

SECTION A

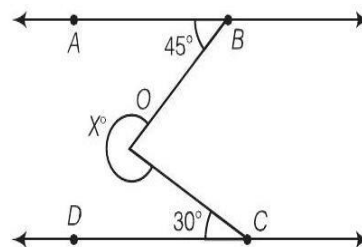
GENERAL AWARENESS

1. A national political party is 'one which received 6% of the total votes polled in
 - (a) two or more states
 - (b) the capital city
 - (c) four or more states
 - (d) in all the states
2. The Bhakti cult spread in Maharashtra with the teaching of
 - (a) Saint Tukaram
 - (b) Saint Jnaneshvara
 - (c) Samarth Guru Ramadas
 - (d) Chaitanya Mahaprabhu
3. Government securities are considered liquid because they are
 - (a) backed by the government treasury
 - (b) convertible into other types of saving deposits
 - (c) quickly and easily marketable
 - (d) stable in value
4. Bull and Bear are related to which commercial activity?
 - (a) Banking
 - (b) E-commerce
 - (c) International trade
 - (d) Stock market
5. The first to come and last to leave India were
 - (a) The Portuguese
 - (b) The French
 - (c) The English
 - (d) The Dutch
6. Buddha gave his first religious message at
 - (a) Rajagriha
 - (b) Pataliputra
 - (c) Gaya
 - (d) Sarnath
7. A firm practising price discrimination will be
 - (a) charging different prices for different qualities of a product
 - (b) buying from the cheapest and selling in the dearest markets
 - (c) charging different prices in different markets for a product
 - (d) buying only from firms selling in bulk at a distance.
8. The practice of selling goods in a foreign country at a price below their domestic selling price is called
 - (a) 'diplomacy'
 - (b) 'discrimination'
 - (c) 'dumping'
 - (d) 'double pricing'
9. In which of the following countries long staple type of cotton is mainly grown?
 - (a) India
 - (b) Egypt
 - (c) Greece
 - (d) China
10. Which party provided two Prime Ministers in 2 years time?
 - (a) BJP
 - (b) Janata Party
 - (c) Janata Dal
 - (d) Samajwadi Janata Party
11. The longest river in Asia is
 - (a) river Indus
 - (b) river Yangtze
 - (c) river Hwang Ho
 - (d) river Ganga
12. The split between the 'Extremists' and 'Moderates' came up in the open at the Surat Congress Session in the year
 - (a) 1905
 - (b) 1906
 - (c) 1907
 - (d) 1910
13. Humayun had to run away from India after he was defeated in the battle of
 - (a) Panipat
 - (b) Gogra
 - (c) Khanwa
 - (d) Kannauj
14. The highest grade and best quality coal is
 - (a) lignite
 - (b) peat
 - (c) bituminous
 - (d) anthracite
15. IBRD is also known as
 - (a) International Bank
 - (b) World Bank
 - (c) Asian Development Bank
 - (d) Bank of America
16. In May, 2016, Rodrigo Duterte was elected as the President of which country?
 - (a) Thailand
 - (b) Switzerland
 - (c) Mexico
 - (d) Philippines
17. The resources which can be used continuously, year-after are called
 - (a) biotic
 - (b) abiotic
 - (c) non-renewable
 - (d) renewable
18. Which among the following is the fundamental quantity?
 - (a) Volume
 - (b) Time
 - (c) Velocity
 - (d) Force
19. Which country launched the world's first satellite dedicated to monitoring Greenhouse gas emission in 2009?
 - (a) Japan
 - (b) Brazil
 - (c) India
 - (d) USA

20. Who among the following was elected as the Chairman of world's biggest commercial organisation the International Chamber of Commerce in June 2016?
- (a) Mukesh Ambani
 - (b) Adi Godrej
 - (c) Lakshmi Narain Mittal
 - (d) Sunil Bharti Mittal
21. The 'Goods and Services Tax' was proposed by a task force whose President was
- (a) Vijay Kelkar
 - (b) Montek Singh Ahluwalia
 - (c) Arun Jaitley
 - (d) Narsimham
22. These waves cannot be transmitted through vacuum
- (a) light
 - (b) sound
 - (c) heat
 - (d) electromagnetic
23. In which of the following countries, a woman became the president for the first time in May, 2016?
- (a) Taiwan
 - (b) Myanmar
 - (c) Angola
 - (d) Namibia
24. A passenger standing in a bus is thrown outward when the bus takes a sudden turn. This happens due to
- (a) outward pull on him
 - (b) inertia of motion
 - (c) change in momentum
 - (d) change in acceleration
25. USB refers to
- (a) a storage device
 - (b) a processor
 - (c) a port type
 - (d) a serial bus standard
26. In which post was the former Police Commissioner of Delhi, BS Bassi appointed in May, 2016?
- (a) The Chairman of Union Public Service Commission
 - (b) The Governor of Meghalaya
 - (c) The Director General of Border Security Force
 - (d) The Member of Union Public Service Commission
27. Which of the following is a better measurement of economic development?
- (a) GDP
 - (b) Disposable income
 - (c) NNP
 - (d) Per capita income
28. Who, out of the following, was the first recipient of Bharat Ratna Award?
- (a) BC Roy
 - (b) S Chandrasekhar
 - (c) CV Raman
 - (d) Gobind Ballabh Pant
29. Who administered the oath of the Chief Minister of West Bengal to Mamata Banerjee on May 27, 2016?
- (a) Ram Naik
 - (b) Keshari Nath Tripathi
 - (c) TS Thakur
 - (d) P. Sathasivam
30. In which of the following State, Bharatiya Janata Party formed government for the first time in 2016?
- (a) Assam
 - (b) Rajasthan
 - (c) Kerala
 - (d) Odisha

