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1

Reasoning Ability

Direction (1-5): Study the following information carefully and answer the questions given below.

Nine persons viz. M, N, O, P, Q, R, S, T and U are traveling to a place on 3rd, 15th and 22nd of January, February and March of the same year, but not necessarily in the same order. Not more than one person travels to a place on the same date of the same month.

T travels to the place in the month having less than 31 days and two persons before S. Q travels before T but doesn't travel in the same month and same date as T and S. Only two persons travel to the place between Q and N who travels in the same date as R.O travels to the place immediately before R.M travels in the same month as U and in the same date as P where not more than three persons travel between M and P.

1. Who among the following person travels on 15th of March?
a) The one who travels four persons after M
b) The one who travels two persons before R
c) The one who travels immediately after S
d) The one who travels three persons after P
e) None of these

2. In which of the following date and month does N travel?
a) 3rd January
b) 22ndFebruary
c) 15th February
d) 3rdFebruary
e) None of these

3. If M is related to T and Q is related to S in a certain way, then who among the following person is related to O?
a) P
b) T
c) N
d) U
e) None of these

4. Which of the following statement is/ are true with respect to the final arrangement?
a) Three persons travel between U and S
b) P neither travels in the same month nor in the same date with T
c) More than two persons travel after R

d) N travels four persons after U and two persons before O
e) None of these

5. How many persons travel between U and M?
a) One
b) Two
c) Three
d) More than three
e) None

Direction (6-10): Study the following information carefully and answer the questions given below.

Eight persons viz. A, B, C, D, E, F, G and H are standing in straight line such that all of them are facing towards north, but not necessarily in the same order.

G stands second from one of the extreme ends and is to the immediate right of D. Only three persons stand between D and B who stands to the immediate left of E. The number of persons standing to the right of E is the same as the number of persons standing to the left of A, who stands adjacent to C. H doesn't stand at any of the ends.

6. How many persons stand between E and D?
a) One
b) Two
c) Three
d) More than three
e) None

7. Who among the following person stands second to the left of H?
a) The one who stands at the extreme left end
b) The one who stands to the immediate right of C
c) The one who stands third to the right of D
d) No such person
e) None of these

8. The number of persons standing to the right of C is the same as the number of persons standing to the left of _____.
a) E
b) F
c) B
d) H

2

e) None of these

9. What is the position of A with respect to G?
a) Second to the right
b) Immediate left
c) Third to the left
d) Immediate right
e) None of these

10. Four of the following five are alike in a certain way and hence form a group. Find the one that doesn't belong to that group.
a) AF
b) GC
c) CE
d) AB
e) DA

Direction (11-15): Study the following information carefully and answer the questions given below.
Eight persons viz. S, T, U, V, W, X, Y and Z are seated on a square table such that all of them are facing towards the centre, but not necessarily in the same order. Four persons are seated at the corners of the table while four persons are seated at the middle of the sides of the table.
V sits at one of the corners and three persons away from S, who sits to the immediate right of U. The number of persons from the left of U to V is the same as the number of persons from the right of S to T.Z sits second to the right of T and second to the left of Y who sits exactly in the middle of X and W. Both S and X are not adjacent to each other.

11. Who among the following person sits second to the right of X?
a) The one who sits third to the left of W
b) The one who sits fourth to the right of S
c) The one who sits second to the left of T
d) The one who sits to the immediate left of Y
e) None of these

12.If all the persons are made to sit in alphabetical order in clockwise direction with respect to S, then how many persons remain unchanged in their position (excluding S)?
a) One
b) Two
c) Three
d) More than three
e) None

13. In which of the following pair the second person sits to the immediate left of the first person?

a) VY
b) SW
c) XT
d) ZV
e) None of these

14. The number of persons from the right of Z to ___ is the same as the number of persons from the left of W to ____.
a) U, Y
b) S, X
c) V, Y
d) U, Z
e) None of these

15. Which of the following statement is/are true with respect to the final arrangement?
a) Z sits facing towards the one who sits to the immediate right of W
b) S sits third to the left of V
c) Two persons sit between Y and W when counted to the right of Y
d) Both Z and W are immediate neighbors of each other
e) None of these

Direction (16-20): Study the following information carefully and answer which among the following conclusion follows.

16. Statements:
Only a few Strom are Wind.
All Strom are Cyclone.
No Cyclone is Waves.
All Waves are Tsunami.
Conclusion:
I. No Wind is Tsunami.
II. Some Strom are not Waves.
a) Only I follow
b) Only II follow
c) Either I or II follow
d) Neither I nor II follow
e) Both I and II follow

17. Statements:
All Potential are Energy.
Some Energy are Kinetic.
Only a few Electric are Kinetic.
Some Electric are Solar.
Conclusion:
I. Some Potential are Kinetic.
II. All Solar are Energy.
a) Only I follow
b) Only II follow
c) Either I or II follow
d) Neither I nor II follow
e) Both I and II follow

3

18. Statements:
No Pipes is Cistern.
All Cistern are Tube.
Only a few Tube are Wires.
Some Wires are Cables.
Conclusion:
I. Some Tube are not Pipes.
II. Some Cables are Cistern.
a) Only I follow
b) Only II follow
c) Either I or II follow
d) Neither I nor II follow
e) Both I and II follow

19. Statements:
Only a few Distance are Work.
All Distance are Meter.
All Meter are Speed.
Some Speed are Time.
Conclusion:
I. Some Speed are Distance.

II. Some Meter areWork.
a) Only I follow
b) Only II follow
c) Either I or II follow
d) Neither I nor II follow
e) Both I and II follow

20. Statements:
Only a few Paint are Colour.
All Colour are Brush.
Some Brush is Stick.
Only a few Stick are Bamboo.
Conclusion:
I. Some Paint are Stick.
II. No Stick is Paint.
a) Only I follow
b) Only II follow
c) Either I or II follow
d) Neither I nor II follow
e) Both I and II follow

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Answer Key with Explanation

Direction (1-5):
1. Answer: C
2. Answer: B
3. Answer: A
4. Answer: D
5. Answer: E
Solution:

	January	February	March
3rd	M	P	S
15th	U	T	O
22nd	Q	N	R

Explanation:

1. T travels to the place in the month having less than 31 days and two persons before S. Q travels before T but doesn't travel in the same month and same date as T and S.

		January	February	March
Case 1	3rd		T	
	15th	Q		
	22nd		S	
Case 2	3rd			S
	15th		T	
	22nd	Q		
Case 3	3rd	Q		
	15th			S
	22nd		T	

4

2. Only two persons travel to the place between Q and N who travels in the same date as R. O travels to the place immediately before R. Hence, case 3 gets eliminated.

