

भारतीय प्रबंध संस्थान, कोषिक्कोड

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Quantitative Aptitude

1. What least number must be added to 1056, so that the sum is completely divisible by 23?

	В.	3				
	C.	18				
	D.	21				
2.	The	e sum of two numbers is 216 and their H.C.F is 27. The numbers are;				
		81, 189				
	B.	27,189				
	C.	108, 108				
	D.	154, 81				
3.	The	e average age of 50 teachers of a school is 66 years and the average age of 60 teachers of				
	and	other school is 55 years. What will be average age of teachers of both the schools together?				
	A.	60 years				
	В.	57.5 years				
	C.	65 years				
	D.	62.5 years				
4.	The	e market price of an article is Rs. 640. A trader earns 20% profit when he sells it at a discount				
т.	of 40% on its market price. The cost price of the article is:					
	A.	Rs. 360				
	А. В.	Rs. 320				
	D.	NS. 32U				

- 5. A alone can complete a work in 6 days and B alone can complete the same work in 8 days. In how many days both A and B together can complete the same work?
 - A. 48/13 days

C. Rs. 330D. Rs. 350

A. 2

- B. 35/13 days
- C. 24/9 days
- D. 24/7 days
- A man walks from point X to Y at a speed of 20 km/h, but comes back from point Y to X at a speed of 25 km/h. Find his average speed.

A. 22 2/9 km/hr

- B. 24 2/9 km/hr
- C. 23 2/9 km/hr
- D. 25 2/9 km/hr

7.	A sum of money at simple interest amounts to Rs. 815 in 3 years and to Rs. 854 in 4 years. The sum is:
	A. Rs.650
	C. Rs.698
	D. Rs.700
8.	Father is aged three times more than his son Ronit. After 8 years, he would be two and a half
	times of Ronit's age. After further 8 years, how many times would he be of Ronit's age?
	A. 2 times
	B. 3 times
	C. 4 times
	D. 5 times
9.	Two numbers are respectively 20% and 50% more than a third number. The ratio of the two
	numbers is:
	A. 2:5
	B. 3:5
	C. 4:5
	D. 6:7
10.	From a group of 7 men and 6 women, five persons are to be selected to form a committee so
	that at least 3 men are there on the committee. In how many ways can it be done?
	A. 564
	B. 645
	C. 735
	D. 756
	D. 750
11	Two students appeared at an examination. One of them secured 9 marks more than the other
11.	and his marks was 56% of the sum of their marks. The marks obtained by them are:
	A. 39, 30
	B. 41, 32
	C. 42, 33
	D. 43,34
12.	A bag contains 2 red, 3 green and 2 blue balls. Two balls are drawn at random. What is the
	probability that none of the balls drawn is blue?
	A. 10/21
	B. 11/21
	C. 2/7
	D. 5/7

13.	A and B invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is: A. Rs.1425 B. Rs.1500 C. Rs.1537 D. Rs.1400
14.	A vessel is filled with liquid, 3 parts of which are water and 5 parts syrup. How much of the mixture must be drawn off and replaced with water so that the mixture may be half water and half syrup? A. 1/3 B. ¼ C. 1/5 D. 1/7
15.	The speed of a boat in still water is 9 km/hr and the speed of stream is 3 km/hr. The difference between the upstream speed and downstream speed will be: A. 6 km/hr B. 5 km/hr C. 3.5 km/hr D. 7.5 km/hr
16.	Two pipes can fill a tank in 15 hours and 4 hours, respectively, while a third pipe can empty it in 12 hours. How long (in hours) will it take to fill the empty tank if all the three pipes are opened simultaneously? A. 30/7 B. 20/7 C. 50/7 D. 15/7
17.	If the length of the diagonal of a square is 10V2 cm, then what will be area of the square? A. 200 cm square B. 100 cm square C. 150 cm square D. 50 cm square
18.	30th term of the Arithmetic progression 10, 7, 4,, is A. 97 B. 77 C77 D87

