Krishan Lohiya  
c) Aditya Raj Goswami  
d) Dinanath Chauhan  
e) None of these
153. Name the capital of Himachal Pradesh  
a) Bilaspur  
b) Hamirpur  
c) Kangra  
d) Shimla  
e) None of these
154. Who appointed as Director General of Police of the State of Uttar Pradesh?  
a) A.K. Jain  
b) Ram Sharan  
c) Jagmohan Yadav  
d) Khushwant Singh  
e) None of these
155. Who awarded with US Presidential Award for Excellence ?  
a) Bobby Jindal  
b) Meenakshi Arora  
c) Aditi Khobragade  
d) Darshan Jain  
e) None of these
156. Which bank launched the 'Tatkal Project' scheme?  
a) State Bank of India  
b) Bank of India  
c) Indian Bank  
d) Punjab National Bank  
e) None of these
157. Which country won South Asian Basketball Championship held in India?  
a) Sri Lanka  
b) India  
c) Japan  
d) Russia  
e) None of these
158. Who wrote the book titled as 'A Breast Cancer Alphabet' ?  
a) Preet Bharara  
b) Madhulika Sikka  
c) Dev Sharma  
d) Salman Rushdie  
e) None of these
159. Who is the President of Chile?  
a) Angela Merkel  
b) David Harper  
c) Michelle Bachelet  
d) Rodrigo Valdes  
e) None of these

## SBI PO Mains Practice Paper -2

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160. Which country declared 30 days State emergency on 04<sup>th</sup> July 2015?
- Chile
  - Peru
  - Tunisia
  - Uruguay
  - None of these
161. Indian Army dedicated the monument namely 'PrernaSthal' at which place?
- Ferozepur, Punjab
  - Kaithal, Haryana
  - Hamirpur, Himachal Pradesh
  - Mathura, Uttar Pradesh
  - None of these
162. Name the airways get licencefro Directorate General of Civil Aviation?
- Turbo Megha Airways
  - Ferrari Airways
  - Fleece Airways
  - Trijet Airways
  - None of these
163. Where is SatishDhawan Space Centre located?
- Puri, Odisha
  - Palakkad, Kerala
  - Raipur, Chhattisgarh
  - Sriharikota, Andhra Pradesh
  - None of these
164. SME means
- Selling and Marketing Establishment
  - Selling and Managing Employee
  - Sales and Marketing Employee
  - Small and Medium Enterprises
  - None of these
165. Social Marketing is
- Share market prices
  - Marketing by the entire society
  - Internet Marketing
  - Marketing for the social cause
  - None of these
166. Personal loans can be canvassed among
- Salaried person
  - Pensioners
  - Foreign nationals
  - NRI Customers
  - None of these
167. Value added services means
- Costlier products
  - Large number of products
  - Additional Services
  - At par services

## SBI PO Mains Practice Paper -2

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- e) None of these
168. The performance of a sales person depends on
- Salary paid
  - Sales incentive paid
  - Sizes of the sales team
  - Ability and willingness of the sales person
  - None of these
169. Which of the following is not involved in the Growth Strategies of a company?
- Horizontal integration
  - Vertical integration
  - Diversification
  - Intensification
  - None of these
170. Online marketing is the function of which of the following
- Purchase section
  - Production department
  - IT department
  - A collective function of all staff
  - None of these
171. Bancassurance can be sold to
- All banks
  - All insurance companies
  - Insurance agents
  - All existing and prospective bank customers
  - None of these
172. Cross selling is not effective for which of the following products
- Debit Cards
  - Savings Accounts
  - Internet Banking
  - Pension Loans
  - None of these
173. Data mining means analyzing the data stored with
- The DSA
  - The front office staff
  - The back office staff
  - The customers
  - None of these
174. Which of the following is the first step in the 'transaction processing cycle', which captures business data through various modes such as optical scanning or at an electronic commerce website?
- Document and report generation
  - Database maintenance
  - Transaction processing
  - Data entry
  - None of these
175. Home loans can be best canvassed among
- Builders