		January	February	March
Case 1	3rd		T	O
	15th	Q	N	R
	22nd		S	
Case 2	3rd			S
	15th		T	O
	22nd	Q	N	R
~~Case 3~~	3rd	Q	N	R
	15th			S
	22nd		T	

3. M travels in the same month as U and in the same date as P where not more than three persons travel between M and P. Hence, case 1 gets eliminated.

		January	February	March
~~Case 1~~	3rd	U	T	O
	15th	Q	N	R
	22nd	M	S	P
Case 2	3rd	M	P	S
	15th	U	T	O
	22nd	Q	N	R

Direction (6-10):
6. Answer: D
7. Answer: B
8. Answer: C
9. Answer: D
10. Answer: A
Solution:


```
D   G   A   C   B   E   H   F
↑   ↑   ↑   ↑   ↑   ↑   ↑   ↑
```
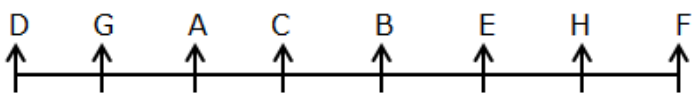
Explanation:
1. G stands second from one of the extreme ends and is to the immediate right of D. Only three persons stand between D and B who stands to the immediate left of E.

Case 1:
```
    D   G           B   E
    ↑   ↑   ↑   ↑   ↑   ↑   ↑   ↑
```
Case 2:
```
        B   E           D   G
    ↑   ↑   ↑   ↑   ↑   ↑   ↑   ↑
```
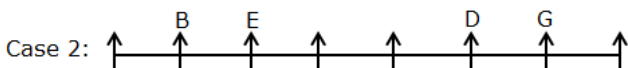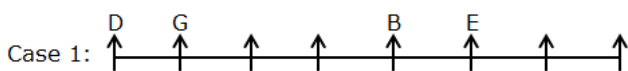
2. The number of persons standing to the right of E is the same as the number of persons

standing to the left of A, who stands adjacent to C. H doesn't stand at any of the ends. Hence, case 2 gets eliminated.

Case 1:
```
    D   G   A   C   B   E   H   F
    ↑   ↑   ↑   ↑   ↑   ↑   ↑   ↑
```
~~Case 2:~~
```
        B   E           D   G
    ↑   ↑   ↑   ↑   ↑   ↑   ↑   ↑
```
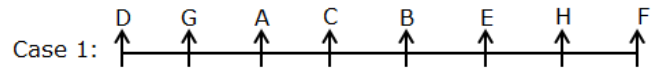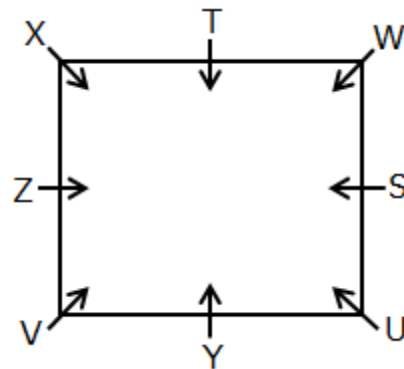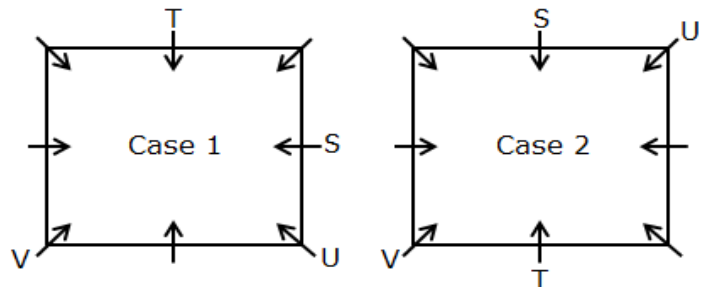
Direction (11-15):
11. Answer: D
12. Answer: B
13. Answer: C
14. Answer: A
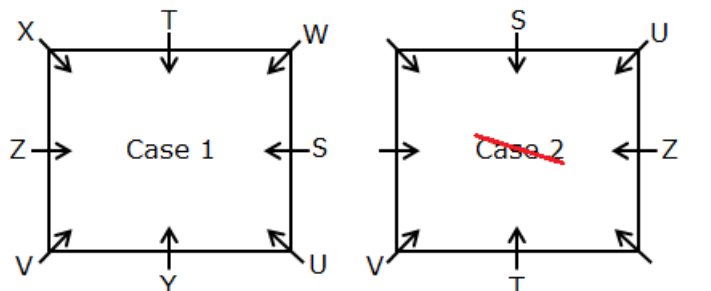**15. Answer: C**
Solution:

Explanation:
V sits at one of the corners and three persons away from S, who sits to the immediate right of U. The number of persons from the left of U to V is the same as the number of persons from the right of S to T.
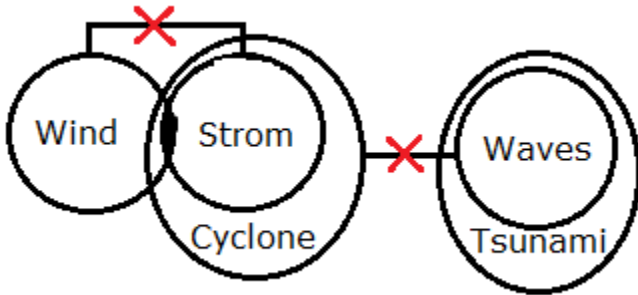

1. Z sits second to the right of T and second to the left of Y who sits exactly in the middle of X and W. Both S and X are not adjacent to each other. Hence, case 2 gets eliminated.
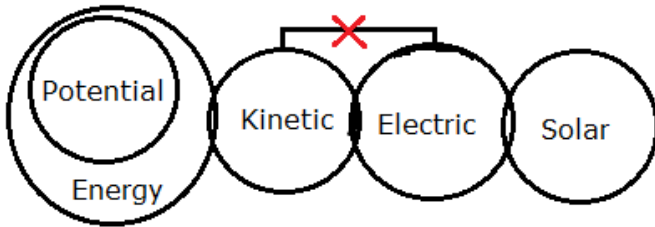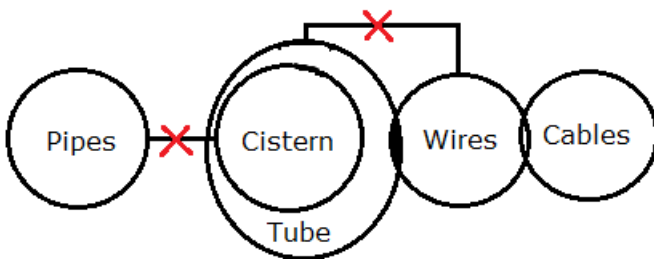

