1. Which of the following factors affect the consistency of a liquid food?
   (A) Temperature
   (B) Degree of dispersion
   (C) Mechanical treatment
   (D) All of these

2. What is the name of the food that is made by boiling fruit pulp with sufficient quantity of sugar to a reasonably thick consistency till it forms enough to hold the fruit tissues in position?
   (A) Jam
   (B) Jelly
   (C) Murabba
   (D) None of these

3. Compared to cooking time in water, foods get cooked _______ in oil.
   (A) slower
   (B) faster
   (C) in the same time
   (D) none of these

4. While roasting, the food is turned around constantly since
   (A) the heat is intense
   (B) it takes less time
   (C) it imparts a uniform cooking from all sides
   (D) none of these

5. What is the process of cooking vegetables in water for long time on low heat, called?
   (A) Grilling
   (B) Boiling
   (C) Stewing
   (D) Baking

6. What is the role of salt in food preparation?
   (A) Seasoning
   (B) Draws out the water
   (C) Both of these
   (D) None of these

7. What are the characteristics of sautéing?
   (A) Small amount fat is used
   (B) The food is cooked over low heat
   (C) The food is frequently stirred or turned
   (D) All of these
8. Which type of sandwiches use three slices of bread?
   (A) Sunday sandwich  (B) Cucumber sandwich
   (C) Double Decker sandwich  (D) Sandwich cake

9. Poultry can be preserved and stored by
   (A) Canning  (B) Dehydrating and chilling
   (C) Freezing  (D) All of these

10. How does sugar prevent food spoilage?
    (A) by combining with the food and making it sweet
    (B) by concentrating the enzymes of the food
    (C) by dissolving in the water available in the food and starving microorganisms of water
    (D) by acid formation on combining with proteins of the food

11. The bacterium 'Bacillus Cereu' that causes diarrhea, abdominal cramps and nausea, is associated with which of the following foods?
    (A) Milk, rice, potato, and cheese products
    (B) Fish, shellfish, beef and pork
    (C) Raw chicken, non-chlorinated water
    (D) None of these

12. Amoebiasis is that condition when the human gut gets infected with
    (A) Plasmodium vivax  (B) Entamoeba histolytica
    (C) Paramecia hystolytica  (D) Escherichia coli

13. What is that process called, wherein the food stuff (such as milk) is heated at very high temperature and then quickly cooled?
    (A) Louisization  (B) Pasteurization
    (C) Inoculation  (D) Vaccination

14. Removal of oxygen from food inhibits oxygen dependant enzymatic and chemical reactions which inhibits growth of aerobic microorganisms. In which of the following ways can this be achieved?
    (A) Paraffin wax-coating  (B) Nitrogen back flushed bags
    (C) Canning food  (D) All of these

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15. A car starting from rest, accelerates at a constant rate of 5 ms\(^{-2}\) for some time. It then retards at a constant rate of 10 ms\(^{-2}\) and finally comes to rest. If the total time taken is 6 seconds, what is the maximum speed attained by the car in ms\(^{-1}\)?

(A) 5  
(C) 20  
(B) 10  
(D) 40

16. Two particles of mass “m” and “4 m” respectively have kinetic energies in the ratio 2:1. What is the ratio of their linear momenta?

(A) \(\frac{1}{\sqrt{2}}\)  
(C) \(\frac{1}{4}\)  
(B) \(\frac{1}{2}\)  
(D) \(\frac{1}{16}\)

17. Newtons per Kg represents the unit for

(A) Velocity  
(C) Rate of change of velocity  
(B) Impulse  
(D) None of the above

18. A simple pendulum has a time period of one second on earth. What adjustment is required so that the time period remains the same on a planet where the gravitational field is less than that of the earth?

(A) Use a massive bob  
(B) Increase the length of the string  
(C) Reduce the length of the string  
(D) Use an Invar thread

19. Which of the following is not a water borne disease?

(A) dysentery  
(C) typhoid  
(B) cholera  
(D) malaria

20. Blue baby disease may be caused in infants due to drinking water containing higher concentration of

(A) nitrates  
(C) ammonia  
(B) nitrites  
(D) lead

21. The presence of which of the following in water is associated with “mottling” of teeth?

(A) chlorides  
(C) calcium  
(B) fluorides  
(D) sulphur
22. The Chilka Lake Region is situated between the deltas of
   (A) Krishna and Kaveri       (B) Godavari and Krishna
   (C) Ganga and Mahanadi     (D) Mahanadi and Godavari