## SBI PO Mains Practice Paper -2

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- b) Flat owners  
c) Land developers  
d) Individual wanting to buy a flat or house  
e) None of these
176. Customer Relationship Management (CRM) is  
a) A pre-sales activity  
b) A tool for lead generation  
c) An ongoing daily activity  
d) All of the above  
e) None of these
177. Customization is useful for  
a) Designing customer specific product  
b) Call centres  
c) Publicity  
d) Motivating the staff  
e) None of these
178. Market driven strategy includes  
a) Identifying problems  
b) Planning marketing tactics of peers  
c) Positioning the organization and its brands in the market place  
d) Internal marketing  
e) None of these
179. Innovation in marketing is same as  
a) Motivation  
b) Perspiration  
c) Aspiration  
d) Creativity  
e) None of these
180. Generation of sales lead can be improved by  
a) Being very talkative  
b) Increasing personnel and professional contact  
c) Being passive  
d) Engaging recovery agent  
e) None of these
181. A market plan is  
a) Performance appraisal of the marketing staff  
b) Company prospectus  
c) Documented marketing strategy  
d) Business targets  
e) None of these
182. The key challenge to market driven strategy is  
a) Selling maximum products  
b) Employing maximum DSAs  
c) Delivering superior value to customers  
d) Being rigid to changes  
e) None of these
183. A successful "Blue Ocean" requires

- a) Effective communication  
b) Innovative skills  
c) Motivation  
d) All of the above  
e) None of these
184. Compilers and interpreters are themselves  
a) High level language  
b) Codes  
c) Programs  
d) Mnemonics  
e) None of these
185. A storage system for small amounts of data is  
a) Magnetic card  
b) Magnetic tape  
c) Punched card  
d) Optical mark reader  
e) None of these
186. A modern digital computer has  
a) Extremely high speed  
b) Large memory  
c) Almost unlimited array  
d) All of the above  
e) None of these
187. The personnel who deals with the computer and its management put together are called  
a) Software  
b) Humanware  
c) Firmware  
d) Hardware  
e) None of these
188. The device that can both feed data into and accept data from a computer is  
a) ALU  
b) CPU  
c) Input-Output device  
d) All of the above  
e) None of these
189. Which of the following is intended to be used in all applications runs on mainframe computers  
a) LOGO  
b) APL  
c) PL/1  
d) OCCAM  
e) None of these
190. The complete picture of data stored in database is known as  
a) Record  
b) Schema  
c) System flowchart  
d) DBMS

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- e) None of these
191. The first generation of computers available was based on the bit micro processors
- a) 4
  - b) 8
  - c) 16
  - d) 64
  - e) None of these
192. Any device that performs signal conversion is
- a) Modulator
  - b) Modem
  - c) Keyboard
  - d) Plotter
  - e) None of these
193. Data division is 3rd division of a \_\_\_\_\_ program
- a) COBOL
  - b) BASIC
  - c) PASCAL
  - d) FORTH
  - e) None of these
194. Most important advantage of an IC is its
- a) Easy replacement in case of circuit failure
  - b) Extremely high reliability
  - c) Reduced cost
  - d) Low power consumption
  - e) None of these
195. Most important advantage of an IC is its
- a) Easy replacement in case of circuit failure
  - b) Extremely high reliability
  - c) Reduced cost
  - d) Low power consumption
  - e) None of these
196. The list of coded instructions is called
- a) Computer program
  - b) Algorithm
  - c) Flowchart
  - d) Utility programs
  - e) None of these
197. Which output device is used for translating information from a computer into pictorial form on paper
- a) Mouse
  - b) Plotter
  - c) Touch panel
  - d) Card punch
  - e) None of these
198. Any storage device added to a computer beyond the immediately usable main storage is known as
- a) Floppy disk

## SBI PO Mains Practice Paper -2

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- b) Hard disk
- c) Backing store
- d) Punched card
- e) None of these

199. Which device of computer operation dispenses with the use of the keyboard

- a) Joystick
- b) Light pen
- c) Mouse
- d) Touch
- e) None of these

200. ASCII stands for

- a) American Standards Code for Information Interchange
- b) All purpose Scientific Code for Information Interchange
- c) American Security Code for Information Interchange
- d) American Scientific Code for Information Interchange
- e) None of these