5

Direction (16-20):
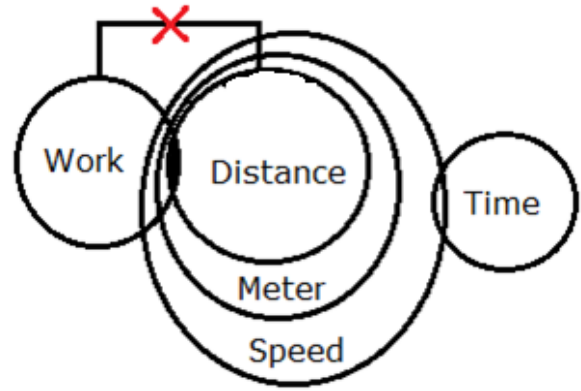**16. Answer: B**
Solution:

17. Answer: D
Solution:
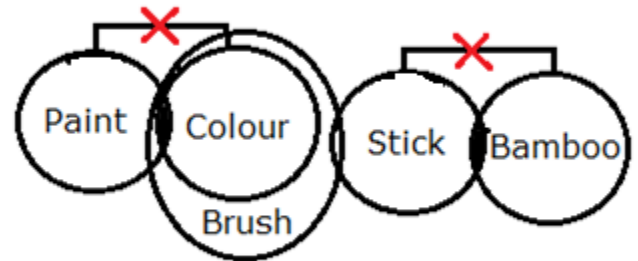

18. Answer: A
Solution:

19. Answer: E
Solution:

20. Answer: C
Solution:

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1

Quantitative Aptitude

Direction (01 – 05): Read the following information carefully and answer the questions based on it.
The pie chart given below shows the percentage distribution of number of students from Engineering background (EBD) studying in five management colleges out of total number of Engineering Background (EBD) in all colleges together. Total number of EBD in college D is 75 more than college B and 225 less than college E.

(Pie chart: A 22%, B, C 28%, D, E 19%)

Legend: ■ A ■ B ■ C ■ D ■ E
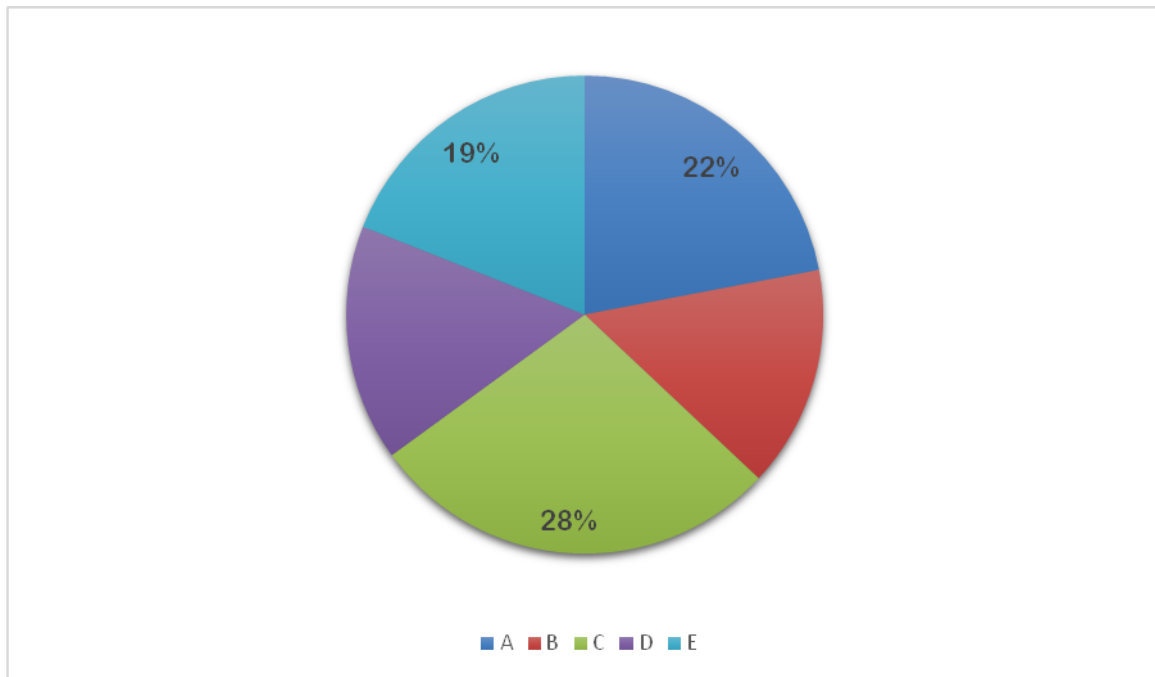
1) If in college B and E, there are two streams only – Marketing and Finance, 40% and 60% of EBD in college E and B study management in Finance respectively then find the total number of EBD study management in marketing in both colleges together?
a) 1315
b) 1295
c) 1305
d) 1325
e) None of these

2) If in college C, 28.56% of EBD got back in semester exams, 37.5% of EBD cleared the back in re – exam and got a year back. Find the number of EBD got a year back in college C?
a) 275
b) 375
c) 475
d) 325
e) None of these

3) If in all colleges together, 33.33% of total students are non – Engineering Background then find the total number of students in all colleges together?
a) 10250
b) 12250
c) 11450
d) 11250
e) None of these

4) Find the Average number of EBD studied in college A, C and E together.
a) 1775
b) 1625
c) 1675
d) 1745
e) None of these

5) Find the difference between the central angles corresponding to collage D and collage B?
a) 3.6^0
b) 4.6^0
c) 4.5^0
d) 7.2^0

2

e) None of these

Direction (06 – 10): Read the following information carefully and answer the questions based on it.

The table given below shows the % of employees (Male + Female) working in a department out of total number of employees working in company, and difference between male and female employees in a particular department. There are only five departments – X, Y, Z, P and Q and total employees in the company is 12500.

Departments	% of employees	Difference Between male and female employees (Female > males)
X	15%	675
Y	24%	1000
Z	18%	750
P	32%	800
Q	11%	225

6) Find the average number of male employees in department Z, P and Q together.
a) 975
b) 925
c) 965
d) 1075
e) None of these

7) Find the number of male employees in department X and Y together is approx. how much % of the number of female employees in department X and Y are together?
a) 51%
b) 48%
c) 50%
d) 49%
e) 47%

8) Total employees in department X, Y and Q together is approx. how much % of total female employees in department Z and P?
a) 162%
b) 159%
c) 160%
d) 165%
e) 161%

9) In department Z, Average salary of female employees is Rs. 25000 and the average salary of male employees is Rs. 32500. Find the average salary of an employee in department Z?
a)Rs. 27500
b)Rs. 27525
c)Rs. 27550
d)Rs. 27575
e) None of these

10) Find the ratio of male employees in company P to the number of female employees in company X?
a) 74:51
b) 64:57
c) 64:51
d) 54:51
e) None of these

Direction (11 – 15): Read the following information carefully and answer the questions based on it.

There are two Machines M1 and M2 that produce ice creams cups. The operating factor of machines for different range of ice – cream cups produced slot 1 (0 to 600), Slot 2 (600 to 1400) and slot 3 (1400 to 2300)

Operating factor (OPF) of machine defined as number of cups produced by machine in per kg of raw material.

