Aditya Group of Degree Colleges

ADITYA DEGREE COLLEGES

* ANDHRA PRADESH *

II YEAR PRE FINAL EXAM- ANALYTICALSKILLS

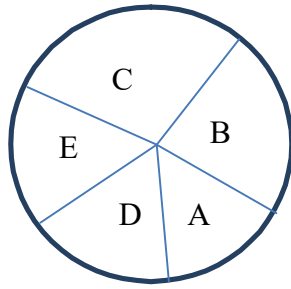**Max. Marks : 50**
Time : 120 Mints

Date: 23.03.2020

(1to5) Read the following table carefully and answer the questions below it.

Road accidents registered in a State				
	Types of accidents			
Year	Casualties	Serious	Injurious	Minor
2004	6,000	6,600	20,300	31,700
2005	7,000	7,700	22,100	36,000
2006	8,600	8,500	23,400	38,000
2007	7.900	8,600	32,000	37,000
2008	6,500	7,300	18,200	29,800

1. In which of the following years the total number of accidents registered was highest?
   A. 2004   B. 2005   C. 2006   D. 2007
2. What is the percentage reduction in casualties from the year 2007 to 2008?
   A. above 10   B. above 20   C.above 15   D.above 5
3. In which of the following pairs of years the percentage of casualties among the total accidents registered in that year is less than 10%?
   A. 2004&2007   B. 2004 &2006   C. 2006 &2007   D. 2007&2008
4. What is the ratio between the injurious accidents in the year 2004 to that in the year 2008?
   A. 13:26   B. 29:26   C. 17:14   D. 13:14
5. Between which of the following years the ratio between the number of minor accidents is 18:19
   A. 2004&2008   B. 2005&2007   C. 2006&2007   D. None

(6 to 10)The following pie diagram shows the expenditure incurred on a preparation of a book by a publisher under different heads. A= paper 20% , B= printing 25% , C =Binding= 30% , D =royalty 15% , E=miscellaneous=10%

6. What is the angle corresponding to royalty?
    A. 15^0 B. 24^0 C. 48^0 D.54^0

7. The Marked price of the book is 20% more than Cost price. If Marked price is Rs. 30 what is the cost of paper used in a single copy of the book?
    A. Rs.6   B. Rs. 5   C. Rs. 4.50   D. Rs.6.50

8. Which two expenditures together will form an angle of 108^0
    A. A&E   B. B&E   C. A&D   D. D&E

9. If the difference between two expenditures is 18^0,the expenditures are
    A. B&E   B. A&C   C. B&D   D. B&C

10. What is the expenditure on binding, if the total expenditure is Rs.40 on each book?
    A. Rs.16   B. Rs. 15   C. Rs.13   D. Rs.12

11. 49:121::169 : ....
    A. 268   B. 289   C. 679   D. 723

12. 10:50::12 : ......
    A. 75   B. 72   C. 79   D. 80

13. 12:132::8: ......
    A. 56   B. 64   C. 60   D. 70

14. 345 : 12 :: 432 : ....
    A. 18   B. 9   C. 20   D. 30

15. 25 : 5 : : 100 : ....
    A. 111   B. 12   C. 10   D. 16

16. 10 ,22 ,40 ,64 ,94 ,130 , __
    A.166   B.172   C.180   D.206

17. 14 , 34 , 74 , 154 , 314 , _
    A.604   B. 624   C. 614   D.634

18. 64 , 5, 32 , 15 , 16 , 45 , 8 , 135 , __
    A.6   B.4   C.2   D.0

19. 5 , 3 , 15 , 7 , 4 , 28 , 8 , 7 , _
    A.15   B.42   C.56   D.63

20. 1 ,19 55 ,109 ,181,__
    A.271   B.250   C.290   D.281

21. Find the least of value of '*' so that the number 37*124 is divisible by 9 ?
    A.1   B. 10   C. 2   D. 3

22. The least number which when divided by 6, 9, 12, 15, 18 leaves the same remainder 2 in each case, is:
    A.176   B.178   C.180   D.182

23. The LCM of two numbers is 2376 while their HCF is 33. If one of the numbers is 297, then the other number is

    A.216　　　　　　　B.264　　　　　　　C.642　　　　　　　D.792

24. How many days are there in x weeks x days?

    A. $7x^2$　　　　　　B. 8x　　　　　　　C. 14x　　　　　　　D. 7

25. It was Sunday on January-1-2006. Find the day of the week on January-1-2010?

    A. Sunday　　　　　B. Saturday　　　　C. Friday　　　　　D. Wednesday

26. What was the day of the week on 7th October, 2003?

    A. Sunday.　　　　　B. Saturday.　　　C. Friday.　　　　D Tuesday

27. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs?