### Answers:

1. Option C  
First is the place where second stops temporarily.
2. Option D  
Second is the lowest part of the first.
3. Option A  
First is a part of the second.
4. Option D  
Second is a part of first.
5. Option B  
First contains the second.
6. Option C  
All are music instruments except flute. All have string to play the music but flute does not have.
7. Option A  
All except sweetness are related with beauty but sweetness is related with taste.
8. Option C  
All others are units to measure distance.
9. Option C  
Except 'Throat' all words having four letters.
10. Option A  
All others are national holidays.
11. Option B  
M A D R A S



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D    A    M    S    A    R

M    U    M    B    A    I  
M    U    M    I    A    B

MUMBAI = MUMIAB

12. Option D

I	N	S	T	I	T	U	T	I	O	N
9	14	19	20	9	20	21	20	9	15	14

N	O	I	T	U	T	I	T	S	N	I
14	15	9	20	21	20	9	20	19	14	9

P	E	R	F	E	C	T	I	O	N
16	5	18	6	5	3	20	9	15	14

N	O	I	T	C	E	F	R	E	P
14	15	9	20	3	5	6	18	5	16

13. Option D

Deepti>Sweta>Seema>Sohan>Seeta  
Deepti is the eldest

14. Option B

Required position =  $(40 + 1 - 14) = 27^{\text{th}}$

15. Option D

Days by Ayush 13, 14, 15 in January  
Days by Mehar 14, 15, 16 in January  
Clearly, 14<sup>th</sup> and 15<sup>th</sup> January are common in both the groups.

16. Option B

$? = 12 + 6 \div 3 - 2 \times 8$   
 $= 12 \div 6 - 3 \times 2 + 8$  (using BODMAS rule)  
 $= 2 - 3 \times 2 + 8 = 2 - 6 + 8$   
 $= (2 + 8) - 6 = 4$

17. Option E

L > M                                    .... (i)

M > N                                    .... (ii)

N > P                                    .... (iii)

On combining all the three statements, we get

L > M > N > P

Conclusions:    I. L > P (True)

II. M > P (True)

18. Option E

A > B                                    .... (i)

B = H                                    .... (ii)

H > G                                    .... (iii)

On combining the statements (i), (ii) and (iii), we get

A > B = H > G

Conclusions:    I. A > G (True)

II. A > H (True)

19. Option D

- $H < J$  .... (i)  
 $F < H$  .... (ii)  
 $I = J = K$  .... (iii)

On combining the statements (i), (ii) and (iii), we get

$$F < H < J = K = I$$

Conclusions: I.  $H > I$  (False)

II.  $I = F$  (False)

20. Option E

$$A < B < C \quad D = E$$

Conclusions: I.  $B = E$  (False)

II.  $B < E$  (True)

21. Option B

$$P > M > Q \quad \dots (i)$$

$$Q > Z > N \quad \dots (ii)$$

On combining the statements (i) and (ii) we get

$$P > M > Q > Z > N$$

Conclusions: I.  $M = Z$  (False)

II.  $N < P$  (True)

22. Option D

$$M \% T \quad M < T \quad \dots (i)$$

$$T \$ K \quad T > K \quad \dots (ii)$$

$$K \odot D \quad K = D \quad \dots (iii)$$

On combining the statements (i), (ii) and (iii), we get

$$M < T > K = D$$

Conclusions: I.  $T \$ D \quad T > D$  (False)

II.  $D \$ M \quad D > M$  (False)

23. Option A

$$F @ B \quad F = B \quad \dots (i)$$

$$B \% N \quad B < N \quad \dots (ii)$$

$$N \$ H \quad N > H \quad \dots (iii)$$

On combining the statements (i), (ii) and (iii), we get

$$F = B < N > H$$

Conclusions: I.  $N \$ F \quad N > F$  (True)

II.  $H \$ F \quad H > F$  (False)

24. Option C

$$R * M \quad R = M \quad \dots (i)$$

$$M @ K \quad M = K \quad \dots (ii)$$

$$K \odot J \quad K = J \quad \dots (iii)$$

On combining the statements (i), (ii) and (iii), we get

$$R = M = K = J$$

Conclusions: I.  $J \$ M \quad J > M$  (May be true)