SECTION B ANALYTICAL & LOGICAL REASONING

31. Find the approximate value : $\sqrt{10000} + \frac{3.001}{4.987}$ of $1891.992 = ?$
 (a) 2500 (b) 1230
 (c) 1640 (d) 1525
32. The sum of the digits of a three-digit number is 16 . If the ten's digit of the number is three times the unit's digit and the unit's digit is one-fourth of the hundredth digit, then what is the number?
 (a) 446 (b) 561
 (c) 682 (d) 862
33. In a certain code language ' 123 ' stands for 'I am servant', '279' stands for 'servant always miserable', and '684' stands for 'poverty is curse'. Then, 'miserable' stands for which numeric?
 (a) 2 (b) 7
 (c) 9 (d) Cannot be determined
- Direction (Q.34- Q.36):** Find the missing number in the series given below.
34. 3, 22, ? 673, 2696, 8093
 (a) 133 (b) 155
 (c) 156 (d) 134
35. 2, 8, 18, 32, 50, ?
 (a) 64 (b) 72
 (c) 70 (d) 68
36. 2, 29, 38, 47, ?
 (a) 59 (b) 56
 (c) 52 (d) 58
- Direction (Q.37- Q.39):** Study the following information to answer the given questions.
 P, Q, R, S, T, V, X and Y are seated in a straight line facing North. P sits fourth to the left of V. V sits either sixth from the left end of the line or fourth from the right end of the line. S sits second to right of R. R is not an immediate neighbour of V. T and Q are immediate neighbours of each other but neither T nor Q sits at extreme ends of the line. Only one person sits between T and X . X does sit at the extreme end of the line.
37. What is the position of Q with respect to P ?
 (a) Fifth to the right
 (b) Immediate neighbour
 (c) Second to the right
 (d) Third to the left
38. Which of the following represents persons seated at the two extreme ends of the line?
 (a) P, V (b) Y, S
 (c) R, V (d) R, Y
39. How many persons are seated between R and T ?
 (a) One (b) Two
 (c) Three (d) Four
40. $\left\{ 7\frac{1}{2} + \frac{1}{2} \div \frac{1}{2} \text{ of } \frac{1}{4} - \frac{2}{5} \times 2\frac{1}{3} \div 1\frac{7}{8} \text{ of } \left(1\frac{2}{5} - 1\frac{1}{3} \right) \right\} = ?$
 (a) $3\frac{1}{5}$ (b) $2\frac{1}{24}$
 (c) $4\frac{1}{30}$ (d) None of these
41. A person travels from X to the Y at a speed of 40 kmph and returns by increasing his speed by 50%. What is his average speed for both the trips?
 (a) 36 kmph (b) 45 kmph
 (c) 48 kmph (d) 50 kmph
42. How many M's occur in the following series such that it is preceded by W and followed by V ?
 X U V M R S T M W N V M W O P M W U V M W A C W
 M V H P N V W M W T U N
 (a) 3 (b) 2
 (c) 1 (d) 5
43. In a class, the number of girls is one less than the number of the boys. If the product of the number of boys and that of girls is 272 , then the number of girls in the class is
 (a) 15 (b) 14
 (c) 16 (d) 17
44. In the given figure, $AB \parallel CD$. Then, X is equal to



- (a) 290° (b) 300°
 (c) 280° (d) 285°

45. If John celebrated his victory day on Tuesday, January 5, 1965, when will he celebrate his next victory day on the same day?
 (a) January 5, 1970 (b) January 5, 1971
 (c) January 5, 1973 (d) January 5, 1974

Direction (Q.46- Q.48): Read the following information carefully and answer the questions that follow.

Seven friends A, B, C, D, E, F and G are sitting around a circular table facing either the centre or outside. Each one of them belongs to a different department viz. Finance, Marketing, Sales, HR, Corporate Finance, Investment Banking and Operations but not necessarily in the same order.

C sits third to the right of G . G faces the centre. Only one person sits between C and the person working in the HR department. Immediate neighbours of C face outside. Only

one person sits between F and D . Both F and D face the centre. F works in the HR department. A works in the investment B banking department. A faces the centre. Two people sit between the persons, who work in investment, banking and marketing departments. The person, who works in corporate finance sits to the immediate left of E . C faces same direction as E . The person, who works for sales department sits to the immediate left of the person, who works for operations department.

46. For which of the following departments does B work?

- (a) Finance (b) Marketing
(c) HR (d) Corporate Finance

47. What is position of B with respect to the person, who works for sales department?

- (a) Immediate right (b) Third to the left
(c) Second to the right (d) Second to the left

- 48.** Who sits to the immediate right of ?
(a) The person who works for marketing department
(b) C
(c) B
(d) The person who works for HR department

Direction (Q.49-Q.51): In each of the following questions. Choose the missing terms out of the given alternatives.

49.

29			38			55		
16	13		21	17		30	25	
27	9	33	35	16	43	?	?	?

- (a) 65, 36, 63 (b) 53, 24, 63
(c) 49, 32, 53 (d) 51, 25, 61

50.

	F		I	
D	21	18	K	
	23		16	
6			13	
U	8	?	N	
	S		?	

- (a) 9, R (b) 11, P
(c) 13, Q (d) 10, V

51.