    A. 6.25　　　　　　　B. 5.5　　　　　　　C. 7.4　　　　　　　D. 5

28. Present ages of Kiran and Syam are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively. What is Syam's present age in years?

    A. 28　　　　　　　　B. 27　　　　　　　C. 26　　　　　　　D. 24

29. A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets Rs. 1000 more than D, what is B's share?

    A.Rs. 500　　　　　B.Rs. 1500　　　　C.Rs. 2000　　　　D. None

30. A train is 100 meter long and is running at the speed of 30 km per hour. Find the time it will take to pass a man standing at a crossing.

    A. 10 seconds　　　B.12 seconds　　　C.14 seconds　　　D.16 seconds

31. . A train is moving at a speed of 132 km/hour. If the length of the train is 110 meters, how long will it take to cross a railway platform 165 meters long.

    A. 7 second　　　　B.7.5 second　　　C. 8 second　　　　D. 8.5 second

32. A man is 24 years older than his son. In two years, his age will be twice the age of his son. What is the present age of his son?

    A. 23 years　　　　B. 22 years　　　　C. 21 years　　　　D. 20 years

33. The average age of husband, wife and their child 3 years ago was 27 years and that of wife and the child 5 years ago was 20 years. What is the present age of the husband?

    A. 40　　　　　　　　B. 32　　　　　　　C. 28　　　　　　　D. 30

34. . The average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What is the weight of the new person?

    A. 75 Kg　　　　　B. 50 Kg　　　　　C. 85 Kg　　　　　D. 80 Kg

35. A train 110 metres long is running with a speed of 60 kmph. In what time will it pass a man who is running at 6 kmph in the direction opposite to that in which the train is going?

    A.5 sec　　　　　　B.6 sec　　　　　　C.7 sec　　　　　　D.10 sec

36. In an examination it is required to get 40% of minimum marks to pass. A student got 142 marks, Thus he got 22 marks more than minimum marks required to pass. What is total marks?

    A. 350　　　　　　　B. 400　　　　　　　C. 300　　　　　　　D. None of these

37. A mixture of 30 litres of milk and water contains 30% of water. The new mixture is formed by adding 10 lit of water. What is the percentage of water in the new mixture?

    A. 45 3/2%　　　　B. 47 3/2%　　　　C. 47 1/4%　　　　D. 47 1/2%

II YEAR AS

38. When a number is first increased by 10% and then reduced by 10%, The number is:
    A. Does not change   B.Decreases by 1%
    C. Increases by 1%   D. None of these

39. If A is 25% greater than B then how much percentage is B smaller than A?
    A. 20%   B.25%   C. 28%   D. 21%

40. A man buys a cycle for Rs. 1400 and sells it at a loss of 15%. What is the selling price of the cycle?
    A.Rs. 1090   B. Rs. 1160   C. Rs. 1190   D. Rs. 1202

41. Sam purchased 20 dozens of toys at the rate of Rs. 375 per dozen. He sold each one of them at the rate of Rs. 33. What was his percentage profit?
    A. 3.5   B. 4.5   C. 5.6   D. 6.5

42. Some articles were bought at 6 articles for Rs. 5 and sold at 5 articles for Rs. 6. Gain percent is:
    A. 30%   B. 33 1/3%   C. 35%   D. 44%

43. A dealer sold two of his cattle for Rs. 500 each. On one of them he lost 10% on the other, he gained 10%. His gain or loss percent in the entire transaction was
    A. 10% loss   B. 1% loss   C.1% gain   D.Neither loss nor profit

44. How much time will it take for an amount of Rs. 900 to yield Rs. 81 as interest at 4.5% per annum of simple interest?
    A. 2 years   B. 3 years   C. 1 year   D. 4 years

45. At what rate percent of simple interest will a sum of money double itself in 20 years?
    A. 4%   B. 5%   C. 6%   D. 8%

46. The compound interest on Rs. 30,000 at 7% per annum is Rs. 4347. The period (in years) is:
    A. 1   B. 2   C. 3   D. 3.5

47. The population of a town is 40,000. It decreases by 20 per thousand per year. Find out the population after 2 years.
    A. 38484   B. 38266   C. 38416   D. 38226

48. A, B, C subscribe Rs. 50,000 for a business. A subscribes Rs. 4000 more than B and B Rs. 5000 more than C. Out of a total profit of Rs. 35,000, A receives:
    A.Rs. 8400   B.Rs. 11,900   C.Rs. 13,600   D.Rs. 14,700

49. A,B and C enter into a partnership investing Rs 35000, Rs 45000 and 55000. Find the share of A in the annual profit of 40,500
    A.10500,   B.13500,   C. 19500   D. None

50. Rs. 700 is divided among A, B, C so that A receives half as much as B and B half as much as C. Then C's share is
    A.Rs 200   B.Rs 300   C.Rs 400   D.Rs 500