 19. A candidate who scores 30% fails by 5 marks, while another candidate who scores 40% marks gets 10 more than minimum passing marks. The minimum marks required to pass are: A. 50 B. 100 C. 45 D. 150 20. What is the compound interest on Rs. 2500 for 2 years at rate of interest 4% per annum? A. Rs. 180 B. Rs. 204 C. Rs. 210 D. Rs. 220
D. 113. 220
Logical Reasoning and Data Interpretation
21. Find the next two numbers in the series, 16, 20, 46, 24, 28, 56, 32
A. 36, 66
B. 66, 36
C. 34, 62 D. 62, 34
5. 62,51
22. Find the uniquinal letters in the series DOD (ONIX) HIG. FED.
22. Find the missing letters in the series. RQP, ONM, _, IHG, FED. A. CDE
B. LKI
C. LKJ
D. BAC
23. Select the option that is related to the third word in the same way as the second word is
related to the first word.
Rat: Plague:: Dogs: ?
Nat. Hague Dogs.
A. Dengue
B. Malaria
C. Tetanus
D. Rabies
24. Select the option in which the two numbers share the same relationship as that shared by the
given number-pair.
14:45
A. 99:63
B. 26:80
C. 15:44
D. 17:54

25. Select the option that is related to the third word in the same way as the second word is related to the first word.

Bats: Screech:: Kangaroos:?

- A. Chatter
- B. Snort
- C. Chortle
- D. Whoop
- 26. Find the cause-and-effect relationship between the following two statements.

Statement I: All the colleges in the city had to keep closed for three days a week. Statement II: Many students have left the local colleges.

- A. Statement II is the cause and statement I is its effect
- B. Statement I is the cause and statement II is its effect
- C. Both the statements are effects of independent causes
- D. Both the statements are independent causes
- 27. Pointing to a photograph, a man said, "I have no brother, and that man's father is my father's son." Whose photograph was it?
 - A. His son
 - B. His own
 - C. His father
 - D. His nephew
- 28. Manoj covered a distance of 50 m towards the North. He then turned to his left and walked 20 m. He again turned left and walked 60m. Finally, he turned to his right at an angle of 45°. In which direction is he moving finally?
 - A. South-East
 - **B.** South-West
 - C. North-West
 - D. North-East
- 29. How many brothers does Rahul have?
 - Rahul's father has three children.
 - II. Rahul has one sister.
 - A. Statement II alone is sufficient, but statement I alone is not sufficient
 - B. Either I or II is sufficient
 - C. Data in both the statements together are not sufficient
 - D. Both I and II are needed
- 30. If in a certain language, NOIDA is coded as OPJEB, how is DELHI coded in that language?
 - A. CDKGH
 - B. EFMIJ
 - C. FGNJK
 - D. IHLED

- 31. Assertion (A): Copper is more expensive than silver. Reason (R): Copper is a good conductor of electricity.
 - A. Both A and R are true and R is the correct explanation of A.
 - B. Both A and R are true, but R is not the correct explanation of A.
 - C. A is true, but R is false.
 - D. A is false, but R is true.

32. Statements:

- I) All heroes are villains.
- II) All villains are zeros
- III) Some heroes are jokers.

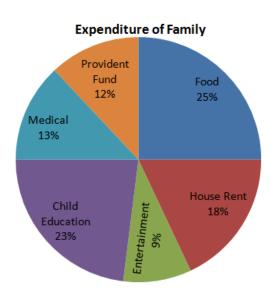
Conclusions

- Some Jokers are heroes
- Some villains are jokers
- III) Some zeros are villain

Which of the above conclusions will follow?