II.  $J @ M \quad J = M$  (May be true)

25. Option E

$$B \$ N \quad B > N \quad \dots (i)$$

$$N * R \quad N = R \quad \dots (ii)$$

$$R @ K \quad R = K \quad \dots (iii)$$

On combining the statements (i), (ii) and (iii), we get

$$B > N = R = K$$

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Conclusions: I.  $K \odot N$      $K < N$  (True)  
II.  $B \$ K$      $B > K$  (True)

26. Option B

$J \odot K$      $J < K$     .... (i)

$K \$ N$      $K > N$     .... (ii)

$N * D$      $N < D$     .... (iii)

On combining the statements (i), (ii) and (iii), we get

$J < K > N < D$

Conclusions: I.  $J \% N$      $J < N$  (False)

II.  $D \% K$      $D < K$  (True)

27. Option B

$R @ D$      $R = D$     .... (i)

$D \odot M$      $D < M$     .... (ii)

$M \$ T$      $M > T$     .... (iii)

On combining the statements (i), (ii) and (iii), we get

$R = D < M > T$

Conclusions: I.  $T \% D$      $T < R$  (False)

II.  $M * R$      $M < R$  (True)

28. Option C

29. Option D

30. Option D

Angle traced by hour hand in 35 min. after 8 =  $35 \times \frac{1}{2} = 17.5^\circ$

At 8 : 35, min. hand is at 7, and angle between 8 and 7 =  $30^\circ$

Required angle between two hand at 8 : 35 =  $30^\circ + 17.5^\circ = 47.5^\circ$

31. Option C

Year 2001 was an ordinary year and in an ordinary year

1<sup>st</sup> day = last day

1<sup>st</sup> January = 31<sup>st</sup> December

As, given that, 1<sup>st</sup> January = Monday

Hence, 31<sup>st</sup> December = Monday

32. Option A

The pointer which was showing West started showing South. Hence, the pointer turned  $90^\circ$  clockwise. Now, Sita went to the direction thinking it as West. The original direction will be  $+90^\circ$  clockwise i.e. North direction.

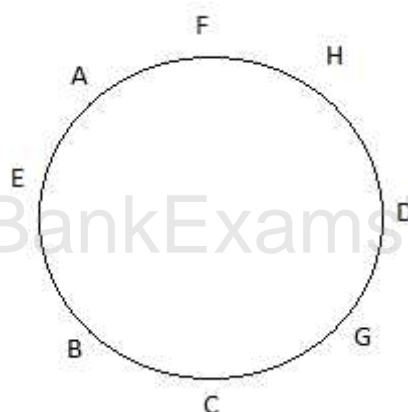
33. Option D

Left    Right

C    A    B    D    E

Clearly, C and E are at the extremes.

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34. Option C  
Clearly, H is sitting exactly between F and D
35. Option D  
36. Option D  
37. Option C  
38. Option D

Candidates	(A)	B (ii)	(C)	D (i)
Sweta	True	True	True	True
Miss Anu	True	?	True	True
Pinki	True	False	—	—
Kiran	True	True	True	True
Reena	True	True	?	True

39. Option D  
40. Option C  
41. Option E  
42. Option B  
43. Option C  
44. Option D  
All the courses of action are worth pursuing for the problem as defined in the statement, because flood affected persons need all sort of relief i.e., food, medical facilities etc.
45. Option C  
Courses of action II and III are worth pursuing the problem as defined in the statement. Reasons for failure should be studied and performance of the affected state should be compared with that of other states.
46. Option C  
Only course of action III provides a feasible and effective course to combat the problem, that impediments in the way of speedy and proper rehabilitation should be removed. Courses of action I and II are not effective courses.
47. Option D  
Courses of action II and III are feasible and effective to combat the problem.
48. Option A  
The best way to prevent faculty members to go on strike is to persuade them. Hence, course of action I shows the right course of action.

