Directions : (1-5) : Study the following information carefully and answer the questions which follow--

Five boys A, B, C, D and E are working in five different banks-Bank of India (BOI), Punjab national Bank (PNB), Indian overseas Bank (IOB), Bank of Maharashtra (BOM) and Canara Bank. Five girls P, Q, R, S and T are working in five different banks-Bank of Baroda (BOB), Oriental Bank of Commerce (OBC), Union Bank of India (UBI), Central Bank of India (CBI) and Industrial Development Bank of India (IDBI). These five boys are married to these five girls but not necessary in that order.

S is either working in BOM or IDBI but does not married to one who works in PNB. A does not work in PNB or BOI but married to one who works in IDBI. The one who works in UBI is married to E.

The boy who works in BOI is either married to S or T. E is not married to P, who works either in UBI or CBI D does not work in IOB or Canara Bank but married to one who works in OBC.

C is married to R but does not work with Canara Bank or PNB. R does not married to one who works in PNB. Q is married to one who works in IOB.

1. Who is married to S?
   (a) A (b) B (c) C
   (d) D (e) E

2. Who is employee of Bank of Maharashtra?
   (a) A (b) B (c) C
   (d) D (e) E

3. In which of the following bank the wife of E is working?
   (a) UBI (b) IDBI (c) BOB
   (d) OBC (e) CBI

4. Who works with Oriental Bank of Commerce?
   (a) Wife of C (b) P (c) Q
   (d) T (e) Wife of one who works in PNB

5. Who is married to one who works with Canara Bank?
   (a) The one who works with CBI (b) The one who works with BOB
   (c) The one who works with UBI (d) The one who works with IDBI
   (e) Cannot be determined

Directions : (6-10) : Study the following information carefully and answer the questions which follow--

Six captains A, B, C, D, E and F of 6 different teams U, V, W, X, Y and Z are sitting around a circular table facing to the center. The difference between each of one is same. They all are have of different ages 31, 32, 33, 34, 35, and 36.

i. C is seated second to the right of the captain of team X. The one whose age is not 36 is C.

ii. The captain whose age is 33 is seated second to the left of the captain of team Z, who is not A or C.

iii. B is seated opposite to the captain of team Y, whose age is 32.

iv. There is only one captain between the captain of team Z and Y but he is not U. Y sits to the right of Z.

v. The captain whose age is 34 is seated second to the right of A.

vi. The captain whose age is 35 is not seated near to one whose age is 32.

vii. F is seated immediate left of the captain of team W but not near to A.

viii. The captain of team U is not seated near to the captain of team V but immediate right of D.

6. Who is sitting opposite to the captain of team V?
   (a) C (b) B (c) D
   (d) Captain of team U (e) Whose age is 35

7. What is the position of the captain whose age is 31 with respect to one whose age is 33?
   (a) Second to the right (b) Immediate right
   (c) Second to the left (d) Immediate left
   (e) Opposite

8. Which of the following statement is true?
   (a) E is the captain of team Z
   (b) B is 35 years old and near to D
   (c) Captain of team W is opposite to that of team X
   (d) C is second to the right of B but not near to F
   (e) More than one of the above

9. Which of the following combination is correct?
   (a) D-36-Z (b) B-31-X (c) A-33-U
   (d) F-35-Y (e) E-34-V

10. Who is sitting immediate to the right of E?
    (a) Captain of team U (b) Captain of team V
    (c) Captain of team W (d) Captain of team X
    (e) Captain of team Y

Directions : (11-15) : Each question consists of three/four statements followed by four or five conclusions. Consider the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions does not logically follow form the given statements using all statements together.

11. Statements : No pepper is basil
    All sandals are banyans
    All peppers are banyans

Conclusions : (i) Some banyans are not basil
(ii) No basil is sandal.
(iii) All banyans are sandals is a possibility
(iv) Some basils are sandals is a possibility
(v) No sandal is pepper
(a) (i) & (ii) does not follow
(b) (ii) & (iii) does not follow
(c) (ii) & (v) does not follow.
(d) (i) & (iv) does not follow
(e) none of these

12. Statements : All horses are monkeys
    Some donkeys are elephants
    No monkey is donkey

Conclusions : (i) All donkeys are horses is a possibility
(ii) All horses are elephants, is a possibility
(iii) All monkeys are elephants, is a possibility
(iv) Some monkeys are not elephants.
(v) Some elephants are definitely not monkey
(a) (i) & (iii) does not follow
(b) (ii) & (iv) does not follow
13. **Statements**:
Some triangles are squares

