APTITUDE TEST FOR PLUS ONE ADMISSION (MODEL QUESTIONS)
COMMERCE STREAM
ENGLISH

Following are some of the IDIOMS in English. Meaning of each is given as an option. Choose the correct option for each: (Qns. 1 – 4)

1. TO TAKE WITH A GRAIN OF SALT
   A. Good and evil
   B. Former and latter
   C. To take with some reservation
   D. To destroy before it blooms
   E. To accept willingly

2. IN A FOOL'S PARADISE
   A. Living in illusions
   B. In a good place
   C. Being among idiots
   D. Living with nice ideas
   E. Living happily

3. COCK AND BULL STORY
   A. Very strong and opinionated
   B. Very irrational and evil
   C. Absurd and unbelievable story
   D. Uninteresting and unimaginative
   E. To be idiotic

4. DO NOT STICK YOUR NECK OUT
   A. Interfere
   B. Look outside
   C. Move
   D. Invite trouble
   E. Argument

Choose the correctly spelt words in the following questions: (Qns. 5 – 8)

5. A. EMANCIPATION
   B. EMANCIPASION
   C. EMENCIPATION
   D. EMANSIPATION
   E. IMANSIPATION

6. A. HINDRANCE
   B. CORESPONDENCE
   C. INSURANCE
   D. ASSURENCE
   E. ENSSURANCE

7. A. POPULAS
   B. POMPUOUS
   C. PRELIOUS
   D. PRESUMPTUOUS
   E. PITIOUS

8. A. ENTERPRENEUR
   B. ENTREPRENURE
   C. ENTREPRENEUR
   D. ENTERPRENURE
   E. ENTREPERNURE

The following phrases/sentences could be substituted with a word. Choose the right word for each: (Qns. 9 – 11)

9. "To look at someone in an angry or threatening way"
   - A. Fatal
   - B. Prevaricate
   - C. Epitaph
   - D. Glower
   - E. Lovingly

10. "To feel or express disapproval of something or someone"
    - A. Deprecate
    - B. Commemorate
    - C. Appreciate
    - D. Encourage
    - E. Devotedly

11. "A political leader appealing to popular desires and prejudices"
    - A. Dictator
    - B. Truant
    - C. Demagogue
    - D. Triumvirate
    - E. Tyrant

Sentences are given with blanks to be filled in with an appropriate word. Choose the correct alternative out of the five options given: (Qns. 12 – 15)

12. The hotel was not too expensive, _____
    - A. Was it?
    - B. Wasn't it?
    - C. Is it?
    - D. Isn't it?
    - E. Weren't it?

13. She decided to _____ as the competition was quite stiff.
    - A. Stand out
    - B. Leave
    - C. Get out
    - D. Stand down
    - E. Stand up

14. The Paralympics is a competition for the _____.
    - A. Disadvantaged
    - B. Discouraged
    - C. Disabled
    - D. Despised
    - E. Destitute

15. How much longer _____ this book?
    - A. You are needing this book
    - B. Will you be needing
    - C. Will you have needing
    - D. Have you needing
    - E. Have you been needing

SOCIAL SCIENCE & GK

16. Which day is observed as National Consumers Day?
    - A. January 24
    - B. December 24
    - C. February 24
    - D. November 24
    - E. March 24

17. Which among the following state records highest infant mortality?
    A. Tamil Nadu
    B. Goa
    C. Odisha
    D. Haryana
    E. Bihar

18. What is meant by unfavourable balance of trade?
    A. Value of exports exceeds value of imports
    B. Value of imports exceeds value of exports
    C. Value of imports and exports are equal
    D. Value of exports and imports are not calculated.
    E. None of the above

19. The large wind farm cluster is located in India in the state of :
    A. Karnataka
    B. Tamil Nadu
    C. Kerala
    D. Odisha
    E. Andhra Pradesh

20. Sri Lanka emerged as an independent country in:
    A. 1947
    B. 1948
    C. 1949
    D. 1950
    E. 1960

21. How many languages are included in the eighth schedule of the Indian Constitution?
    A. 21
    B. 22
    C. 23
    D. 24
    E. 25