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49. Option C  
Condition of the architectural structure can be improved by way of adequate finance. Hence, course of action III, that grant should be given to improve the condition of the structure, is the right course of action.
50. Option D  
In the statement, celebration of Teacher's Day in today's materialistic World is in question which means that the role and responsibilities of teachers should be seen in today's perspective. Hence, course of action III is the right course of action.
51. Option D
52. Option C
53. Option E
54. Option D
55. Option B
56. Option E
57. Option C
58. Option A
59. Option B
60. Option C  
The word catering means 'to provide the things that a particular type of person wants'. Hence the words catering and supplying are synonymous.
61. Option E  
Key means 'most important: essential: critical: vital', so, the words key and important are synonymous important.
62. Option B  
Aggressive means 'acting with force and determination in order to succeed'. Hence, the words aggressive and determined are synonymous.
63. Option E  
Prosperous means 'rich and successful: affluent'. Of the given alternatives, the word underprivileged means 'having less money and fewer opportunities than others, disadvantaged. So, underprivileged is most opposite in meaning to it.
64. Option A  
Destroying is most opposite in meaning to the word consuming as used in the passage.
65. Option A  
Surge means 'a sudden increase in value'. So, the words surge and decrease are antonymous.
66. Option B
67. Option A
68. Option C
69. Option C
70. Option E
71. Option A
72. Option B
73. Option E
74. Option C
75. Option D
76. Option A
77. Option B
78. Option D
79. Option E
80. Option C
81. Option C

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82. Option A  
83. Option D  
84. Option E  
85. Option A  
86. Option B  
87. Option D  
88. Option C  
89. Option E  
90. Option B  
91. Option D  
92. Option B  
93. Option E  
94. Option A  
95. Option D  
96. Option D  
97. Option B  
98. Option B  
99. Option E

100. Option A

101. Option B

$$\begin{aligned} \text{Average number of girls studying in all the standards together} &= \frac{15+10+25+22.5+25+17.5}{6} \times 100 \\ &= \frac{11500}{6} = 1916.66 = 1917 \end{aligned}$$

102. Option A

$$\text{Total number of boys studying in all the standards together} = (12.5 + 15 + 22.5 + 20 + 22.5 + 15) \times 100 = 10750$$

$$\text{Number of boys studying in class VI} = 15 \times 100 = 1500$$

$$\text{Required percentage} = \frac{1500}{10750} \times 100 = 13.95$$

103. Option C

$$\text{Total number of students studying in all the standards together} = 11500 + 10750 = 22250$$

$$\text{Number of girls studying in class V} = 25 \times 100 = 2500$$

$$\text{Required percentage} = \frac{2500}{22250} \times 100 = 11.24 = 11$$

104. Option E

$$\text{Number of boys studying in class IV} = 20 \times 100 = 2000$$

$$\text{Number of girls studying in class I} = 15 \times 100 = 1500$$

$$\text{Required ratio} = 2000 : 1500 = 4 : 3$$

105. Option D

$$\text{Total number of students studying in class III} = (22.5 + 25) \times 100 = 4750$$

$$\text{Total number of students studying in class IV} = (20 + 22.5) \times 100 = 4250$$

$$\text{Required percentage} = 4750 : 4250 = 19 : 17$$

106. Option B

$$\text{Required percentage} = \frac{\text{Total number of items sold by Company C in the year 2003}}{\text{Total number of items produced by Company C in the year 2003}}$$

$$= \frac{9.6}{15} \times 100 = 64$$

107. Option C

$$\begin{aligned} \text{Item sold by Company E in all the years together} &= (13 + 11.1 + 12.2 + 11.4 + 7 + 5 + 4.9) \times \\ &1000 = 64600 \end{aligned}$$

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Items produced by Company E in all the years together =  $15.8 + 14 + 14.2 + 13.6 + 10.6 + 9.8 + 8.9$  × 1000 = 86900

Required percentage =  $\frac{64600}{86900} \times 100 = 74.34$

108. Option E

Total number of items produced by all companies in the year 2007 =  $13.4 + 16 + 17 + 11.2 + 9.8 = 67.4$

Total number of items sold by all companies in the year 2007 =  $10 + 13 + 13.2 + 8.2 + 5 = 49.4$

Required ratio =  $67.4 : 49.4 = 337 : 247$

109. Option B

Percentage of items sold by Company A in the year 2005 =  $\frac{7.5}{9} \times 100 = 83.33$

Percentage of items sold by Company B in the year 2005 =  $\frac{9}{14} \times 100 = 64.29$

Percentage of items sold by Company c in the year 2005 =  $\frac{10.4}{7} \times 100 = 67.31$