- A. Only I. II follow
- B. All I. II. III follows
- C. Only I. III follow
- D. Only I. II follow

<u>Directions (33 - 36):</u> Study the chart and answer the questions: The pie chart given here represents the domestic expenditure of a family in percent. Study the chart and answer the following questions if the total monthly income of the family is Rs. 33,650



- 33. The house rent per month is:
 - A. Rs. 6000
 - B. Rs. 6152
 - C. Rs. 6057
 - D. Rs. 6048
- 34. The annual savings in the form of provident fund would be:
 - A. Rs. 48456
 - B. Rs. 48540
 - C. Rs. 44856
 - D. Rs. 45480
- 35. After providential fund deductions and payment of house rent, the total monthly income of the family remains:
 - A. Rs. 23545
 - B. Rs. 24435
 - C. Rs. 23555
 - D. Rs. 25355
- 36. The total amount per month, the family spends on food and entertainment combined together, is:
 - A. Rs. 11432
 - B. Rs. 11441
 - C. Rs. 12315
 - D. Rs. 12443

Directions (37 - 40):

Study the table and answer the questions:

Year

	English		Maths		Science		Social Science	
	High.	Ave.	High.	Ave.	High.	Ave.	High.	Ave.
2007	80	70	94	60	89	70	65	55
2008	82	65	85	62	95	64	66	58
2009	71	56	92	68	97	68	68	48
2010	75	52	91	64	92	75	77	58

- 37. What is the overall average of marks in the four subjects in the year 2009?
 - A. 63
 - B. 64
 - C. 65
 - D. 60
- 38. Supposing that there were 40 students in science in the year 2009. How much total of marks did they receive combined together?
 - A. 2800
 - B. 2720
 - C. 2560
 - D. 3000
- 39. In which year, the difference between the highest and the average marks in Maths was maximum?
 - A. 2009
 - B. 2010
 - C. 2007
 - D. 2008
- 40. In which year, the difference between the highest and the average marks in Social Science was least?
 - A. 2009
 - B. 2010
 - C. 2007
 - D. 2008

English Language and Verbal Ability

41. Spot the error

Peter would not (A) have suffered (B) when Maria had (C) helped him in time. (D)

- A. A
- B. B
- C. C
- D. D
- 42. In the following question, an incomplete statement (Stem) followed by fillers is given. Pick out the best one which can complete incomplete stem correctly and meaningfully.

In order to help the company, attain its goal of enhancing profit, all the employees

- A. urged the management to grant paid leave
- B. appealed the management to implement new welfare schemes
- C. voluntarily offered to work overtime with lucrative compensation
- D. voluntarily offered to render additional services in lieu of nothing
- 43. In the question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

I read an advertisement that said

- P. posh, air-conditioned
- Q. gentleman of taste
- R. are available for
- S. fully furnished rooms

The Proper sequence should be:

- A. PQRS
- B. PSRQ
- C. PSQR
- D. SRPQ
- 44. He is so that he immediately believes my story of ghosts.
 - A. Innocent
 - B. Credulous
 - C. Vociferous
 - D. Credible
- 45. 'To play second fiddle' means
 - A. to come at the second position
 - B. to take a subordinate position to another person
 - C. to get the second chance
 - D. feeling sad

- 46. Extreme old age when a man behaves like a fool
 - A. Imbecility
 - B. Senility
 - C. Dotage
 - D. Superannuation
- 47. The following question consists of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.

THRUST:SPEAR

- A. mangle:iron
- B. scabbard:sword
- C. bow:arrow
- D. fence: epee
- 48. Find the odd man out.
 - A. Hiatus
 - B. Break
 - C. Pause
 - D. End
- 49. Find the incorrect usage of the word given in Italics

Slam

- A. I heard the door slam behind him
- B. She slammed down the phone angrily
- C. She slammed his face hard
- D. The car skidded and slammed into a tree.
- 50. In the sentence, identify the segment which contains the grammatical error.

We padded the seat of the chair with camel hairs to make it soft.

- A. We padded the
- B. seat of the chair
- C. with camel hairs
- D. to make it soft
- 51. Find the synonym

Gullible

- A. Easy-going
- B. Stylish
- C. Incredulous
- D. Brave

52. In the following question, a sentence/ a part of sentence is underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is required, choose "No Improvement" option.

To <u>emend</u> a piece of writing means to remove mistakes from it.

- A. Amend
- B. Edit
- C. Rephrase
- D. no improvement
- 53. In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.

A closed political meeting

- A. Cortege
- B. Cache
- C. Caucus
- D. Clique
- 54. In the following question, the first word is given in capital letters followed by four other words, one of which is the antonym of the first word. Find the word.