22. Who wrote Vande Mataram?
    A. Abanindranath Tagore
    B. Rabindranath Tagore
    C. Bankim Chandra Chattopadhyay
    D. Bal Gangadhar Thilak
    E. Subash Chandra Bose

23. Where are most of the people employed in India?
    A. Primary sector
    B. Secondary sector
    C. Tertiary sector
    D. IT
    E. None of these

24. Who is the present Reserve Bank governor of India?
    A. H.L.Dattu
    B. Urjit patel
    C. Pranab Mukherjee
    D. Reghuram Rajan
    E. Shaktikanta Das

25. The prime architect of Indian Constitution is
    A. Mahatma Gandhi
    B. Jawaharlal Nehru
    C. Dr. Rajendra Prasad
    D. Dr. B.R. Ambedkar
    E. Gopala Krishna Gokhale

26. The STARS is a new Centrally Sponsored Scheme under -
    A. Department of School Education and Literacy, Ministry of Education
    B. Indian Space Research Organisation
    C. Department of Science and Technology
    D. Department of Atomic Energy
    E. Department of Trade and Commerce

27. Which of the following is the world's most valuable Information Technology firm in terms of market capitalisation?
    A. Accenture
    B. Tata Consultancy Services
    C. IBM
    D. Infosys
    E. Ranbaxy

28. Which state's assembly passed a resolution to abolish the Legislative Council in January 2020?
    A. Telangana
    B. West Bengal
    C. Andhra Pradesh
    D. Maharashtra
    E. Bihar

29. India's longest river ropeway for passengers was inaugurated in –
    A. Shimla
    B. Manali
    C. Rishikesh
    D. Guwahati
    E. Agra

30. Which part of the Constitution of India declares the ideal of Welfare State?
    A. Directive Principles of State Policy
    B. Fundamental Rights
    C. Preamble
    D. Seventh Schedule
    E. Second Schedule

MATHEMATICS

31. Which of the following is not possible?
    A. $Sin\theta = \frac{5}{7}$
    B. $Cos\theta = \frac{1+t^2}{1-t^2}, t \neq 0$
    C. $tan\theta = 100$
    D. $Sec\theta = \frac{5}{2}$
    E. $Sin\theta = \frac{1-t^2}{1+t^2}$

32. (p+q)th and (p-q)th terms of an A.P are respectively m and n. The pth term is
    A. $\frac{1}{2}(m+n)$
    B. $\sqrt{m+n}$
    C. $m+n$
    D. mn
    E. $\frac{1}{2}(m-n)$

33. Mean of the first n odd natural numbers is
   A. $\frac{n+1}{2}$
   B. n
   C. n+1
   D. $\frac{n-1}{2}$
   E. None of these

34. If ΔABC and ΔDEF are similar triangles such that $\angle A = 47°$ and $\angle E = 83°$, then $\angle C =$
   A. 50°
   B. 60°
   C. 70°
   D. 80°
   E. 75°

35. The next term of the A.P $\sqrt{8}, \sqrt{18}, \sqrt{32}$ is
   A. $5\sqrt{2}$
   B. $5\sqrt{3}$
   C. $3\sqrt{3}$
   D. $4\sqrt{3}$
   E. $3\sqrt{2}$

36. A bag contains three green marbles, four blue marbles and two orange marbles. If a marble is picked at random, then the probability that is not an orange marble is
   A. 1/4
   B. 1/3
   C. 4/9
   D. 7/9
   E. 1/9

37. If $\tan\theta = \frac{3}{4}$ then $\cos^2\theta - \sin^2\theta =$
   A. 7/25
   B. 1
   C. –7/25
   D. 4/25
   E. 1/25

38. If area of a circle of radius r is A and its circumference is C, then
   A. A=rC
   B. AC=$4r^2$
   C. AC=2r
   D. A=$\frac{1}{2}$rC
   E. A=$\frac{1}{4}$rC

39. The reflection of the point P(– 1, 3) with respect to the line x=2
   A. (1, 3)
   B. (3, 5)
   C. (5, 3)
   D. (3, 1)
   E. (2,3)