Machine M1:50% of the sum of OPF first two slots (1 and 2) is 195 cups/kg and OPF of slot 1 is 75 cups/kg less than that in slot 3. Sum of efficiency of all three slots is 615 cups/kg.

Machine M2: OPF of slot 2 is 62.5% of slot 1 and OPF of slot 3 is 44.44% more than that of Machine M1 in the same slot. Respective ratio of OPF of slot 2 and slot 3 is in ratio of 3:5.

11) Find the total quantity of raw material used by machine M1 in all slots together?
a) 10.33 Kg
b) 12.33 Kg
c) 11.33 Kg
d) 11.66 Kg
e) None of these

3

12) Amount of raw material used by machine M2 in slot 3 is approx. how much % of the total amount of raw material used by machine M2 in all slots together?
a) 31.25%
b) 30%
c) 28.75%
d) 32.25%
e) 25%

13) Find the ratio of OPF factor of M1 in slot 2 to OPF factor of M2 in slot 3?
a) 38:55
b) 38:65
c) 48:55
d) 48:65
e) None of these

14) If the cost of one kg of raw material used for producing ice – cream cups is Rs. 624 then find the difference between the expenditure on raw material of machine M1 and M2 in slot 1?
a) Rs. 1248
b) Rs. 1296
c) Rs. 1236
d) Rs. 1286
e) None of these

15) Find the difference between the overall OPF factor of machine M1 and M2?
a) 227
b) 207
c) 247
d) 237
e) None of these

16) Arun invested Rs. P in Axis bank for 2 years. Bank promise to give compound interest at 24% per annum, but the bank actually gives 18% simple interest per annum. The difference between Expected interest and actual interest received by Arun is Rs. 1278.72 then find the value of P?
a)Rs. 6000
b)Rs. 8400
c)Rs. 7200
d)Rs. 9600
e) None of these

17) X and Y can do a piece of work in 50 days and 62.5 days. Both started the work and after some days X left the job and Z joined who can complete the whole work alone in 25 days. If X and Z worked for same number of days i.e. 'K' days and Z left 5 days before completion of work, then find the value of K?
a) 8
b) 12
c) 10
d) 6
e) None of these

18) Ratio of Present Age of Shweta and age of Arun after 12 years 3:5 respectively. The Respective ratio of Arun three years ago and the age of Leena after 6 years is 5:6. Find the sum of ages of Shweta and Arun if Shweta is 6 years younger than Arun?
a) 54 years
b) 64 years
c) 57 years
d) 48 years
e) None of these

19) In a society, 60% of the total population is working and out of the working population 40% were males. Out of non – working population 40% were females, if there are 210 males are non – working then find the total population of society?
a) 825
b) 975
c) 1050
d) 875
e) None of these

20) In vessel X, the ratio of alcohol and water is 4:1 and in vessel Y ratio is 18:7 respectively. In what ratio these two vessels should be mixed so that the concentration of water in resultant mixture becomes 35%.
a) 8:15
b) 7:15
c) 11:15
d) 2:5
e) None of these

Directions (21- 26): Find out the wrong number in the following number series.
21. 8, 12, 24, 60, 160, 630
a) 160
b) 24
c) 60
d) 630
e) 12

22. 121, 130, 112, 139, 102, 148, 94
a) 130
b) 148
c) 102

4

d) 94

e) 121

23. 8, 20, 44, 90, 188, 380

a) 44

b) 380

c) 188

d) 20

e) 90

24. 17, 33, 95, 375, 1869, 11207

a) 375

b) 17

c) 1869

d) 95

e) 11207

25. 252, 284, 329, 387, 457, 542

a) 284

b) 329

c) 457

d) 387

e) All are correct

26) 10   14   23   39   64   99

149

a) 14

b) 39

c) 64

d) 99

e) 149

Directions (27-32): What value should come in the place of (?) in the following questions?

27) √289 * 15 – 3672 ÷ √324 = ? * 9 - 84

a) 12

b) 17

c) 18

d) 15

e) 20

28) 170% of 540 + 12 * 69 – √1024 * √1764 = ? * 6

a) 67

b) 69

c) 63

d) 65

e) 71

29) 20% of 650 – 48% of 750 + 7084 ÷ 23 = ?

a) 72

b) 74

c) 78

d) 76

e) 70

30) 1224 ÷ √289 + 40% of 450 – 81 = ? * √81

a) 19

b) 21

c) 17

d) 15

e) 23

31) 9947 ÷ 49 + 1007 ÷ 53 + ? = 3016 ÷ 13

a) 10

b) 8

c) 12

d) 16

e) 14

32) 130 * 5 + 1660 ÷ 83 + 2640 ÷ 11 = ?

a) 880

b) 910

c) 930

d) 950

e) 870

Directions (33-38): Following question contains two equations as I and II. You have to solve both equations and determine the relationship between them.

33)

I) $x^2 + 18x + 65 = 0$

II) $y^2 + 19y + 70 = 0$

a) x> y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x< y

e) x ≤ y

34)

I) $5x^2 + 45x + 100 = 0$

II) $y^2 – y – 20 = 0$

a) x> y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x< y

e) x ≤ y

35)

I) $x^2 – 33x + 272 = 0$

II) $y^2 – 29y + 210 = 0$

a) x> y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x< y

e) x ≤ y

36)

I) $2x^2 – 30x + 108 = 0$

II) $y^2 – 18y + 77 = 0$

a) x> y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x< y

5

e) x ≤ y

37)

I) $x^2 + 29x + 198 = 0$

II) $y^2 + 19y + 90 = 0$

a) x> y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x< y

e) x ≤ y

38)

I) $x^2 - 12x - 288 = 0$

II) $y^2 + 31y + 240 = 0$

a) x> y

b) x ≥ y

c) x = y or relationship can't be determined.

d) x< y

e) x ≤ y

Directions (39-44): What approximate value should come in the place of (?) in the following questions?

39) 79.97 * 32.12 * ? = 58.18² – 12.09 * 66.91

a) 3

b) 6

c) 8

d) 1

e) 11

40) 54.05% of 1399.890 + 80% of ? = 3315.901

a) 2900

b) 3100

c) 3200

d) 3300

e) 3400

41) √1850 + ? = (25.99 ÷ 2.891) * √2300

a) 373

b) 379

c) 377

d) 383

e) 387

42) (311.92 ÷ 1890.08) * (84.29 ÷ 6239.93) * ? = 4.942

a) 2250

b) 2280

c) 2290

d) 2300

e) 2240

43) (35936.981)^(1/3) + (19683.081)^(1/3) + √899 = ?

a) 100

b) 90

c) 60

d) 70

e) 80

44) (0.701)⁴⁰ ÷ (0.4901)¹⁸ * (0.343) = (0.7)^?

a) 8

b) 7

c) 11

d) 9

e) 12

Directions (45-50): What value should come in the place of (?) in the following number series?