2	9	11	7
8	5	13	-3
7	?	10	-4
6	4	10	?

- (a) 3 and (-2) (b) (-3) and (-2)
(c) 3 and 2 (d) (-3) and 2

52. After 9 o' clock at what time between 9 p.m. and 10 p.m. will the hour and minute hands of a clock point in opposite direction?

- (a) 15 min past 9 (b) 16 min past 9
(c) $16\frac{4}{11}$ min past 9 (d) $17\frac{1}{11}$ min past 9

53. Simplify $\frac{2\frac{1}{7}-2\frac{1}{2}}{2\frac{1}{4}+1\frac{1}{7}} \div \frac{1}{2+\frac{1}{2+\frac{1}{2-\frac{1}{2}}}}$

- (a) $-\frac{1}{2}$
(b) $-\frac{1}{8}$
(c) $-\frac{1}{6}$
(d) $-\frac{1}{4}$

Direction (Q.54-Q.55): Study the given information carefully and answer the given questions.

A is the mother of B. B is the sister of C. D is the son of C. E is the brother of D. F is the mother of E. G is the granddaughter of A. H has only two children B and C.

54. How is F related to H ?

- (a) Son-in-law (b) Daughter-in-law
(c) Father-in-law (d) Granddaughter

55. How is C related to E ?

- (a) Father (b) Son
(c) Mother (d) Cousin

56. In the given series, only one number is wrong. Find out the wrong number

2,3,6,15,37.5,157.5,630

- (a) 3 (b) 6
(c) 15 (d) 37.5

Direction (Q.57-Q.60): Study the following information carefully and answer the given questions. A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input 'sale data 18 23 for 95 then 38'

Step I data sale 18 23 for 95 then 38

Step II data 95 sale 18 23 for then 38

Step III data 95 for sale 18 23 then 38

Step IV data 95 for 38 sale 18 23 then

Step V data 95 for 38 sale 23 18 then

Step VI data 95 for 38 sale 23 then 18

and step VI is the last step of the rearrangement of the above input.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

57. Input 'year 39 stake 47 house full 9455'. How many steps will be required to complete the rearrangement?

- (a) Five (b) Six
(c) Four (d) Seven

58. Step II of an input is 'car 83 lost ever 324674 now'. How many more steps will be required to complete the rearrangement?

- (a) Three (b) Four
(c) Five (d) Six

59. Step III of an input is 'and 79 code 2718 new goal 34'. Which of the following will definitely be the input?

- (a) code and 792718 new goal 34
(b) code 2718 new goal 34 and 79
(c) code 27 and 1879 new goal 34
(d) cannot be determined

60. Input 'water full never 357816 height 28'. Which of the following steps will be the last?

- (a) VI (b) VII
(c) VIII (d) IX

61. In a class of 50 students, 23 speak English, 15 speak Hindi and 18 speak Punjabi. 3 speak only English and Hindi, 6 speak only Hindi and Punjabi and 6 speak only English and Punjabi. If 9 can speak only English, then how many students speak all the three languages?

- (a) 1 (b) 2
(c) 3 (d) 5

62. If in a certain code language 'TROUP' is written as 'VPQSR', then how will SIGHT be written in that

- (a) UGVIF (b) UIGVF
(c) UGIVF (d) UGIFV

63. **Statement** Researchers are feeling agitated as libraries are not well equipped to provide the right information to the right users at the right time in the required format. Even the users are not aware about the various services available for them.

Courses of Action

I. All the information available in the libraries should be computerised to provide faster services to the users.

II. Library staff should be trained in computer operations.

- (a) None follows (b) Only II follows
(c) Both I and II follow (d) All follow

Direction (Q.64-Q.66): Read the following passage and answer the questions that follow.

In an engineering college, five students from five different cities were elected as Secretaries by the students to perform different student activities. Each student studies in a different branch of engineering. Additionally, the following information is provided.

I. Abhishek does not stay in the Aravalli hostel, where the student from Nagpur stays.

II. The student, whose name is not Abhishek and does not study in Metallurgy, stays in Satpura hostel. He is the only student among the five to stay at Satpura hostel.

- III. Hardeep neither belongs to Jodhpur nor does he study Mechanical Engineering.
 IV. The student-in-charge of Cultural Activity stays in the Aravalli hostel where Civil Engineering student does not stay.
 V. Sanjay and the student, who studies Metallurgy, both stay in the same hostel.
 VI. The student who belong to Allahabad does not stay with the student-in-charge of the Sports activity staying at Aravalli hostel.
 VII. Sanjay is not the student-in-charge of the Cultural activity.
 VIII. Ravi, the student-in-charge of Mess activity, stays at Satpura hostel.
 IX. The student from Patna and the student, who studies Mechanical Engineering, both stay at Aravalli hostel. They are the only two among the five students to stay at this hostel.
 X. The student, who stays at Satpura hostel, studies Computer Sciences.
 XI. Hemant, who does not belong to Kochi, studies Chemical Engineering. He is not the General Secretary of the Student Body.
 XII. Sanjay does not belong to Allahabad.
 XIII. The student from Kochi and the student-in-charge of Placement activity, both stay at the Vindhya Hostel.