23. Which of the following countries is the largest rice producing nation in the world?
   (A) Australia   (B) USA   (C) India   (D) China

24. Guwahati is situated on the bank of the river
   (A) Brahmaputra   (B) Teesta
   (C) Sone         (D) Hooghly

25. Mt Everest is situated in
   (A) Russia       (B) Nepal
   (C) Manipur     (D) Himachal Pradesh

26. With which set of the following countries has Arunachal Pradesh common border?
   (A) Bhutan, Bangladesh and China
   (B) Myanmar, Bangladesh and China
   (C) Bhutan, China and Myanmar
   (D) Bhutan, Bangladesh and Myanmar

27. Which among the following is not a Gallantry award?
   (A) Arjuna Chakra     (B) Ashok Chakra
   (C) Param Vir Chakra  (D) Shaurya Chakra

28. What is the official residence of the US President?
   (A) The Kremlin       (B) Elysee Palace
   (C) Buckingham Palace (D) White House

29. Who among the following has not been a Chief Justice of India?
   (A) R. C. Lahoti
   (B) G. B. Pattanaik
   (C) S. S. Gill
   (D) V. N. Khare
30. Sachin is younger than Rahul by 7 years. If their ages are in the respective ratio of 7 : 9, how old is Sachin?
   (A) 16 years  (B) 18 years  (C) 28 years  (D) $24\frac{1}{2}$ years

31. The present ages of three persons are in the proportion 4 : 7 : 9. Eight years ago, the sum of their ages was 56. Find their present respective ages (in years).
   (A) 8, 20, 28  (B) 16, 28, 36  (C) 20, 35, 45  (D) None of these

32. The ratio between the length and the breadth of a rectangular park is 3 : 2. If a man cycling along the boundary of the park at the speed of 12 km/hr completes one round in 8 minutes, then the area of the park (in sq.m.) is
   (A) 15360  (B) 153600  (C) 30720  (D) 307200

33. An error 2% in excess is made while measuring the side of a square. The percentage of error in the calculated area of the square is
   (A) 2%  (B) 2.02%  (C) 4%  (D) 4.04%

34. The ratio between the perimeter and the breadth of a rectangle is 5 : 1. If the area of the rectangle is 216 sq.cm, what is the length of the rectangle?
   (A) 16 cm  (B) 18 cm  (C) 24 cm  (D) Data inadequate

35. 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) 6.5  (C) 6.75  (D) 7

36. A family consists of two grandparents, two parents and three grandchildren. The average age of the grandparents is 67 years, that of the parents is 35 years and that of the grandchildren is 6 years. What is the average age of the family?
   (A) $28\frac{4}{7}$ years  (B) $31\frac{5}{7}$ years  (C) $32\frac{1}{7}$ years  (D) None of these
37. What comes next?
5, 2, 7, 9, 16, 25, __________?
(A) 41    (B) 45    (C) 48    (D) 52

38. What comes next?
7, 26, 63, 124, 215, 342, _______?
(A) 391    (B) 421    (C) 481    (D) 511

39. What comes next?
6, 18, 3, 21, 7, 56, _______?
(A) 8    (B) 9    (C) 63    (D) 64

40. Find the missing number:
4, 9, 25, _______ , 121, 169, 289, 361
(A) 49    (B) 64    (C) 81    (D) 87

41. What comes next?
6, 13, 28, 59, _______?
(A) 111    (B) 113    (C) 114    (D) 122

42. In the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative:
cccbb__aa__cc__bbbaa__c
(A) acbc    (B) baca    (C) baba    (D) acba

43. In the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative:
bca__b__aabc__a__caa
(A) acab    (B) bcbb    (C) cbab    (D) ccab

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Read the given information carefully and answer Q Nos. 44 to 48. (i) There are five persons P, Q, R, S and T. One is a football player, one a chess player and one a hockey player. (ii) P and S are unmarried ladies and do not participate in any game. (iii) None of the ladies plays chess or football. (iv) There is a married couple in the group in which T is the husband. (v) Q is the brother of R and is neither a chess player nor a hockey player.