45) 13.5, 38, 124, 257, 779, ?

a) 1565

b) 1575

c) 1555

d) 1585

e) 1595

46) 1, 145, ?, 309, 345, 361, 365

a) 266

b) 289

c) 314

d) 341

e) 245

47) 17, 24, 36, 51, 67, ?

a) 90

b) 96

c) 82

d) 88

e) 76

48) 23, 46, 65, 82, 95, ?

a) 101

b) 98

c) 106

d) 118

e) 112

49) 19, 50, 108, 177, 253, ?

a) 338

b) 346

c) 358

d) 319

e) 326

50) 11, 40, 195, ?, 8141, 65120

a) 1172

b) 1164

c) 1178

d) 1158

e) 1151

6

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Answer Key with Explanation

Directions (01 – 05):
Total number of EBD in collage B and D together = 100% - (22% + 28% + 19%) = 31% of total EBD
D + B = 31% of total EBD ……………….. (1)
Also,
D – B = 75…………………. (2)
On adding both equations,
2D = 31% of total + 75……………….. (3)
Also, E – D = 225 and E = 19% of total
So, D = 19% of total – 225
Or 2D = 38% of total – 450……………… (4)
From equation 3 and Equation 4
31% of total + 75 = 38% of total – 450
7% of total = 525
Total number of EBD = (450 + 75)/7 x 100 = 7500
So, D = 19% of 7500 – 225 = 1200
And B = 1200 – 75 = 1125
Now we can find the data for all colleges

Collage	Number of EBD
A	1650
B	1125
C	2100
D	1200
E	1425
Total	7500

1) Answer: C
Total number of EBD in Marketing branch of collage E = 60% of 1425 = 855
Total number of EBD in Marketing branch of college B = 40% of 1125 = 450
Required sum = 855 + 450 = 1305

2) Answer: B
Total number of EBD got back in college C = 2100 x 2/7 = 600
Number of EBD cleared back = 600 x 37.5% = 225
Number of EBD got year back = 600 – 225 = 375

3) Answer: D
Total number of EBD in all collages together = 66.66% of total students
So, 2/3 x total students = 7500
Total students in all collages together = 7500 x 3/2 = 11250

4) Answer: E
Required average = (1650 + 2100 + 1425)/3 = 5175/3 = 1725

5) Answer: A
Difference between number of EBD in collage B and D = 2100 – 1125 = 75
Required central Angle = $75/7500 \times 360^0 = 3.6^0$

Directions (06 – 10):
For department X
Total number of employees = Female + male = 15% of 12500 = 1875…… (1)
Difference between number of female and male employees = Female – Male= 675…… (2)
On solving both equations
Female employees = (1875 + 675)/2 = 1275
Male employees = (1875 – 675)/2 = 600
Similarly we can find for all the departments

7

Departments	Number of Employees	Female employees	Male Employees
X	1875	1275	600
Y	3000	2000	1000
Z	2250	1500	750
P	4000	2400	1600
Q	1375	800	575

6) Answer: A
Average number of male employees in company (Z + P + Q) = (750 + 1600 + 575)/3 = 975

7) Answer: D
Number of male employees in department (X + Y) = 600 + 1000 = 1600
Number of female employees in department (X + Y) = 1275 + 2000 = 3275
Required % = 1600/3275 x 100 = 49%

8) Answer: C
Total employees in department (X + Y + Q) = 1875 + 3000 + 1375 = 6250

Directions (11 – 15)
Machine M1
50% of (slot 1 + slot 2) = 195
Slot 1 + slot 2 = 390…………… (1)
Also, slot 3 = 75 + slot 1………….. (2)
And, slot 1 + slot 2 + slot 3 = 615............ (3)
Put value from equation 1 and equation 2 in equation 3
So, 390 + slot 1 + 75 = 615
Slot 1 = 150

Total number of female employees in company (Z + P) = 1500 + 2400 = 3900
Required % = 6250/3900 x 100 = 160%

9) Answer: A
By the concept of weighted average,
Average salary of an employee in department Z = (1500 x 25000 + 750 x 32500) / 2250
= [750 x (2 x 25000 + 32500)] / 2250
= 82500/3 = 27500

10) Answer: C
Required ratio = 1600:1275 = 64:51

Slot 2 = 390 – 150 = 240
Slot 3 = 75 + 150 = 225
Machine M2
OPF of slot 3 = (1 + 4/9) x 225 = 13/9 x 225 = 325
OPF of slot 2 = 3/5 x 325 = 195
Also, OPF of slot 2 = 62.5% of slot 1
OPF of slot 1 = 195/62.5 x 100 = 312

Machine	Slot 1 (OPF)	Slot 2 (OPF)	Slot 3 (OPF)
M1	150	240	225
M2	312	195	325

11) Answer: C
Amount of Raw material used in Slot 1 by Machine M1 = 600/150 = 4 kg
Amount of Raw material used in Slot 2 by Machine M1 = 800/240 = 3.33 kg
Amount of Raw material used in Slot 3 by Machine M1 = 900/225 = 4
Total amount of raw material used by machine M1 = 4 + 3.33 + 4 = 11.33 kg

12) Answer: A
Amount of raw material used by M2 = 600/312 + 800/195 + 900/325 = 8.8 kg (approx.)

Amount of raw material used by M2 in slot 3 = 2.75 kg
Required % = 2.75/8.8 x 100 = 31.25%

13) Answer: D
Required ratio = 240: 325 = 48:65

14) Answer: B
Expenditure on raw material of machine M1 in slot 1 = 600/150 x 624 = Rs. 2496
Expenditure on raw material of machine M2 in slot 2 = 600/312 x 624 = Rs. 1200
Required difference = 2496 – 1200 = Rs. 1296

15) Answer: E
Overall OPF factor of machine M1 = 615

8

Overall OPF factor of Machine M2 = 312 + 195 + 325 = 832

Required difference = 832 – 615 = 217

16) Answer: C

Total expected compound interest = 24 + 24 + (24 x 24)/100 = 53.76% of P

Actual simple interest received = 2 x 18% = 36% of P

According to given condition

(53.76% - 36%) of P = 1278.72

17.76% of P = 1278.72

Value of P = 1278.72/17.76 x 100 = Rs. 7200

17) Answer C

Let the total work be LCM of 50 and 62.5 = 250 units

Efficiency of X = 250/50 = 5 units/day

Efficiency of Y = 250/62.5 = 4 units/day

Efficiency of Z = 250/25 = 10 units/day

Now, according to question

(5 + 4) x K + (4 + 10) x K + 5 x 4 = 250

23K = 230

K = 10

18) Answer: E

Let the present age of ArunShweta and Leena is a, b and c respectively.