64. Which of the following statements is/are incorrect?

- I. The Chemical Engineering student and the student-in-charge of Cultural activity, both stay in the same hostel.
 II. The student-in-charge of Placement activity is studying Metallurgy.
 III. The student who belongs to Nagpur is the student-in-charge of Sport's activity.
 IV. Ravi belongs to Jodhpur.
 (a) Only I (b) I and II
 (c) I, II and III (d) None of these

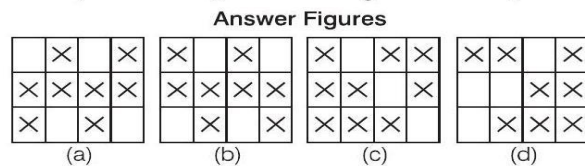
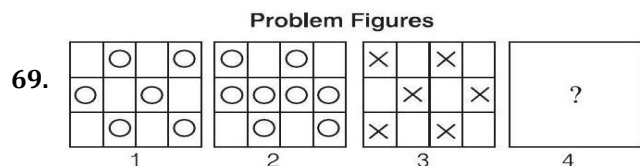
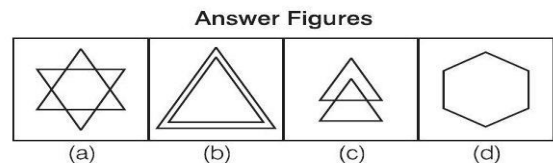
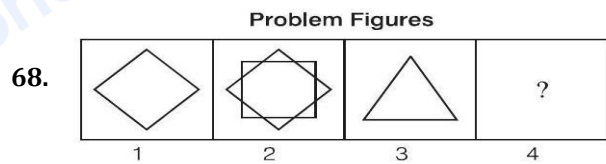
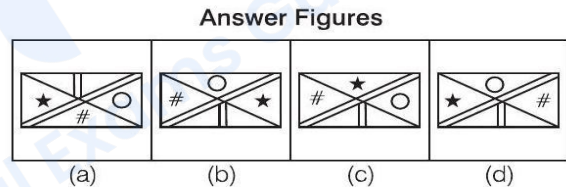
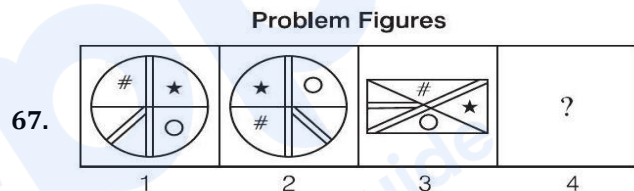
65. Which of the following statements is/are correct?

- I. Sanjay and Abhishek stay at the same hostel.
 II. The General Secretary of the student Body studies Mechanical Engineering.
 III. The student who belongs to Patna is studying Metallurgy.
 IV. The student who belongs to Kochi is studying Computer Science.
 (a) Only I (b) Only II
 (c) Only III (d) None of these

66. The student who belongs to Allahabad is studying in

- (a) Metallurgy
 (b) Mechanical Engineering
 (c) Civil Engineering
 (d) None of the above

Direction (Q.37-Q.39): The second figure in the first part of the problem figures bears a certain relationship to the first figure. Similarly, one of the figures in answer figures bears the same relationship to the first figure in the second part. You have to select the figure from the set of answer figures which would replace the sign of question mark (?).



Direction (Q.70): In the question below is given a statement followed by two conclusion numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement.

Give answer

- (a) if only conclusion I follows
- (b) if only conclusion II follows
- (c) if neither conclusion I nor II follows
- (d) if both conclusion I and II follows

70. Statement From the next academic year, students will have the option of dropping Mathematics and Science for their school leaving certificate examination.

Conclusions

- I. Students, who are weak in Science and Mathematics, will be benefitted.
- II. Earlier students did not have the choice of continuing their education without taking these subjects.

SECTION C

GENERAL ENGLISH

71. "To make clean breast of" means. ____
 (a) To gain prominence
 (b) To praise oneself
 (c) To confess without being reserve
 (d) To destroy before it blooms
72. Fate smiles ____ those who untiringly grapple with stark realities of life.
 (a) with (b) over
 (c) on (d) round
73. "Life is like a game where we are the players" is a-
 (a) Simile (b) Metaphor
 (c) Assonance (d) Alliteration
74. "All the world's a stage and all the men and women merely players; They have their exits and their entrances;" is a-
 (a) Simile (b) Metaphor
 (c) Personification (d) Pun
75. "Death lays its icy hands on kings" is a-
 (a) Simile (b) Metaphor
 (c) Personification (d) Alliteration
76. Shepherd is a word of German origin. This word can also be replaced by which of the following?
 (a) Sceaphierde (b) Herder
 (c) Sheepish (d) None of the above
77. Cotton is a word of English origin. Which of the following can replace this word?
 (a) Cotone (b) Cottony
 (c) Coutons (d) None of the above
78. Plural of 'Formula' is
 (a) Formulas (b) Formulaes
 (c) Formulae (d) None of the above
79. The 'accommodation' in British English is known as ____ in American english.
 (a) Accommodations (b) Acomodation
 (c) Accommodatione (d) Acommodatione
80. The 'aeroplane' in British English is known as ____ in American english.
 (a) Aeroplain (b) Aerroplane
 (c) Airplane (d) Aeroplanee
81. The 'bank holiday' in British English is known as ____ in American english.
 (a) holiday (b) legal holiday
 (c) vacation (d) leave
- Direction (Q.82-Q.84):** Complete the collocation words.
82. My grandfather was a ____ smoker, so few people were surprised when he died of oral cancer.
 (a) serial (b) heavy
 (c) big (d) continuous
83. She was a/an ____ wife who loved her husband more than anything else in the whole universe.
 (a) devoted (b) sincere
 (c) intelligent (d) cool
84. I always avoid his company because he is a crashing ____
 (a) bore (b) nuisance
 (c) guy (d) sound
85. Idiom "To keeps one's temper" means. ____
 (a) To become hungry
 (b) To be in good mood
 (c) To preserve ones energy
 (d) To be aloof from
86. Idiom "To catch a tartar" means ____
 (a) To trap wanted criminal with great difficulty
 (b) To catch a dangerous person
 (c) To meet with disaster
 (d) To deal with a person who is more than one's match
87. Choose the correct option:-
 (a) You don't need to come unless you want to
 (b) You come only when you want to
 (c) You come unless you don't want to
 (d) You needn't come until you don't want to
88. Choose the correct option:-
 (a) This is one of the most important inventions of this century.
 (b) This is one of the most important invention of this century.
 (c) This is one of the most important invention of these century.
 (d) This is one of the most important invention of centuries.
- Direction (Q.89-Q.91):** 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 letter of that part is the answer. If there is no error, the answer is 'D'. (Ignore the errors of punctuation, if any).