44. Who is the Football player?
   (A) P  
   (C) R  
   (B) Q  
   (D) S

45. Who is the Hockey player?
   (A) P  
   (C) R  
   (B) Q  
   (D) S

46. Who is the chess player?
   (A) Q  
   (C) S  
   (B) R  
   (D) T

47. Who is the wife of T?
   (A) P  
   (C) R  
   (B) Q  
   (D) S

48. The three ladies are
   (A) P, Q, R  
   (C) P, Q, S  
   (B) Q, R, S  
   (D) P, R, S
49. The ALU (Arithmetic Logic Unit) of a computer normally contains a number of high speed storage elements called
(A) semi-conductor memory     (B) registers
(C) hard disks              (D) magnetic disks

50. The purpose of cooking with the application of heat is
(A) To make the food more digestible    (B) To make the food more palatable
(C) To make the food safer to eat      (D) All of these

51. The compounds used in foods such as Sugar, fructose and glucose are examples of
(A) Fats                   (B) Proteins
(C) Enzymes               (D) Carbohydrates

52. Rice that has been partially boiled in the husk, is called
(A) Husk less rice        (B) Parboiled rice
(C) Boiled rice           (D) Red rice

53. The final product of cooking will have a certain texture depending on
(A) The order in which the ingredients are added
(B) The way of mixing
(C) The method of cooking
(D) All of these

54. Which of the following is an example of 'flaky' texture?
(A) Swiss rolls          (B) Nankhatai
(C) Veg puffs           (D) Madeira cake

55. Too much liquid, over mixing, incorrect mixing, too little fat and long cooking time could result in
(A) Toughness in food    (B) Flaky texture
(C) Light texture        (D) None of these

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56. The method of cooking Sheekh Kebab, Tikka, Tandoori Chicken, is
   (A) Boiling                      (B) Stewing
   (C) Roasting                    (D) Baking

57. Parathas, Omelettes and pancakes are cooked by
   (A) Sautéing                    (B) Deep frying
   (C) Shallow frying              (D) None of these

58. Idlis are cooked by
   (A) Boiling                     (B) Steaming
   (C) Roasting                    (D) Frying

59. This is a process in which the naturally present microorganisms are allowed to bring
    about desirable physical and chemical changes by converting the food into simple and
    better forms having increased nutrients availability. This process is called
   (A) Sprouting                    (B) Germination
   (C) Fermentation                 (D) None of these

60. What are the small bite sized foods usually served cold before a main meal to whet the
    appetite or sustain guests through a long cocktail hour, called?
   (A) Hors d'combat                (B) Desserts
   (C) Hors d'oeuvres               (D) Louvres d'oeuvres

61. These consist of a good flavoured stock containing diced meat or vegetables. They are
    thickened by the starch from either pearl barley or rice that is cooked with the other
    ingredients in the stock. What are we describing?
   (A) Broth                        (B) Bouillon
   (C) Cream                        (D) None of these
62. Treatment of fruits and vegetables with boiling water or steam for short periods followed by cooling, is known as
   (A) Washing
   (B) Blanching
   (C) Syruping
   (D) None of these

63. Salmonella are best killed by which of the following agents?
   (A) Wind
   (B) Oil
   (C) Water
   (D) Heat

64. Chemically, metals are
   (A) Electropositive
   (B) Electronegative
   (C) Neutral
   (D) None of these

65. Which of the following metals melts when kept on one's palm?
   (A) Cobalt
   (B) Gallium
   (C) Nickel
   (D) Mercury

66. The non-metal used in water treatment plants is
   (A) Chlorine
   (B) Hydrogen
   (C) Sulphur
   (D) Sulphur-dioxide

67. A mixture of ethanol and water can be separated by which of the following processes?
   (A) Filtration
   (B) Fractional distillation
   (C) Sublimation
   (D) Flocculation

68. The formula for red lead is
   (A) PbO
   (B) Pb₂O₃
   (C) Pb₃O₄
   (D) PbO₂

69. A body moving in a straight line, with an initial velocity of 5 m/s and a constant acceleration, covers a distance of 30 m in the 3rd second. How much distance will it cover in the next 2 seconds?
   (A) 70 m
   (B) 80 m
   (C) 90 m
   (D) 100 m
70. By what greatest number must 5191 and 5854 be divided to leave a remainder of 4 in each case?
   (A) 37  (B) 38  (C) 39  (D) 31

71. A hall has dimensions $24 \times 8 \times 6$ metres. What is the length of the longest pole that can be accommodated in this hall?
   (A) 26 metres  (B) 28 metres  (C) 30 metres  (D) 32 metres

72. A labourer was engaged for 30 days on the condition that for every day he worked he would be paid Rs. 2.5 as wages and that for every day he was absent he would be fined Rs. 1. If he altogether got Rs. 47, how many days did he actually work?
   (A) 20 days  (B) 21 days  (C) 22 days  (D) 23 days

73. The hypotenuse and perimeter of a right angled triangle are 10 cms and 24 cms respectively. What is the length of the smallest side of the triangle?
   (A) 5 cms  (B) 6 cms  (C) 7 cms  (D) 8 cms