So, (a + 12)/b = 5/3

Also, a = b + 6

So, (a + 12) / (a - 6) = 5/3

3a + 36 = 5a – 30

2a = 66

So, a = 33

And b = 33 – 6 = 27

Required sum = 33 + 27 = 60 years

19) Answer: D

Let the total population of society = 100a

Number of working people = 60% of 100a = 60a

Number of non – working people = 100a – 60a = 40a

Number of non – working males = 60% of 40a = 24a

Now, 24a = 210

So, 100a = 210/24 x 100 = 875

20) Answer: B

% of water in mixture X = 1/5 x 100 = 20%

% of water in mixture Y = 7/25 x 100 = 28%

So in resultant mixture = 35%

By concept of Allegation,

20%   28%

      35%

7%   15%

Required ratio = 7:15

21) Answer: A

Given series is

8	12	24	60	**180**	630
×1.5	×2	×2.5	×3	x3.5	

22) Answer: C

Given series is

121	130	112	139	**103**	148	94
+9	-18	+27	-36	+45	-54	

23) Answer: E

8×2+4 =20

20×2+4 =44

44×2+4 = **92**

92×2+4 =188

188x2+4=380

24) Answer: B

18×2-3 = 33

33×3-4 = 95

95×4-5 = 375

375×5-6 =1869

1869×6-7 =11207

25) Answer: C

Given series is

252	284	329	387	**458**	542
32	45	58	**71**	84	
13	13	**1 3**	13		

26) Answer: D

10 + 2² = 14

14 + 3² = 23

23 + 4² = 39

39 + 5² = 64

64 + 6² = **100**

100 + 7² = 149

27) Answer: D

$\sqrt{289}$ * 15 – 3672 ÷ $\sqrt{324}$ = ? * 9 - 84

255 – 204 = ? * 9 - 84

15 = ?

28) Answer: A

170% of 540 + 12 * 69 – $\sqrt{1024}$ * $\sqrt{1764}$ = ? * 6

918 + 828 – 1344 = ? * 6

67 = ?

29) Answer: C

20% of 650 – 48% of 750 + 7084 ÷ 23 = ?

130 – 360 + 308 = ?

78 = ?

30) Answer: A

1224 ÷ $\sqrt{289}$ + 40% of 450 – 81 = ? * $\sqrt{81}$

9

$72 + 180 – 81 = ? * 9$

$19 = ?$

31) Answer: A

$9947 ÷ 49 + 1007 ÷ 53 + ? = 3016 ÷ 13$

$203 + 19 + ? = 232$

$? = 10$

32) Answer: B

$130 * 5 + 1660 ÷ 83 + 2640 ÷ 11 = ?$

$650 + 20 + 240 = ?$

$? = 910$

33) Answer: C

$x^2 + 18x + 65 = 0$

$x^2 + 13x + 5x + 65 = 0$

$x(x + 13) + 5(x + 13) = 0$

$(x + 5)(x + 13) = 0$

$x = -5, -13$

$y^2 + 19y + 70 = 0$

$y^2 + 5y + 14x + 70 = 0$

$y(y + 5) + 14(x + 5) = 0$

$(y + 5)(y + 14) = 0$

$y = -5, -14$

Relationship between x and y cannot be established.

34) Answer: E

$5x^2 + 45x + 100 = 0$

$5x^2 + 25x + 20x + 100 = 0$

$5x(x + 5) + 20(x + 5) = 0$

$(5x + 20)(x + 5) = 0$

$x = -4, -5$

$y^2 – y – 20 = 0$

$y^2 – 5y + 4y – 20 = 0$

$y(y – 5) + 4(y – 5) = 0$

$(y + 4)(y – 5) = 0$

$y = -4, 5$

$x ≤ y$

35) Answer: A

$x^2 – 33x + 272 = 0$

$x^2 – 16x – 17x + 272 = 0$

$x(x – 16) – 17(x – 16) = 0$

$(x – 17)(x – 16) = 0$

$x = 17, 16$

$y^2 – 29y + 210 = 0$

$y^2 – 14y – 15y + 210 = 0$

$y(y – 14) – 15(y – 14) = 0$

$(y – 15) (y – 14) = 0$

$y = 15, 14$

$x > y$

36) Answer: C

$2x^2 – 30x + 108 = 0$

$2x^2 – 12x – 18x + 108 = 0$

$2x(x – 6) – 18(x – 6) = 0$

$(2x – 18)(x – 6) = 0$

$x = 9, 6$

$y^2 – 18y + 77 = 0$

$y^2 – 11y – 7y + 77 = 0$

$y(y – 11) – 7(y – 11) = 0$

$(y – 7)(y – 11) = 0$

$y = 7, 11$

Relationship between x and y cannot be established.