Percentage of items sold by Company D in the year 2005 =  $\frac{8}{10.7} \times 100 = 74.77$

Percentage of items sold by Company E in the year =  $\frac{11.4}{13.6} \times 100 = 83.82$

So, Company B has sold the minimum percentage of items in the year 2005

110. Option A

Total number of items sold by Company B for all the years together =  $(6.1 + 9.7 + 10.4 + 9 + 12.1 + 13 + 14) \times 1000 = 74300$

111. Option E

Number of injuries due to cycle accidents =  $48000 \times \frac{10}{100} \times \frac{9}{16}$   
=  $300 \times 9 = 2700$

112. Option D

Deaths due to Car accidents =  $48000 \times \frac{15}{100} \times \frac{3}{8} = 2700$

Total number of accidents due to Cars =  $48000 \times \frac{15}{100} = 7200$

Required percentage =  $\frac{2700}{7200} \times 100 = 37.5$

113. Option A

Number of injuries due to bus accidents =  $48000 \times \frac{21}{100} \times \frac{8}{15} = 5376$

Required percentage =  $\frac{5376}{48000} \times 100 = 11.2 = 11$

114. Option C

Total number of deaths due to Autos and Motorcycles together =  $48000 \times \frac{13}{100} \times \frac{4}{10} + 48000 \times \frac{23}{100} \times \frac{1}{3} = 2496 + 3680 = 6176$

115. Option B

Number of deaths due to Truck accidents =  $48000 \times \frac{18}{100} \times \frac{5}{12} = 3600$

Required ratio =  $3600 : 48000 = 3 : 40$

116. Option D

Required percentage =  $\frac{31}{15} \times 100 = 206.67 = 207$

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117. Option C

$$A = 35000 \times \frac{18}{100} \times \frac{3}{10} = 1890$$

$$B = 35000 \times \frac{22}{100} \times \frac{11}{20} = 4235$$

$$C = 35000 \times \frac{31}{100} \times \frac{3}{5} = 6510$$

$$D = 35000 \times \frac{15}{100} \times \frac{2}{5} = 2100$$

$$E = 35000 \times \frac{14}{100} \times \frac{1}{4} = 1225$$

$$\text{Total number of males in all the organizations} = 1890 + 4235 + 6510 + 2100 + 1225 = 15960$$

118. Option B

$$\begin{aligned} \text{Total number of males in organization A and C} &= 35000 \left( \frac{18}{100} \times \frac{30}{100} + \frac{31}{100} \times \frac{60}{100} \right) \\ &= \frac{35000}{10000} (540 + 1860) \\ &= 3.5 \times 2400 = 8400 \end{aligned}$$

119. Option A

$$\text{Number of females in organization B} = \frac{35000 \times 22 \times 9}{100 \times 20} = 3465$$

$$\text{Number of females in organization E} = \frac{35000 \times 14 \times 3}{100 \times 4} = 3675$$

$$\text{Required difference} = 3675 - 3465 = 210$$

120. Option E

$$\text{Number of females in organization D} = 35000 \times \frac{15}{100} \times \frac{60}{100} = 3150$$

121. Option A

$$\text{Percentage of the Muslim members in Lok Sabha} = \frac{42}{490} \times 100 = 8.57\% = 9\%$$

122. Option B

$$\begin{aligned} \text{Required ratio} &= (120 - 30) : (30 + 30) \\ &= 90 : 60 = 3 : 2 \end{aligned}$$

123. Option E

$$\text{Number of businessman members in Parliament} = 45 + 19 = 64$$

$$\text{Percentage of businessman members in Parliament} = \frac{64}{640} \times 100 = 10\%$$

124. Option C

$$\text{Required ratio} = 280 : (180 + 30) = 280 : 210 = 4 : 3$$

125. Option D

$$\begin{aligned} \text{Required percentage} &= \frac{45}{(180+45)} \times 100 \\ &= \frac{45}{225} \times 100 = 20\% \end{aligned}$$

126. Option B

$$\frac{2.4+3.6+1.8+4.7+5.8 \times 1000}{5} = 3660$$

127. Option C

128. Option E

$$\frac{0.9}{3.9} = 3:13$$



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129. Option E

$$\frac{6.4}{4.2+5.1+7.7+3.6+4.5+3.9} \times 100 = \frac{6.4}{29} \times 100 = 22.06\% = 22\%$$