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89. (a) We discussed about the problem so thoroughly
(b) on the eve of the examination
(c) that I found it very easy to work it out
(d) No error
90. (a) An Indian ship
(b) laden with merchandise
- (c) got drowned in the Pacific Ocean
(d) No error
91. (a) I could not put up in a hotel
(b) because the boarding and lodging charges
(c) were exorbitant
(d) No error

Direction (Q.92-Q.97): Read the following passage carefully and answer the questions given below it. Certain words are given in bold to help you locate them while answering some of the questions.

With Finance Commission recommendations, centre-state relations set to undergo dramatic change. Any big change requires big ideas, decisive leadership and happy coincidence of circumstances. Nothing illustrates this better than the unfolding story of cooperative federalism in India.

As Chief Minister of Gujarat, Narendra Modi had often argued that the central government implemented schemes were at odds with the state's needs and priorities. For example, schemes that provided funds for electrification were at best of limited value to Gujarat since it had already achieved near 100% electrification. This state could have spent the money provided for such a scheme more productively if allowed to use it for other purposes.

In advancing this view, Modi was joined by other Chief Ministers such as Vasundhara Raje of Rajasthan who argued that the vast numbers of central schemes further restricted their fiscal space because many of them required matching contributions by them from their otherwise untied funds. Once these matching funds were committed to access central schemes, states were left with very limited funds for even the most important expenditure items such as enforcement of law and order.

Nevertheless, this system has remained entrenched in one form or another in the last several decades on account of coincidence of three factors. First, outside of state leaders and a few economists and policy analysts, advocates of the view that true federalism means giving greater fiscal space to states and trusting them in setting their own priorities have been few and far between.

Second, the Finance Commission appointed once every five years plays a key role in the division of tax revenues between centre and states. Consistent with the first point, successive Finance Commissions held untied funds to the states at or below 30% of the divisible tax pool. Only the 13th Finance Commission exceeded this mark, setting states share at 32%. Finally, successive central governments have chosen to transfer the bulk of the remaining funds to the states via central and centrally sponsored schemes. With nearly 8% growth over an entire decade, tax revenues have significantly expanded. Alongside, central and centrally sponsored schemes and the revenue resources they absorb have expanded dramatically as well.

Two key factors have come together to dramatically alter this equilibrium. One, India now has a prime minister who was once a chief minister and strongly feels that cooperative federalism means greater fiscal and legislative space for states. And two, by a happy coincidence, the chairman and members of the 14th Finance Commission believe in genuine federalism themselves.

Moreover, they have recognised the opportunity offered by a Prime Minister at the helm who truly believes in the power

of states and their leaders. Accordingly, they have recommended that starting 2015-16, states be awarded 42% of the divisible pool of tax revenues. This is a gigantic and unprecedented 10% jump in devolution. Predictably, the Prime Minister and his Cabinet have accepted this bold recommendation of the 14th Finance Commission. What implications does this change have? For starters, with larger transfers coming as untied funds, states also have greater responsibility in discharging their duties. It is likely that they will now have to take greater responsibility in areas that have been

hitherto covered by the Centre, especially those falling on the state list. States will also have to do this in ways that are more consistent with their priorities and not according to "one size fits all" schemes. By the same token, with a lower share in the divisible pool the centre's fiscal space will shrink, requiring a rethink of central and centrally sponsored schemes.

One might ask where does Niti Aayog fit into this story? I am tempted to say that in replacing the Planning Commission by Niti Aayog, Prime Minister Narendra Modi may have anticipated the 14th Finance Commission. Under the previous regime, the centre was often seen as 'giver' and states as 'recipients' thereby making the latter feel that they were less than equal partners. In replacing the Planning Commission by Niti Aayog, the Prime Minister sought to change that equation and forge an equal relationship between the two sides. As such this change represents a step towards cooperative federalism.

We will have a more complete picture of the emerging centre-state relations, when the finance minister presents the budget. But even with what we now know, one thing is clear: in the years to come, Niti Aayog will have to play a much greater role in the knowledge space. Greater fiscal freedom combined with greater legislative freedom in the areas covered by the concurrent list of the Constitution means that states will need to play a more active role in designing their own programmes and policies.

As they do so, they will need to reach out to data, analysis and expert advice. The design of Niti Aayog as per the Cabinet Note of 1 January 2015 positions it well to provide these services. By the same token, those of us at Niti Aayog have to work hard in the months to come to build new strengths so that we do not disappoint the states that reach out to us for advice and assistance. We shall see.