37) Answer: D

$x^2 + 29x + 198 = 0$

$x^2 + 18x + 11x + 198 = 0$

$x(x + 18) + 11(x + 18) = 0$

$(x + 11)(x + 18) = 0$

$x = -11, -18$

$y^2 + 19y + 90 = 0$

$y^2 + 9y + 10y + 90 = 0$

$y(y + 9) + 10(y + 9) = 0$

$(y + 10)(y + 9) = 0$

$y = -10, -9$

$x < y$

38) Answer: A

$x^2 – 12x – 288 = 0$

$x^2 – 24x + 12x – 288 = 0$

$x(x – 24) + 12(x – 24) = 0$

$(x + 12)(x – 24) = 0$

$x = -12, 24$

$y^2 + 31y + 240 = 0$

$y^2 + 15y + 16y + 240 = 0$

$y(Y + 15) + 16(y + 15) = 0$

$(y + 16)(y + 15) = 0$

$y = -16, -15$

$x > y$

39) Answer: D

$79.97 * 32.12 * ? = 58.18^2 – 12.09 * 66.91$

$2560 * ? = 3364 – 804$

$? = 1$

40) Answer: C

54.05% of $1399.890 + 80\%$ of $? = 3315.901$

$756 + 80 \%$ of $? = 3316$

80% of $? = 2560$

$? = 3200$

41) Answer: A

$\sqrt{1850} + ? = (25.99 ÷ 2.891) * \sqrt{2300}$

$43 + ? = 26/3 * 48$

$43 + ? = 416$

$? = 373$

42) Answer: A

$(311.92 ÷ 1890.08) * (84.29 ÷ 6239.93) * ? = 4.942$

$1/22.5 * 1/20 * ? = 5$

10

? = 2250

43) Answer: B

$(35936.981)^{(1/3)} + (19683.081)^{(1/3)} + \sqrt{899} = ?$

$33 + 27 + 30 = ?$

$90 = ?$

44) Answer: B

$(0.701)^{40} \div (0.4901)^{18} * (0.343) = (0.7)^?$

$(0.7)^{40}/(0.7)^{36} * (0.7)^3 = (0.7)^?$

$(0.7)^{40 - 36 + 3} = (0.7)^?$

$? = 7$

45) Answer: A

$13.5 * 2 + 11 = 38$

$38 * 3 + 10 = 124$

$124 * 2 + 9 = 257$

$257 * 3 + 8 = 779$

$779 * 2 + 7 = 1565$

46) Answer: E

$1 + 12^2 = 145$

$145 + 10^2 = 245$

$245 + 8^2 = 309$

$309 + 6^2 = 345$

$345 + 4^2 = 361$

$361 + 2^2 = 365$

47) Answer: C

$17 + (7 * 1) = 24$

$24 + (6 * 2) = 36$

$36 + (5 * 3) = 51$

$51 + (4 * 4) = 67$

$67 + (3 * 5) = 82$

48) Answer: C

$23 + 23 = 46$

$46 + 19 = 65$

$65 + 17 = 82$

$82 + 13 = 95$

$95 + 11 = 106$

49) Answer: A

$19 + (31 * 1) = 50$

$50 + (29 * 2) = 108$

$108 + (23 * 3) = 177$

$177 + (19 * 4) = 253$

$253 + (17 * 5) = 338$

50) Answer: B

$11 * 4 - 4 = 40$

$40 * 5 - 5 = 195$

$195 * 6 - 6 = 1164$

$1164 * 7 - 7 = 8141$

$8141 * 8 - 8 = 65120$

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1

English Language

Direction (1-7): In the following passage, some of the words have been highlighted in bold. Read the passage and try to understand what it is given. Then replace the highlighted words with correct option in order to make grammatically and contextually sense. In a case the highlighted word is given correctly, and then marks 'No Improvement Required' as the right answers choice.

The binary of men as **properties (A)** and women as passive grievers is perhaps the most common projection of gendered realities in a conflict zone. Men are often seen as principal negotiators who make the difference when it comes to critical decisions on everyone's behalf. Women's participation, roles, risks, and their circumstances, on the other hand, get **instance (B)** in this binary.Women in conflict zones are faced with **commissioned (C)** circumstances with regard to their status, roles, expectations and vulnerabilities. In conflict zones like Kashmir, these realities compound other vulnerabilities for women. Although the lives of men and women are **contrastingly (D)** linked, the pre-existing socio-cultural understanding and the masculinist nature of conflict increase women's vulnerabilities. For instance, in Kashmir, frequent visits by security personnel to houses on tip-offs or even for routine enquiries **wander (E)** women. For women, these visits by security personnel represent a dangerous concoction of **insisted (F)** power and a hostile male gaze, complicating not just their present but also their future conditions. After their houses were raided, some families found it difficult to find marriage alliances for girls in their families as they were suspected to have been violated. Unrestrained power and the lack of accountability have led to the creation of the image of the armed forces as an **encouragement (G)** in the people's consciousness. Interface between the people and the armed forces results in stigmatization. This is felt most strongly in the case of young women, widows and single mothers.

1. Which word will replace the word in (A)?
A. Conventions
B. Skills
C. Reflections
D. Combatants
E. No improvement required

2. Which word will replace the word in (B)?
A. Eclipsed
B. Reflected
C. Furnished
D. Compelled
E. No improvement required

3. Which word will replace the word in (C)?
A. Venturing
B. Intriguing
C. Terrorizing
D. Undertaking
E. No improvement required

4. Which word will replace the word in (D)?
A. Assertively
B. Intricately
C. Humbly
D. Keenly
E. No improvement required

5. Which word will replace the word in (E)?
A. Despair
B. Justify
C. Manifest
D. Stigmatize
E. No improvement required

6. Which word will replace the word in (F)?
A. Scaled
B. Resourced
C. Unbridled
D. Persisted
E. No improvement required

7. Which word will replace the word in (G)?
A. Contempt
B. Adversary
C. Inclination
D. Attribute
E. No improvement required

Directions (8-11): In each of the following questions, two statements are given with a blank in each. Below each questions, five prepositions are given, one of which could

2

fit in both the blanks to make each statement grammatically correct and contextually meaningful. Choose the appropriate preposition to fill in the blank in each case.

8.
(I) The voyage will be led by Bachendri Pal, the first Indian woman to scale Mt. Everest, and will have participants aged 50 and _____from across India.
(II)The tomb was built during the lifetime of the king and he wanted that it should be placed _____his grave after he died.
A. Aboard
B. Beneath
C. Above
D. Beyond
E. Except
9.
(I)PM 2.5, the most toxic air pollutant that can travel deep into lungs and trigger a range of diseases including cancer, is the prime factor _____the poor air quality in the city.
(II)Harshita and Anjum spoke about their acting journey and the challenges that lie _____the camera.
A. Despite
B. Excluding
C. Between
D. Below
E. Behind
10.
(I)Meghan said that she had been "silenced" as opposed to choosing "silence" _____her stint in the royal family.
(II)Science was abused _____the pandemic through misinformation that, at times, served political interests.
A. Down
B. During
C. Following
D. Near
E. Outside
11.
(I) An official of the Eastern Railway said that they had cut off power supply in the building from _____ 6pm.
(II)The important technology uses near-infrared light to detect objects _____it and, in the

process, creates high-resolution scans of thousands of data points many times a second.
A. Among
B. Against
C. Around
D. Behind
E. Before
Directions (12-16): In each of the following questions, a part of the sentence is given in bold which is grammatically and contextually correct. Below each question are given alternatives to the part which is not highlighted as (a), (b), (c), and (d) which may improve the non-highlighted part. Choose the correct alternative. In case no improvement is needed your answer is (e) i.e. 'No improvement required.
12. To using magnetic **with brain-like networks to program teach devices to better generalize about different objects, researchers have developed a process.**
(a) For using magnetic
(b) To be used magnetic
(c) To use magnetics
(d) To using magnetic
(e) No correction required
13. **A folk singer dressed in traditional national costume sang a folk song,** which originated from **the region of Rhodope mountains.**
(a) That originated of
(b) Which has originated from
(c) That has the origin of
(d) That originated off
(e) No correction required
14. **Poverty is too much with us and its presence across vast stretches of our country** disturbed our conscious.
(a) Disturbed our consciousness
(b) Disturbs our conscience
(c) Disturb our conscious
(d) Disturbed our conscience
(e) No correction required
15. **In the coming** decade, company which **adopt remote working will win the war for talent over rivals who don't.**
(a) Decades, company that
(b) Decade, companies which
(c) Decade, the company which
(d) Decades, companies that
(e) No correction required

3

16. IIT Indore will be broadcasted **educational content on Science and Mathematics for the students of 6 to 8 under the National Invention Campaign.**
(a) Will broadcast
(b) Are going to broadcast
(c) Going to be broadcasting
(d) Will be broadcast
(e) No correction required

Directions (17-18): In each of the questions given below, four words are given in bold. These four words may or may not be in their correct position. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct. Find the correct combination of words that replace each other. If the sentence is correct as it is, select 'E' as your option.