130. Option B

Air Force =  $1.4+1.7+0.9+2.4+1.3+2.7 = 10.4$   
 Army =  $4.2+5.1+7.7+3.6+4.5+3.9 = 29$   
 Navy =  $0.6+0.9+1.2+1.8+2.9+3.5 = 10.9$   
 Coast Guard =  $1.7+2.8+1.6+4.7+5.1+3.9 = 19.8$   
 BSF =  $2.6+3.1+4.7+5.8+6.4+4.3 = 26.9$

131. Option C

The number of people who died in train accidents in 2013 =  $400 + 500 + 600 + 700 = 2200$   
 The number of people who died in train accidents in 2011 =  $100 + 200 + 600 + 700 = 1600$   
 So, required % =  $\frac{2200 - 1600}{1600} \times 100 = 37.5\%$

132. Option C

Average number of people who died in train accidents in all states in 2008 =  $\frac{1}{4} \times (100 + 200 + 300 + 500)$   
 $= \frac{1100}{4} = 275$

133. Option B

The number of deaths in train accidents in Bihar =  $100 + 300 + 300 + 200 + 500 + 600 + 400 = 2400$   
 Similarly, in UP =  $500 + 600 + 500 + 700 + 600 + 700 + 600 = 4200$   
 In Maharashtra =  $200 + 400 + 100 + 100 + 300 + 400 + 300 = 1800$   
 In Odisha =  $300 + 200 + 700 + 600 + 400 + 500 + 200 = 2900$   
 In UP the number of people who died in train accidents is the maximum.  
**Quicker method** it is clear from the graph that the highest number of people died in UP.

134. Option D

The number of train accidents in 2014 =  $200 \times \frac{18}{100} = 36$   
 The number of train accidents in 2012 =  $200 \times \frac{14}{100} = 28$   
 So, required difference =  $36 - 28 = 8$

135. Option E

The ratio of the number of deaths in 2010 to that in 2014 =  $(100 + 300 + 500 + 700) : (200 + 300 + 400 + 600) = 1600 : 1500 = 16 : 15$

136. Option B

Productivity =  $\frac{\text{Total production}}{\text{Area of agricultural land}}$   
 Productivity of UP =  $\frac{35+30+25 \times 1000}{2 \text{ lakh} \times \frac{30}{100}} = \frac{90000}{60000} = 1.5 \text{ tonnes per sq km}$

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$$\text{Productivity of MP} = \frac{30+32.5+27.5 \times 1000}{2 \text{ lakh} \times \frac{25}{100}} = \frac{90000}{50000} = 1.8 \text{ tonne per sq km}$$

$$\text{Productivity of Bihar} = \frac{22.5+25+27.5 \times 1000}{2 \text{ lakh} \times \frac{20}{100}} = \frac{75000}{40000} = 1.875 \text{ tonnes per sq km}$$

$$\text{Productivity of Odisha} = \frac{22.5+15+10 \times 1000}{2 \text{ lakh} \times \frac{5}{100}} = \frac{47.5 \times 1000}{10000} = 4.75 \text{ tonnes per sq km}$$

$$\text{Productivity of Haryana} = \frac{25+35+30 \times 1000}{2 \text{ lakh} \times \frac{8}{100}} = \frac{90000}{16000} = 5.625 \text{ tonnes per sq km}$$

$$\text{Productivity of Punjab} = \frac{40+30+35 \times 1000}{2 \text{ lakh} \times \frac{12}{100}} = \frac{105000}{24000} = 4.375 \text{ tonnes per km}^2$$

So, productivity of Haryana is the maximum

137. Option E

Production of Punjab is maximum = 105000 tonnes

138. Option C

Production of Wheat in Punjab = 40000 tonnes

Production of Maize in Odisha = 10000 tonnes

$$\text{So, required \%} = \frac{40000}{10000} \times 100\% = 300\%$$

139. Option D

The ratio of production of Rice in Bihar to the production of Wheat in Haryana = 25000 tonnes : 25000 tonnes = 1 : 1