- 92.** As the Chief Minister of Gujarat, why Narendra Modi argued that the Central Government implemented schemes are at odds for the state government?
- Because the Central Government was not paying the equal amount of funds for all the states.
 - Because, he being from the opposition, want to criticise the steps taken by the Central Government and leave an impression on the general public mind that what a crook central government is.
 - Because Central Government doesn't take in the picture all the perspective while allocating the funds.
 - Because he wanted more funds for filling his and his cabinet minister's pocket.
- 93.** Why Vasundhara Raje decided to join the views of Narendra Modi?
- Being from the same party, she had no choice but to join hand in hand with her party leader.
 - Vasundhara Raje and Narendra Modi had a hidden plan of going against any of the good initiatives taken by the Central Government.
 - Vasundhara Raje was also facing the atrocities of Central Government and want to raise her voice with Narendra Modi.
 - Vasundhara Raje, being a Chief Minister of a state of India, where central schemes are restricted, the fiscal space of the state government, feels that it is injustice on the part of Central Government.
- 94.** The writer referred the PM's view of cooperative federalism, what do you understand by cooperative federalism?
- It means a more prominent role for the Centre, than states.
 - It means the competitiveness between the Centre and the state.
 - It means more competitiveness among states
 - It means a sync in relation among the states and the centre.
- 95.** What does writer meant by "one size fits all" schemes?
- NITI Ayog will make schemes that would be equally beneficial for all.
 - Previously, the schemes were more transparent and object oriented.
 - Planning Commission were making schemes without considering the crucial scenario in the states.
 - Planning Commission was making more precise schemes, so as to address the actual needs of the states.
- 96.** Why the Government did a 10% increase in devolution?
- To transfer the funds in the hands of state.
 - Shed of the extra responsibility of the state sponsored schemes.
 - To make state more self dependent.
 - To increase the extent of authority on states.

97. What is the drastic change in the policy of NITI Ayog from that was in Planning Commission?
- Now states will have equal equation with the centre.
 - States will have more financial freedom
 - Centre has given the responsibility to states to draft every scheme
 - Both 'a' and 'b'

Direction (Q.98-Q.101): Each question consists of two words which have a certain relationship with each other followed by four pairs of related words, Select the pair which has the same relationship.

98. DIVA : OPERA
- producer : theatre
 - director : drama
 - conductor : bus
 - thespian : play
99. GRAIN : SALT
- shard : pottery
 - shred : wood
 - blades : grass
 - chip : glass
100. THRUST : SPEAR
- mangle : iron
 - scabbard : sword
 - bow : arrow
 - fence : epee
101. PAIN : SEDATIVE
- comfort : stimulant
 - grief : consolation
 - trance : narcotic
 - ache : extraction

Direction (Q.32-Q.35): In the following questions choose the word which best expresses the meaning of the given word.

102. BRIEF
- Limited
 - Small

- Little
- Short

103. EMBEZZLE

- Misappropriate
- Balance
- Remunerate
- Clear

104. VENT

- Opening
- Stodge
- End
- Past tense of go

105. AUGUST

- Common
- Ridiculous
- Dignified
- Petty

Direction (Q.36-Q.40): In the following the questions choose the word which best expresses the opposite to the meaning of the given word.