40. If px² + 3x+q=0 has two roots – 1 and – 2, then the value of q – p is
   A. – 1
   B. 2
   C. – 2
   D. 1
   E. 3

41. A point P is 10cm from the centre of a circle. The length of the tangent drawn from P to the circle is 8cm. The radius of the circle is equal to
   A. 4cm
   B. 5cm
   C. 6cm
   D. 7 cm
   E. None of these

42. The fourth vertex D of a parallelogram ABCD, whose three vertices are A(6, 7), B(8, 3) and C(0, – 1), is
   A. (– 2, 3)
   B. (2, – 3)
   C. (3, – 2)
   D. (3, 2)
   E. (-2, -3)

43. The mean of marks scored by 100 students was found to be 40. Later as it was discovered that a score of 53 was misread as 83. Then the correct mean is
   A. 38
   B. 38.3
   C. 39
   D. 39.7
   E. 37.8

44. Which of the following is not a measure of central tendancy
   A. Mean
   B. Median
   C. Range
   D. Mode
   E. All of the above

45. If $x^2 – 2ax + a^2 – b^2 = 0$, then x=
   A. a
   B. b
   C. a+b
   D. 2a - b
   E. None of these

46. The sum of first 'n' natural numbers is 276. Find 'n'.
   A. 23
   B. 24
   C. 25
   D. 26
   E. 27

47. If the distance of P(x, y) from A(5, 1) and B(-1, 5) are equal then 2y =
   A. x
   B. 2x
   C. 3x
   D. 5
   E. 3

48. The number of balls, each of radius 1cm, can be made from a solid sphere of lead of radius 8cm.
   A. 486
   B. 500
   C. 512
   D. 576
   E. 543

49. The probability that a leap year selected at random will contain 53 Sundays.
   A. $\frac{1}{7}$
   B. $\frac{2}{7}$
   C. $\frac{3}{7}$
   D. $\frac{4}{7}$
   E. $\frac{5}{7}$

50. For what value of 'k' the following pair has infinite number of solutions:
   (k–3)x+3y=k, k(x + y)=12
   A. k = – 6
   B. k =4
   C. k = – 4
   D. k = -3
   E. k = 6

MENTAL ABILITY

51. Which of the alternative figures would correctly fill in the blank space in the following series of numbers?   4, 9, 13, 22, 35,………
    A. 47
    B. 70
    C. 75
    D. 63
    E. 57

52. In a certain code FIRE is coded as DGPC. What will be the last letter of the coded word for 'SHOT'?
    A. Q
    B. R
    C. S
    D. T
    E. none of these

53. If $ means –, * means +, @ means ÷, # means ×, then 3#5*63@7$12=?
    A. 52
    B. 22
    C. 1
    D. 2
    E. 12

54. Pointing to a person in a photograph, lady said, "His sister is the daughter of my father's son's mother". How is the person related to the lady?
    A. Sister
    B. Brother
    C. Nephew
    D. Father
    E. None of these

55. How many times in a day, are the hands of a clock in straight line but opposite in direction?
    A. 18
    B. 22
    C. 26
    D. 28
    E. None of these

56. In a row 'A' is in the 11th position from the left and 'B' is in the 10th position from the right. If 'A' and 'B' interchange, then 'A' becomes 18th from the left. How many persons are there in the row other than 'A' and 'B'?
    A. 27
    B. 26
    C. 25
    D. 24
    E. None of these

57. How many numbers lie between 300 and 500 in which 4 comes only one time?
    A. 99
    B. 100
    C. 110
    D. 120
    E. None of these

58. In a tournament 14 teams play league matches. If each team plays against every other team once only then how many matches are played?

A. 105
B. 91
C. 85
D. 78
E. None of these

59. Seven men, A, B, C, D, E, F and G are standing in a queue in that order. Each one is wearing a cap of a different colour like violet, indigo, blue, green, yellow, orange and red. D is able to see in front of him green and blue, but not violet. E can see violet and yellow, but not red. G can see caps of all colours other than orange. If E is wearing an indigo coloured cap, then the colour of the cap worn by F is

A. Blue
B. Violet
C. Red
D. Orange
E. indigo

60. A person has 4 coins each of different denomination. What is the number of different sums of money the person can form (using one or more coins at a time)?

A. 16
B. 15
C. 12
D. 11
E. None of these