**Conclusions**:
(i) No rectangle is triangle
(ii) All triangles may be rectangles
(iii) Some squares are not circles
(iv) At least some rectangles are circles
(v) Some square which are rectangles may be circle
(a) (i) & (ii) does not follow
(b) (i) & (iii) does not follow
(c) (ii) & (v) does not follow
(d) (iii) & (iv) does not follow
(e) none of these

14. **Statements**:
All movies are scripts

**Conclusions**:
(i) All dramas are scripts is a possibility
(ii) Some dramas are not scripts
(iii) All movies are stories is a possibility
(iv) Some scripts are not dramas
(v) Some stories are movies is definitely true
(a) (i) & (ii) does not follow
(b) (i) & (iii) does not follow
(c) (ii) & (iv) does not follow
(d) (iii) & (iv) does not follow
(e) none of these

15. **Statements**:
All lotuses are roses
Some flowers are lotuses
All flowers are sunflowers
No lotus is jasmine

**Conclusions**:
(i) All sunflowers are lotuses is a possibility
(ii) All roses are flowers is definitely true
(iii) At least some sunflowers are roses
(iv) All jasmines being a part of lotus is a possibility
(v) Some sunflowers are definitely not jasmines
(a) (i) & (ii) does not follow
(b) (i) & (iii) does not follow
(c) (ii) & (iv) does not follow
(d) (iii) & (iv) does not follow
(e) none of these

**Directions (16-20)**: Read the following information carefully and answer the given questions:
A word and number arrangement machine when given an input line of words and number rearranges them following a particular rule. The following is an illustration of input and rearrangement:

**Input**: ‘44 rate 34 60 over 47 tin 32 fix 63 profit use expenses 37’.

**Step-I**: ‘use 44 rate 34 60 over 47 tin 32 fix profit expenses 37 63’.

**Step-II**: ‘tin use 44 34 over 47 32 fix profit expenses 37 63 60’.

**Step-III**: ‘rate tin use 44 34 over 47 32 fix profit expenses 37 63 60 47’.

**Step-IV**: ‘profit rate tin use 44 34 over 32 fix expenses 37 63 60 47 44’.

**Step-V**: ‘over profit rate tin use 44 34 32 fix expenses 63 60 47 44 43 37’.

**Step-VI**: ‘fix over profit rate tin use 32 expenses 63 60 47 44 37 34’.

**Step-VII**: ‘expenses fix over profit rate tin use 63 60 47 44 37 34 32’.

Step-VII is the last step of the rearrangement of the above input as the intended rearrangement is obtained. As per the rules followed in the above steps, indicate the answer in each of the following questions with respect to the appropriate step for the given input. For the questions is,

**Input**: 40 of must attend 30 60 80 regular school 70 students 20 class 50’ (All the numbers are two digits numbers)

16. Which step number will be the following output? ‘of regular school students 40 must attend 30 20 class 80 70 60 50’
(a) Step-V
(b) Step-III
(c) Step-IV
(d) Step-VI
(e) There is no such step

17. In Step-V, if ‘Regular’ is related to ‘60’ and ‘students’ is related to ‘80’ in a certain way, which of the following would ‘attend’ be related to in the same pattern?
(a) 20
(b) 30
(c) 40
(d) class
(e) 50

18. How many terms are there between term ‘school’ and ‘60’ in Step-V?
(a) Four
(b) Six
(c) Seven
(d) Eight
(e) None of these

19. Which word/number would be at 4th to the left of ‘20’ in Step-IV?
(a) 40
(b) 50
(c) must
(d) Students
(e) School

20. Which of the following statements is definitely true?
(a) In Step-III, there are four elements between ‘40’ and ‘50’.
(b) In Step-IV, there are five elements between ‘30’ and ‘40’.
(c) In Step-V, there are three elements between ‘20’ and ‘80’.
(d) In Step-IV, there are three elements between ‘20’ and ‘40’.
(e) None of these

**Directions (21-25)**: Study the following information carefully and answer the questions which follow:
There are 10 persons in a award function A, B, C, D, E, O, P, Q, R and S. They are standing in a row facing north. These persons play 7 different instruments i.e., piano, Drum, Flute, Trumpet, Guitar, Struck and String. One person plays only one instrument but there are two players each of Drum, String and Struck.

i. Out of the two persons who are standing in the middle of the row, one of them is P and another one is a player of Struck, which is not played by Q or O.

ii. O is to the immediate left of D, who is near the player of Struck.

iii. R plays Guitar and seated third to the left of P. Two players of a same game are not standing together.

iv. The player of piano is fifth to the right of the player of String, who is second to the left of Q.

v. Trumpet player and piano player neither stand together nor at the end of the row but one of them is C, who is second to the left of S.

vi. There are only two persons between the player of String and R. There are four persons between E and the player of Guitar.

vii. A is the player of Flute but not near to B.
viii. The person who plays Drum is seated between String players.

