

IIMK
KOCHI CAMPUS

भारतीय प्रबंध संस्थान, कोषिक्कोड
आई आई एम के- कोच्चि कैंपस, इन्फेपार्क- 682042

## INDIAN INSTITUTE OF MANAGEMENT, KOZHIKODE

IIMK-Kochi Campus, Infopark-682 042

## Quantitative Aptitude

1. What least number must be added to 1056 , so that the sum is completely divisible by 23 ?
A. 2
B. 3
C. 18
D. 21
2. The sum of two numbers is 216 and their H.C.F is 27 . The numbers are;
A. 81,189
B. 27,189
C. 108,108
D. 154,81
3. The average age of 50 teachers of a school is 66 years and the average age of 60 teachers of another school is 55 years. What will be average age of teachers of both the schools together?
A. 60 years
B. 57.5 years
C. 65 years
D. 62.5 years
4. The market price of an article is Rs. 640. A trader earns $20 \%$ profit when he sells it at a discount of $40 \%$ on its market price. The cost price of the article is:
A. Rs. 360
B. Rs. 320
C. Rs. 330
D. Rs. 350
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
B. $35 / 13$ days
C. $24 / 9$ days
D. $24 / 7$ days
6. A man walks from point $X$ to $Y$ at a speed of $20 \mathrm{~km} / \mathrm{h}$, but comes back from point $Y$ to $X$ at a speed of $25 \mathrm{~km} / \mathrm{h}$. Find his average speed.
A. $222 / 9 \mathrm{~km} / \mathrm{hr}$
B. $242 / 9 \mathrm{~km} / \mathrm{hr}$
C. $232 / 9 \mathrm{~km} / \mathrm{hr}$
D. $252 / 9 \mathrm{~km} / \mathrm{hr}$
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
B. Rs. 690
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
11. Two students appeared at an examination. One of them secured 9 marks more than the other 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. $1 / 4$
C. $1 / 5$
D. $1 / 7$
15. The speed of a boat in still water is $9 \mathrm{~km} / \mathrm{hr}$ and the speed of stream is $3 \mathrm{~km} / \mathrm{hr}$. The difference between the upstream speed and downstream speed will be:
A. $6 \mathrm{~km} / \mathrm{hr}$
B. $5 \mathrm{~km} / \mathrm{hr}$
C. $3.5 \mathrm{~km} / \mathrm{hr}$
D. $7.5 \mathrm{~km} / \mathrm{hr}$
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 10 V 2 cm , then what will be area of the square?
A. 200 cm square
B. $\quad 100 \mathrm{~cm}$ square
C. $\quad 150 \mathrm{~cm}$ square
D. 50 cm square
18. 30th term of the Arithmetic progression 10, 7, 4, ..., is
A. 97
B. 77
C. -77
D. -87
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

## 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
22. Find the missing letters in the series. RQP, ONM, , IHG, FED.
A. CDE
B. LKI
C. LKJ
D. $B A C$
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:
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 60 m . Finally, he turned to his right at an angle of $45^{\circ}$. 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.
ll. 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:
I) Some Jokers are heroes
II) Some villains are jokers
III) Some zeros are villains

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

Directions (33-36): 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 . $\qquad$
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 $\qquad$ 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 emend 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 keyrole 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. 7opercent
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


END OF QUESTION PAPER ${ }^{* * * * * * * * * * * * * * * * * * * * * * * * * * ~}$