106. ENORMOUS

- Soft
- Average
- Tiny
- Weak

107. COMMISSIONED

- Started
- Closed
- Finished
- Terminated

108. ARTIFICIAL

- Red
- Natural
- Truthful
- Solid

109. EXODUS

- Influx
- Home-coming
- Return
- Restoration

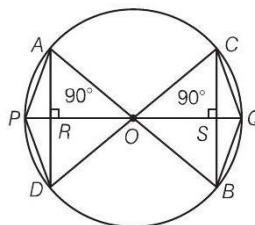
110. RELINQUISH

- Abdicate
- Renounce
- Possess
- Deny

SECTION D

QUANTITATIVE APTITUDE

- 111.** In a 4-digit number, the sum of the first two digits is equal to that of the last two digits. The sum of the first and last digits is equal to the third digit. Finally, the sum of the second and fourth digits is twice the sum of the other two digits. What is the third digit of the number?
- (a) 5 (b) 8
(c) 1 (d) 4
- 112.** A simple mechanical device has four gears A, B, C and D such that they mesh in the order $A - B - C - D$. The number of teeth in these gears are 10, 21, 12, 17, respectively. If we start the mechanism from rest, how many revolutions will the largest gear have to turn before one full cycle is completed and the gears are in the position from where they started?
- (a) 270 (b) 340
(c) 7140 (d) 285
- 113.** If $a = \frac{\sqrt{5}+1}{\sqrt{5}-1}$ and $b = \frac{\sqrt{5}-1}{\sqrt{5}+1}$, then the value of $\left[\frac{a^2+ab+b^2}{a^2-ab+b^2} \right]$ would be
- (a) $\frac{3}{4}$ (b) $\frac{4}{3}$
(c) $\frac{3}{5}$ (d) $\frac{5}{3}$
- 114.** Three shepherds A, B and C rented a pasture for a year. A grazed 22 sheeps for 4 months, B grazed 16 sheeps for 8 months and C grazed 32 sheeps for 6 months. If 's share of rent is ₹ 600, the total rent for the year was
- (a) ₹ 3550 (b) ₹ 200
(c) ₹ 1275 (d) ₹ 675
- 115.** An astronomical clock has its dial divided into 24 divisions instead of 12, and the small hand goes round in 24 h. The large hand goes round once every hour. If 24 th hour is noon, then when are the hands at right angles between 24 and 1?
- (a) $23\frac{2}{15}$ mins past 24 (b) $2\frac{23}{15}$ mins past 24
(c) $15\frac{15}{23}$ mins past 24 (d) $15\frac{11}{23}$ mins past 24
- 116.** The unit digit in the sum $(124)^{372} + (124)^{373}$ is
- (a) 5 (b) 4
(c) 2 (d) 0
- 117.** Find the G.C.D. of the polynomials $36x^2 - 49$ and $6x^2 - 25x + 21$
- (a) $8x - 9$ (b) $9x - 5$
(c) $6x - 7$ (d) None of these
- 118.** Find the unit digit in the product $(4387)^{245} \times (621)^{72}$
- (a) 1 (b) 2
(c) 5 (d) 7
- 119.** The minute and the hour hand of a watch meet every 65 min. How much does the watch lose or gain time?
- (a) 25 sec (b) 27 sec
(c) 27.16 sec (d) 30 sec
- 120.** How much Pepsi at ₹ 6 a L is added to 15 L of 'dew' at ₹ 10 a L, so that the price of the mixture be ₹ 9 a L?
- (a) 5 (b) 8
(c) 10 (d) None of these
- 121.** In a village three people contested for the post of village pradhan. Due to their own interest, all the voters voted and no vote was invalid. The losing candidate got 30% votes. What could be the minimum absolute margin of votes by which the winning candidate led by the nearest rival, if each candidate got an integral per cent of votes?
- (a) 4 (b) 2
(c) 1 (d) None of these
- 122.** The sum of first three terms of a GP is to the sum of the first six terms is 125 : 152. Find the common ratio of the GP.
- (a) $\frac{3}{5}$ (b) 3
(c) $\frac{2}{5}$ (d) $\frac{5}{8}$
- 123.** In the adjoining figure O is the centre of the circle. $\angle AOD = 120^\circ$. If the radius of the circle be ' r ', then find the sum of the areas of quadrilaterals $AODP$ and $OBQC$.



- (a) $\frac{\sqrt{3}}{2}r^2$ (b) $3\sqrt{3}r^2$
(c) $\sqrt{3}r^2$ (d) None of these

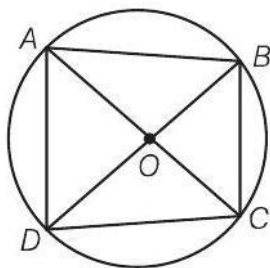
124. An AP whose first term is unity and in which the sum of the first half of any even number of terms to that of the second half of the same number of terms is in constant ratio, the common different 'd' is given by
(a) 1 (b) 2
(c) 3 (d) 4

125. Find the number of four digit number that are divisible by 30 and 35 but not by 140 .
(a) 21 (b) 22
(c) 43 (d) 44

126. A covers $\frac{1}{4}$ th of his journey at 20 km/h and $\frac{1}{3}$ rd of the rest at 25 km/h and half of the rest at 30 km/h and rest at the speed of 40 km/h. What is the average speed of ?
(a) $13\frac{78}{89}$ km/h (b) 12 km/h
(c) $26\frac{86}{89}$ km/h (d) 28 km/h

127. Abhinav leaves Mumbai at 6 am and reaches Bangalore at 10 am. Praveen leaves Bangalore at 8 am and reaches Mumbai at 11:30 am. At what time do they cross each other?
(a) 10 am (b) 8:32 am
(c) 8:56 am (d) 9:20 am

128. In the given figure $ABCD$ is a cyclic quadrilateral $DO = 8$ cm and $CO = 4$ cm. AC is the angle bisector of $\angle BAD$. The length of AD is equal to the length of AB . DB intersects diagonal AC at O , then what is the length of the diagonal AC ?



- (a) 20 cm (b) 24 cm
(c) 16 cm (d) None of these
129. A stamp collector likes to arrange and rearrange his collection in a symmetrical order. Sometimes he lines his stamps up in pairs, sometimes in threes, sometimes in fours, occasionally in fives, and once in a while in groups of six. After arranging them in any of these groups, he invariably has one stamp left over. When he arranges his stamps in groups of seven, he finds that there is not a single stamp to

spare. How many stamps will be left over if he arranges them in groups of 8 ?

- (a) 5 (b) 4
(c) 6 (d) 7

130. A can do a piece of work in 10 days, B can do it in 12 days and C can do it in 15 days. In how many days they can complete the work, working together?
(a) 6 (b) 4
(c) 5 (d) 10

131. A balance of a trader weighs 10% less than it should be. Still the trader marks-up his goods to get the overall profit of 20%.
What is the markup on the cost price?
(a) 40% (b) 8%
(c) 25% (d) 16.66%

132. If a, b, c be respectively the sum of first p, q, r terms of an AP, then
 $\frac{a}{p}(q-r) + \frac{b}{q}(r-p) + \frac{c}{r}(p-q)$ equal
(a) pqr (b) $ap + bq + cr$
(c) 0 (d) $p + q + r$

Direction (Q.133-Q.134): A survey that 41%, 35% and 60% of the people read "Times of India", "Hindustan Times" and "Deccan Herald" respectively. 27% people read exactly two of the three newspapers and 3% read none.