140. Option A

Income of MP from export of 40% of Rice at the rate of Rs.30 per kg =  $32500 \times \frac{40}{100} \times 1000 \times 30 = \text{Rs.39 Crore}$

Income of UP from export of 30% of Rice at the rate of Rs.32 per kg =  $30000 \times 1000 \times \frac{30}{100} \times 32 = \text{Rs.28.8 Crore}$

So, required ratio = 39 : 28.8 = 390 : 288 = 65 : 48

141. Option C

Expenditure of Company B = 60 lakh

Income of Company B =  $60 \text{ lakh} \times \frac{180}{100} = 108 \text{ lakh} = 1 \text{ Crore } 8 \text{ lakh}$

Income of Company A =  $10800000 \times \frac{4}{5} = \text{Rs.8640000}$

So, required difference =  $10800000 - 8640000 = \text{Rs.2160000}$

142. Option A

Total expenditure on the employees of Company A =  $5000000 \times \frac{28}{100} = \text{Rs.1400000}$

Average salary of the employees =  $\frac{1400000}{100} = \text{Rs.14000}$

143. Option A

Tax paid by Company A : Tax paid by Company B

$$= 5000000 \times \frac{14}{100} : 6000000 \times \frac{6}{100} = 700000 : 360000 = 35 : 18$$

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144. Option B

$$\text{Difference} = 6000000 \times \frac{34}{100} - 5000000 \times \frac{28}{100} = 2040000 - 1400000 = \text{Rs.}640000$$

145. Option E

$$\text{Expenditure on Machine and Electricity of Company B} = 6000000 \times \frac{18}{100} = \text{Rs.}1080000 = 10.8 \text{ lakh}$$

$$\text{Expenditure on Machine and Electricity of Company A} = 5000000 \times \frac{12}{100} = \text{Rs.}600000 = 6 \text{ lakh}$$

$$\text{So, required \%} = \frac{1080000 - 600000}{600000} \times 100\%$$

$$= \frac{48}{60} \times 100\% = 80\%$$

Hence, expenditure of Company B is 80% more than Company A.

146. Option C

$$\text{Total number of volcanic eruptions in the year 2009} = 20 + 60 + 20 + 60 + 60 + 120 = 340$$

$$\text{Total number of volcanic eruptions in the year 2011} = 100 + 120 + 120 + 20 + 40 + 60 = 460$$

$$\text{So, required ratio} = 340 : 460 = 17 : 23$$

147. Option D

$$\text{Total number of volcanic eruptions in Japan during the given four years} = 60 + 100 + 120 + 140 = 420$$

$$\text{Total number of volcanoes in Japan} = 1000 \times \frac{34}{100} = 340$$

$$\text{So, required \%} = \frac{420 \times 100}{340} = 123.52\%$$

148. Option B

Difference between the number of volcanoes in Indonesia and the number of volcanoes in

$$\text{Morocco} = 1000 \times \frac{20}{100} - 1000 \times \frac{10}{100} = 200 - 100 = 100$$

149. Option D

$$\text{Total number of volcanic eruptions in Chile} = 40 + 60 + 80 + 120 = 300$$

$$\text{Total number of volcanic eruptions in USA} = 20 + 60 + 80 + 100 = 260$$

$$\text{So, required \%} = \frac{300 \times 100}{260} = 115.38\%$$

Hence, volcanic eruptions in Chile is 115.38% of the total number of volcanic eruptions in USA.

150. Option C

$$\text{Total volcanoes in Newzealand} = 1000 \times \frac{12}{100} = 120$$

$$\text{Total number of volcanic eruptions in Newzealand} = 40 + 60 + 80 + 120 = 300$$

$$\text{So, required ratio} = 120 : 300 = 2 : 5$$

151. Option A

152. Option A

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153. Option D  
154. Option C  
155. Option D  
156. Option A  
157. Option B  
158. Option B  
159. Option C  
160. Option C  
161. Option A  
162. Option A  
163. Option D  
164. Option D  
165. Option D  
166. Option A  
167. Option C  
168. Option D  
169. Option D  
170. Option D  
171. Option D  
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192. Option A  
193. Option A  
194. Option B  
195. Option B  
196. Option A  
197. Option B  
198. Option C  
199. Option C  
200. Option A

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