21. Who are standing at the end of the row?
   (a) B and Q  (b) O and A  (c) C and R
   (d) A and B  (e) D and S

22. Which of the following statement/s is/are true about the given arrangement?
   (I) There are only two persons between the player of Trumpet and Drum.
   (II) D is a player of String and third from the left end.
   (III) S is neither player of Flute nor of String and not stand on extreme end.
   (IV) Player of Piano is only near the player of Drum.
   (V) D is on third place from B and E plays Drum.
   (a) Only I, II and V  (b) Only I, III and IV
   (c) Only III and V  (d) Only I, II, III
   (e) None of these

23. Which of the following statement is true with respect to the given information?
   (a) B plays Struck while O plays Flute
   (b) The piano player is on sixth place from the String player
   (c) The String player and Trumpet player are standing on the extreme end of the row
   (d) The Flute player is on third place from the piano player
   (e) None of the above

24. Which of the following pair is correct?
   (a) O – String  (b) D – Flute  (c) B – Flute
   (d) A – Struck  (e) S – Trumpet

25. What is the position of the piano player with respect to Drum player?
   (a) Immediate right  (b) Second to the right
   (c) Fourth to the left  (d) Sixth to the left
   (e) Third to the right

Directions (26-30):

26. Statement: There are more than 200 villages in the hill area of Uttar Pradesh which are severely damaged due to cyclone and it causes an extra burden of Rs 200 crore on State Government for relief and rehabilitation work.

   Course of Action:
   I. People of hill area should be shifted to other safer places.
   II. State Government should ask more financial support from Central Government.
   III. Government should levy relief tax to the corporate sector to ease the additional burden.
   (a) None follows  (b) Only I and II follow
   (c) Only II and III follow  (d) Only I and III follow
   (e) All follow

27. Statement: Any further increase in the pollution level in the city by way of industrial effluents and automobile exhaustions would pose a severe threat to the inhabitants.

   Course of Action:
   I. All the factories in the city should immediately be closed down.
   II. The automobiles should not be allowed to ply on the road for more than four hours a day.
   III. The Government should restrict the issue of fresh licenses to factories and automobiles.
   (a) None follows  (b) Only II follows
   (c) Only III follows  (d) All follows
   (e) None of these

28. Statement: A huge truck overturned on the middle of the main road and blocked most part of the road, causing a huge traffic jam.

   Courses of action:
   I. The traffic department should immediately deploy its personnel to divert traffic through other roads.
   II. The traffic department should immediately send men and equipment to move the truck and clear the road.
   III. The persons near by should immediately complain against it in the nearest police station.
   (a) Only I follows  (b) Only II follows
   (c) Either I or II  (d) Only I and III follow
   (e) Only II and III follow

29. Statement: Incessant rain for the past several days has posed the problem of overflowing and flood as the river bed is full of silt and mud.

   Course of Action:
   I. The people residing near the river should be shifted to a safe place.
   II. The people should be made aware about the imminent danger over radio/television.
   III. The silt and mud from the river bed should be cleared immediately after the receding of the water level.
   (a) None follows  (b) Only I and II follow
   (c) Only II and III follow  (d) Only I and III follow
   (e) All follow

30. Statement: Some strains of mosquito have become resistant to chloroquine - the widely used medicine for malaria patients.

   Course of Action:
   I. Selling of chloroquine should be stopped.
   II. Researchers should develop a new medicine for patients affected by such mosquitoes.
   III. All the patients suffering from malaria should be checked for identification of causal mosquito.
   (a) None follows  (b) Only I and III follow
   (c) All follow  (d) Only II and III follow
   (e) None of these

Directions (31-35): Below in each question are given two statements (i) and (ii). These statements may be either independent causes or may be effects of independent causes. One of these statements may be the effect of the other statements. Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements.

a) if statement (A) is the cause and statement (B) is its effect.
b) if statement (B) is the cause and statement (A) is the effect.
c) if both the statements (A) and (B) are independent causes.
d) if both the statements (A) and (B) are effects of independent causes.
e) if both the statements (A) and (B) are effects of some common cause.

31. I. Govt. has decided to distribute part of the foodgrain stock through Public Distribution System to people below poverty line.
   II. There has been bumper kharif crop for the last two seasons.
32. I. Most of the students enrolled themselves for the educational tour scheduled for next month.
   II. The school authority cancelled the educational tour scheduled for next month.