DUBIOUS

- A. Reluctant
- B. **Believable**
- C. Sceptical
- D. Problematic

Read the following passage carefully and answer questions 55 to 60:

Heritage conservation practices improved worldwide after the International Centre for the Study of the Preservation and Restoration of Cultural Property (ICCROM) was established with UNESCO's assistance in 1959. The inter-governmental organization with 126 member states has done a commendable job by training more than 4,000 professionals, providing practice standards, and sharing technical expertise. In this golden jubilee year, as we acknowledge its key tole in global conservation, an assessment of international practices would be meaningful to the Indian conservation movement. Consistent investment, rigorous attention, and dedicated research and dissemination are some of the positive lessons to imbibe. Countries such as Italy have demonstrated that prioritizing heritage with significant budget provision pays. On the other hand, India, which is no less endowed in terms of cultural capital, has a long way to go. Surveys indicate that in addition to the 6,600 protected monuments, there are over 60,000 equally valuable heritage structures that await attention. Besides the small group in the service of Archaeological Survey of India, there are only about 150 trained conservation professionals. In order to overcome this severe shortage, the emphasis has been on setting up dedicated labs and training institutions. It would make much better sense for conservation to be made part of mainstream research and engineering institutes, as has been done in Europe. Increasing funding and building institutions are the relatively easy part. The real challenge is to redefine international approaches to address local contexts. Conservation cannot limit itself to enhancing the art-historical value of the heritage structures, which

international charters perhaps over emphasize. The effort has to be broad-based: It must also serve as a means to improving the quality of life in the area where the heritage structures are located. The first task therefore is to integrate conservation efforts with sound development plans that take care of people living in the heritage vicinity. Unlike in western countries, many traditional building crafts survive in India, and conservation practices offer an avenue to support them. This has been acknowledged by the Indian National Trust for Art and Cultural Heritage charter for conservation but is yet to receive substantial state support. More strength for heritage conservation can be mobilized by aligning it with the green building movement. Heritage structures are essentially Eco-friendly and conservation could become a vital part of the sustainable building practices campaign in future.

- 55. The outlook for conservation heritage changed
 - A. after the establishment of the International Centre for the Study of the Preservation and Restoration of Cultural Property.
 - B. after training the specialists in the field.
 - C. after extending UNESCO's assistance to the educational institutions
 - D. after ASI's measures to protect the monuments
- 56. The inter-government organization was appreciated because of
 - A. increasing number of members to 126.
 - B. imparting training to professionals and sharing technical expertise.
 - C. consistent investment in conservation.
 - D. its proactive role in renovation and restoration
- 57. Indian conservation movement will be successful if there would be
 - A. Financial support from the Government of India.
 - B. Non-governmental organizations role and participation in the conservation movement.
 - C. consistent investment, rigorous attention, and dedicated research and dissemination of awareness for conservation.
 - D. Archaeological Survey of India's meaningful assistance.
- 58. As per the surveys of historical monuments in India, there is very small number of protected monuments. As per given the total number of monuments and enlisted number of protected monuments, percentage comes to
 - A. 10 percent
 - B. 11 percent
 - C 12 percent
 - D. 13 percent
- 59. What should India learn from Europe to conserve our cultural heritage?
 - A. There should be significant budget provision to conserve our cultural heritage.
 - B. Establish dedicated labs and training institutions.
 - C. Force the government to provide sufficient funds.
 - D. Conservation should be made part of mainstream research and engineering institutes.

Choose correct answer from the codes given below:

- A. (i) (ii), (iii, (iv)
- B. (i). (ii) (iv)
- C. (i), (ii)
- D. (i), (iii), (iv)
- 60. INTACH is known for its contribution for conservation of our cultural heritage. The full form of **INTACH** is
 - A. International Trust for Art and Cultural Heritage.
 - B. Intra-national Trust for Art and Cultural Heritage
 - C. Integrated Trust for Art and Cultural Heritage
 - D. Indian National Trust for Art and Cultural Heritage

AND SAMPLE.