133. What percentage of people read all the three newspaper?
(a) 40% (b) 6%
(c) 9% (d) 12%

134. If another survey indicates that 16% of the people read Times of India and Deccan Herald, and 14% read Hindustan Times and Deccan Herald, then what percentage of the people read only Hindustan Times (Use the data from the previous question, if necessary)
(a) 10% (b) 8%
(c) 12% (d) 15%

135. Three circles touch each other externally. The distance between their centre is 5 cm, 6 cm and 7 cm . Find the radii of the circles.
(a) 2 cm, 3 cm, 4 cm (b) 3 cm, 4 cm, 1 cm
(c) 1 cm, 2.5 cm, 3.5 cm (d) 1 cm, 2 cm, 4 cm

136. If a, b, c be the p th, q th and r th terms of an AP. Then, $p(b-c) + q(c-a) + r(a-b)$ equals to
(a) 0 (b) 1
(c) 3 (d) $\frac{abc}{pqr}$

137. A company instead of raising the mark up by 20% discounted the cost price by 20% while stitching the price tag on its project. Further the company offers a discount of 6.25% to its customer. In this process company incurs a loss of ₹ 37.5 on a single article. What is the selling price of that article?

- (a) 417.5 (b) 112.5
(c) 365.5 (d) None of these

138. If $(5x^2 + 14x + 2)^2 - (4x^2 - 5x + 7)^2$ is divided by $(x^2 + x + 1)$ then, quotient 'q' and remainder 'r' are given by

- (a) $q = (x^2 + 19x), r = 0$
(b) $q = 9(x^2 + 19x - 5), r = 0$

- (c) $q = (x^2 + 19x - 5), r = 1$
(d) $q = 9(x^2 + 19x - 5), r = 1$

139. If $\log_{10} x^2 - \log_{10} \sqrt{y} = 1$, find the value of y, when $x = 2$

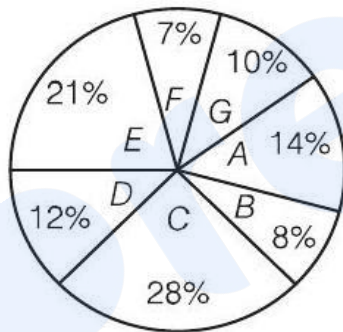
- (a) $\frac{2}{9}$ (b) $\frac{4}{25}$
(c) $\frac{25}{4}$ (d) $\frac{4}{9}$

140. Let a function is defined as $f(x) = \frac{a^x + a^{-x}}{2}; a > 0$, what is the value of $f(x+y) + f(x-y)$?

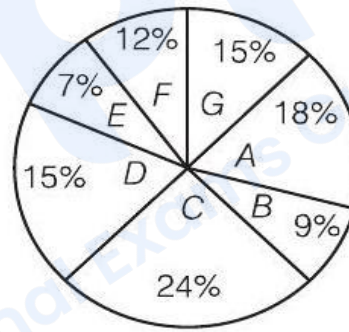
- (a) $f(x) + f(y)$ (b) $f(x)f(y)$
(c) $2f(x)f(y)$ (d) $4f(x)f(y)$

Direction (Q.141-Q.143): These questions are based on the following pie-charts' informations.

Classification of appeared candidates in a competitive test from different institutes and qualified candidates from those institutes.



Appared candidates = 56000



Qualified = 12000

141. What is the difference between the number of qualified candidates of institute 'C' and those of 'E'?

- (a) 2040 (b) 2140
(c) 2144 (d) 2120

142. What is the average number of appeared candidates from institutes A, E and G together?

- (a) 25200 (b) 12600

- (c) 8400 (d) 8600

143. What is the percentage of qualified candidates from institutes 'A' and 'C' taken together? (rounded to two decimal places)

- (a) 21.32 (b) 22.42
(c) 22.32 (d) 21.42

Direction (Q.144-Q.146): Study the following table carefully to answer the questions given below it.

Terrorists killed in Poonch district in J & K over the years 2014 to 2016

Year	Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
2014	On LoC	6	1	0	3	26	22	18	6
	In Depth	9	21	22	21	22	52	42	14
2015	On LoC	7	9	0	6	12	4	8	10
	In Depth	28	17	16	35	21	20	12	21
2016	On LoC	5	14	2	4	8	8	0	10
	In Depth	9	6	7	34	16	16	9	7

- 144.** What is the difference between the average number of terrorists killed on 'LoC' in 2015 and average number of terrorists killed in 'Depth' location in 2016? (only for the given months)
- (a) 6 (b) 7
(c) 5 (d) 15
- 145.** Approximately, what is the ratio between total killings in 'In depth' location in 2015 and killings on 'LoC' in that year?
- (a) 7:2 (b) 3:1
(c) 17:8 (d) 9:4
- 146.** Which of the following month-and-year combination has seen maximum terrorist killings?
- (a) May 2015 (b) May 2014
(c) April 2016 (d) June 2014
- 147.** If $\left| \frac{30-x}{5} \right| < 4$, then find x
- (a) $< 6 < x < 6$ (b) $10 < x < 50$
(c) $x > 10$ (d) None of these
- 148.** The least number which when divided by 12, 16 and 18 leaves 5 as remainder in each case. Find the number.
- (a) 139 (b) 144
(c) 149 (d) 154
- 149.** If area of regular pentagon is $125\sqrt{3}$ cm, how long is its each side?
- (a) 10 cm (b) 15 cm
(c) 16 cm (d) 25 cm
- 150.** The first 100 multiples of 10 are multiplied together. How many zeros will be there at the end of the product?
- (a) 100 (b) 24
(c) 124 (d) 125