33. I. The prices of fruits have dropped substantially during the last few days.
   II. The prices of foodgrains have increased substantially during the last few days.

34. I. The road traffic between the two towns in the state has been disrupted since last week.
   II. The rail traffic between the two towns in the state has been disrupted since last week.

35. I. Heavy showers are expected in the city area during the next forty-eight hours.
   II. The inter-club cricket tournament scheduled for the week was called off.

36. FPI stands for?
   (a) Faults Per Inch   (b) Frames Per Inch
   (c) Figure Per Inch   (d) Film Per Inch
   (e) Flash Per Inch

37. The ___________ data base can be a choice for the SFMS use:
   (a) Oracle   (b) My SQL
   (c) Both (a) and (b)   (d) DBase
   (e) None of these

38. In dial-up remote access a client uses the ___________ to create a physical connection to a remote access server of the private network
   (a) public local area network
   (b) public telephone network
   (c) bank' branch network
   (d) private telephone network
   (e) private network

39. With the rapid growth of technologies and internet, it is clear that no activity on internet can remain free from the influence of:
   (a) Police   (b) Civil court   (c) Criminal law
   (d) User   (e) Cyber Law

40. ________ provides a common address space and routes the packets of data across the entire Internet:
   (a) IP   (b) TCP   (c) UDP
   (d) ALU   (e) None of these

41. A centralized or distributed integrated repository for data storage connecting to one or more communication networks:
   (a) Data centre   (b) Data file   (c) DBMS
   (d) CDROM   (e) None of these

42. How does a bank get access to a good data centre?
   (a) Build their own data centre
   (b) Use services of an outsourced data centre
   (c) Both a and b
   (d) Through inter-connectivity of computers
   (e) None of these

43. When data is written and stored in two hard discs over the same channel and in two hard discs simultaneously over different channels, the system is known as ___________.
   (a) data mirroring   (b) disc mirroring
   (c) data duplex   (d) disc duplex
   (e) None of these

44. A data source is made up of ___________.
   (a) the text that changes with each version of a merged document
   (b) the graphics that change with each version of a merged document
   (c) both text and graphics that change with each version of a merged document
   (d) the graphics can change only in documentary file
   (e) None of these

45. Which one of the software needs a compiler for its execution?
   (a) DBASE IV   (b) ORACLE   (c) LOTUS
   (d) FORTAN   (e) All of these
Solutions:
**Directions (1 – 5) :**
First write the conditions, which are given in the question.

<table>
<thead>
<tr>
<th>Boys</th>
<th>Bank</th>
<th>Married To</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>× (PNB) × (BOI)</td>
<td>(IDBI)</td>
</tr>
<tr>
<td></td>
<td>BOI</td>
<td>S/T</td>
</tr>
<tr>
<td>D</td>
<td>× (IOB) × (CANDARA BANK)</td>
<td>(OBC)</td>
</tr>
<tr>
<td>C</td>
<td>(× PNB) × (CANDARA BANK)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Girls</th>
<th>Bank</th>
<th>Married To</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>BOB/ IDBI</td>
<td>× (PNB)</td>
</tr>
<tr>
<td>P</td>
<td>UBI</td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>CBI</td>
<td></td>
</tr>
<tr>
<td>Q</td>
<td></td>
<td>IOB</td>
</tr>
</tbody>
</table>

P works in UBI/CBI
⇒ P works in CBI because E × (married) ⇒ P
Who works in UBI married to ⇒ E
⇒ It is given that D – × (IOB)
  
⇒ D – Married to the girl from (OBC)

The girl from OBC = Q/T
But Q ⇒ Married ⇒ person from (IOB)
So

⇒ E is from IOB so from the given table we can see that when E ⇒ IOB

<table>
<thead>
<tr>
<th>Boys</th>
<th>Bank</th>
<th>Married to</th>
<th>Girl</th>
<th>Bank</th>
<th>Married to</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>IOB/BOM</td>
<td>Canara</td>
<td>(IDBI)</td>
<td>S</td>
<td>BOB/IDBI</td>
</tr>
<tr>
<td></td>
<td>BOI/PNB/BOM</td>
<td>T/P</td>
<td></td>
<td>Q</td>
<td>UBI</td>
</tr>
<tr>
<td>D</td>
<td>BOI/PNB</td>
<td>T/P</td>
<td></td>
<td>P</td>
<td>CBI</td>
</tr>
<tr>
<td>C</td>
<td>BOI/IOB/BOM</td>
<td>R</td>
<td></td>
<td>R</td>
<td>BOB/IDBI</td>
</tr>
<tr>
<td>E</td>
<td>IOB</td>
<td>Q (UBI)</td>
<td>T</td>
<td>OBC</td>
<td></td>
</tr>
</tbody>
</table>

⇒ From the table ⇒ B/D ⇒ BOI / PNB
A ⇒ Married to the girl from IDBI
and R ⇒ Married to C so.