17.The **disengage(A)** for the U.S. is that it cannot **conundrum(B)** from Afghanistan, if that is its **priority (C)**, without accepting Pakistan's **terms (D)**.
A. A-C
B. B-D
C. C-D
D. A-B
E. No interchange required

18. For years, high-skilled **economic** migrants (A)/seeking to **relocated** to the U.S. have (B)/faced **uncertainty** due to lack of (C)/clarity and flexibility in the H-1B visa **programme**.(D)
A. Economic
B. Relocated
C. Uncertainty
D. Programme
E. All are correct

Directions (19-20):In each of the questions given below, a sentence is divided into four parts with a bold word in each part. Among these four words, a word may or may not be appropriate. Choose the inappropriate word. If the all the words are correct, select 'E' i.e. 'All are correct' as your option.

19.Compared to the other states, Kerala has been **concerned**(A) about the development **consequences**(B) and is committed to **resolving**(C) them by combining **growing**(D) with equity
A. Concerned
B. Consequences
C. Resolving
D. Growing
E. All are correct

20. It is time the Centre **dissuades** the legislation (A)/which threatens to not only **unleash** a (B)/sort of 'work visa' **regime** for Indians within (C)/the country but also damage **crucial** workplace diversity.(D)
A. Dissuades
B. Unleash
C. Regime
D. Crucial
E. All are correct

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4

Answer Key with Explanation

1. Answer: D

Here, the context of the sentence is that in the gendered realities of the world, men are considered as warriors and women merely flaccid grievers. In this context, word given in option (D) can replace the world highlighted in (A) to make the sentence grammatically correct and contextually meaningful.

2. Answer: A

The context of the sentence is that Men are considered as primary decision makers on everyone's behalf and in this situation, women's participation, their risks and roles get overshadowed due to the male dominance. In this context, word given in option (A) can replace the word highlighted in (B) to make the sentence grammatically correct and contextually meaningful.

3. Answer: B

This is the context of the sentence, "Since women's role gets surpassed because of male dominance, they are compelled to face captivating and diverting circumstances in respect to their roles, status, vulnerabilities and expectations." In this context, word given in option (B) can replace the word highlighted in (C) to make the sentence grammatically correct and contextually meaningful.

4. Answer: B

The context of this sentence is that the lives of men and women are deeply tangled with each other but still the women's vulnerabilities are hugely increased due to the male-inclined nature of social and cultural understanding. In this context, word given in option (B) can replace the word highlighted in (D) to make sentence grammatically correct and contextually meaningful.

5. Answer: D

The sentence intends to state that 'foe example in Kashmir, security personnel visit houses frequently for routine enquiry. It vilifies those women and they become subject to denouncement. In this context, word given in option (D) can replace the word highlighted in (E) to make sentence grammatically correct and contextually meaningful.

6. Answer: C

The sentence intends to state that the frequent visits by the security personnel represent an unrestricted and uncurbed power of male gaze which complicates their present as well as future conditions. In this context, word given in option (C) can replace the word highlighted in (F) to make sentence grammatically correct and contextually meaningful.

7. Answer: B

Here, the sentence directs to state that this unchecked power and lack of accountability creates the image of the armed forces as an enemy or opponent in the people's thinking. In this context, word given in option (B) can replace the word highlighted in (G) to make

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sentence grammatically correct and contextually meaningful.

8. Answer: C

'Above' can fit in both the blanks to make each statement grammatically correct and contextually meaningful.

Above: at or to a higher place or position than something/somebody

-more than something; greater in number, level or age than somebody/something

-of greater importance or of higher quality than somebody/something

9. Answer: E

'Behind' can fit in both the blanks to make each statement grammatically correct and contextually meaningful.

Behind: at or towards the back of somebody/something, and often hidden by it or them

-making less progress than somebody/something

-giving support to or approval of somebody/something

-responsible for starting or developing something

10. Answer: B

'During' can fit in both the blanks to make each statement grammatically correct and contextually meaningful.

During: all through a period of time

-at some point in a period of time

11. Answer: C

'Around' can fit in both the blanks to make each statement grammatically correct and contextually meaningful.

Around: surrounding somebody/something; on each side of something

-on, to or from the other side of somebody/something

-in or to many places in an area.

12. Answer: C

Instead of using "to using", "to use" should be used. In this sentence, "magnetics", a subject is talked about. So use of adjective "magnetic" is wrong here. Option (c) will replace the bold part

in the sentence to make it grammatically correct and contextually meaningful sentence. Hence, option (c) is the right answer choice.

13. Answer: E

The sentence is grammatically correct and needs no replacement. Hence, option (e) is the right answer choice.

14. Answer: B

The sentence is in present tense so the use of "disturbed' is incorrect here. It should be "disturbs" instead of "disturbed" because of the singular subject.

Conscious means aware of one's surrounding and responding to one's surrounding. The word is not making any sense here looking at the context of the sentence. The noun "conscience" (noun) should be used here which means a person's moral sense of right and wrong, viewed as acting as a guide to one's behavior. So correct phrase will be **option (b)** which will replace the highlighted phrase in the given sentence. Hence, **option (b)** is the right answer choice.

15. Answer: D

"for decade" is wrong, and it should be "for decades" in order to indicate a very long time. So, "decades" will replace "decade. "adopt" here is used in plural form, which means that the subject has to be plural. Therefore, "company (noun)" should be replaced by "companies". The final phrase that will replace the highlighted phrase in the given sentence will be **"decades, companies that".** Hence, **option (d)** is the right answer choice.

16. Answer: A

"Broadcast (verb)" is not changed even in past and it remains the same in past participle forms as well. So, using "broadcasted" is erroneous in the given sentence. The phrase given in option (a) will replace the one highlighted in the given passage. Hence, **option (a)** is the right answer choice.

17. Answer: D

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Here, A-B will replace each other in order to make the sentence grammatically and contextually correct.

The correct sentence will be,

The **conundrum** for the U.S. is that it cannot **disengage** from Afghanistan, if that is its **priority**, without accepting Pakistan's **terms**.

Conundrum: a confusing and difficult problem or question.

18. Answer: B

Here, 'relocated' wrong and it will be replaced by 'relocate' to make the sentence grammatically and contextually correct. First form of verb is used with 'to'.

19. Answer: D

Here, 'Growing' is inappropriate in the context of the given sentence.

The sentence intends to state that Kerala aims to resolve consequences of development through the combination of growth and equity.' Growing' here is an adjective;we need a noun which will be 'growth' to make the sentence grammatically correct and contextually meaningful. Hence, option D is the right answer.

20. Answer: E

All the words highlighted in the given sentence are correct. Hence, E is the right answer choice.