⇒ From BOB
⇒ The person from BOI is married ⇒ S/T and S is already married to A so.
BOI ⇒ Married ⇒ T ⇒ means the person from BOI is D. From the equation (i)
1. (a)  
2. (c)  
3. (a)  
4. (d)  
5. (d)  

**Direction (6 – 10):**  
⇒ From the condition (i) given in the question.

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

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

From the (vii) condition  
⇒ F is immediate left of W which can’t be possible because of C.  
⇒ So, this arrangement is not possible.  
⇒ Second, take the (q) arrangement  
From the (iii) condition ⇒ B sits opposite to the caption of team Y.

But it can’t be possible because there is C who sits opposite to the captain of team Y.  
⇒ this arrangement is not possible.  
⇒ at last take the (P) arrangement because (r) and (q) arrangement does not follow. So (P) arrangement follows in this question.  
⇒ From the (iv), (iii) and (ii) conditions, the figure which can be possible is given below

⇒ from (viii) and (vii) conditions ⇒Captain of team U and W sits between captain of team (X) and (Y).  
⇒ {F sits immediate left of captain of team W, captain of team U sits immediate right of D, F doesn’t sit near to A.}  
⇒ If Captain of team W sits near to B then F sits ⇒ immediate left of it.

Then A’s position ⇒ can’t be defined  
So, F sits immediate right to C and D sits immediate right of F
A sits left to the B because from the condition (ii) A is not the captain of team Z
From the (vi) and (i) condition
age of B ⇒ 35 years
age of C = 31 years
age of D ⇒ 36 years

6. (d)
7. (e)
8. (a)
9. (c)
10. (b)

Direction (11 – 15):
11. (c)
12. (c)
13. (b)
14. (e)
15. (b)
Direction (16 – 20) :

Input: 40 of must attend 30 60 80 regular school 70 students 20 class 50
Step I : students 40 of must attend 30 60 regular school 70 20 class 50 80
Step II : school students 40 of must attend 30 60 regular 20 class 50 80 70
Step III : regular school students 40 of must attend 30 20 class 50 80 70 60
Step IV : of Regular school students 40 must attend 30 20 class 80 70 60 50
Step V : must of regular school students attend 30 20 class 80 70 60 50 40
Step VI : class must of regular school students attend 20 80 70 60 50 40 30
Step VII : attend class must of regular school students 80 70 60 50 40 30 20

16. (c)
17. (d)
18. (c)
19. (a)
20. (d)

Direction (21 – 25) :
⇒ From the condition (i), there are two possible arrangements of this question.

- From the Condition (iv) and condition (viii)
23. (d)
24. (e)
25. (e)

Direction (26-30)
26. (e): Only I course of action follows because it is mentioned in statement that hill area is severely damaged. II and III course of action do not follow because it is not mention in the statement that the state Govt. is not capable of tackling Rs. 200 cr. burden and govt. can’t levy relief tax to the corporate sectors to ease burden.
27. (c): Only III course of action follows. I and II are extreme course of action. So, these two do not follow and III one is preventive course of action.
28. (b): I and III are extreme course of action. Only IIInd course of action is preventive.
29. (e): All courses of action followed. I and II have immediate impact for flood related problems and river bed should be cleared after receding of water level.
30. (d): Only II and III follow because both are preventive courses of action.

Direction (31 – 35) :
31. (b) The bumper crop has led to the large distribution of food grain by the government.
32. (c) both the statement (I) and (II) are independent causes because (I) happened so that students could see more of the world.
     (II) happened so that the school may attend to other important tasks. There may be different reasons for them.
33. (d) Statement (I) has happened because of increased supply of fruits.
     Statement (II) has happened because of decreased supply of food grains.
     Both are the effects of independent causes
34. (e) Both the statements seem to have a common cause – agitation on a large scale. Both are the effect of some common cause.
35. (a) (I) is the cause and (II) is the effect. the fear of rain has led to the tournament being called off.
36. (b)
37. (c)
38. (b)
39. (e)
40. (a)
41. (a)
42. (c)
43. (b)
44. (c)
45. (d)