74. If $a + b = 13$, $ab = 40$ and $a > b$, then what is the value of $a^2 - b^2$?
   (A) 37  (B) 38  (C) 39  (D) 40

75. If $x + (1/x) = 3$, then what is the value of $6x/(x^2 + 1)$?
   (A) 1  (B) 2  (C) 3  (D) 4

76. Which of the following contains the highest amount of protein?
   (A) Carrot  (B) Fish  (C) Brinjal  (D) Potato

77. Ginger is utilized
   (A) in beverages
   (B) as a preservative
   (C) in reduction of joint inflammation, headache and nausea
   (D) All of these

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78. In which State is the hydel power project Nathpa Jhakri located?
   (A) Himachal Pradesh   (B) Uttaranchal
   (C) Jammu and Kashmir   (D) Sikkim

79. Nagda is well known as a centre of production of
   (A) Steel   (B) Automobiles
   (C) Viscose staple fibre   (D) Electric motors

80. The term “Tee” is connected with
   (A) Billiards   (B) Bridge
   (C) Golf   (D) Polo

81. ‘Merdeka cup’ is associated with
   (A) Badminton   (B) Football
   (C) Hockey   (D) Golf

82. Who became the first batsman to score two double centuries in One Day International Cricket?
   (A) Sachin Tendulkar   (B) Rohit Sharma
   (C) Virat Kohli   (D) Suresh Raina

83. Which Cricket ground (stadium) in India celebrated completion of 150 years in November, 2014?
   (A) Wankhade stadium, Mumbai
   (B) M.A. Chidambaram stadium, Chennai
   (C) Eden Gardens stadium, Kolkata
   (D) Chinnaswamy stadium, Bengaluru

84. L. Sarita who created news by returning / refusing her medal at the Incheon Asian Games, in 2014, is associated with which sport?
   (A) Swimming   (B) Archery   (C) Boxing
   (D) Fencing

85. The sum of the present ages of a father and his son is 60 years. Six years ago, father's age was five times the age of the son. After 6 years, son's age will be
   (A) 12 years   (B) 14 years   (C) 18 years   (D) 20 years
86. A grocer has a sale of Rs. 6,435, Rs. 6,927, Rs. 6,855, Rs. 7,230 and Rs. 6,562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Rs. 6,500?

(A) Rs. 4,991 (B) Rs. 5,991 (C) Rs. 6,001 (D) Rs. 6,991

87. A bank offers 5% compound interest calculated on half-yearly basis. A customer deposits Rs. 1,600 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is

(A) Rs. 120 (B) Rs. 121 (C) Rs. 122 (D) Rs. 123

88. The difference between simple and compound interests compounded annually on a certain sum of money for 2 years at 4% per annum is Re. 1. The sum (in Rs.) is

(A) 625 (B) 630 (C) 640 (D) 650

89. 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. 1,425 (B) Rs. 1,500 (C) Rs. 1,537.50 (D) Rs. 1,576

90. A, B and C jointly thought of engaging themselves in a business venture. It was agreed that A would invest Rs. 6,500 for 6 months, B, Rs. 8,400 for 5 months and C, Rs. 10,000 for 3 months. A wants to be the working member for which, he was to receive 5% of the profits. The profit earned was Rs. 7,400. Calculate the share of B in the profit

(A) Rs. 1,900 (B) Rs. 2,660 (C) Rs. 2,800 (D) Rs. 2,840

91. 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

92. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had

(A) 588 apples (B) 600 apples (C) 672 apples (D) 700 apples

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93. In the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative:
   ab _ d _ aaba _ na _ badna _ b
   (A) andaa  (B) babda  (C) badna  (D) dbanb

94. In the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative:
   m _ nm _ n _ an _ a _ ma _
   (A) aamnan  (B) ammanm  (C) aamnnn  (D) amammnn

95. In the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative:
   _ bcc _ ac _ aabb _ ab _ cc
   (A) aabca  (B) abaca  (C) bacab  (D) bcaca

96. In a certain code language “PICTURE” is written as “QHDSVQF”. How would “BROWSER” be written in that code?
   (A) CQVVTDS  (B) CQPVTDS  (C) CQPUTDS  (D) CQVPPDS

97. GJ is related to MP in the same way as QT is related to
   (A) WZ  (B) WY  (C) VZ  (D) VY

98. Fill in the option that will replace the question mark:
   MNOP : KLMN : CRAV : ?
   (A) APYT  (B) XIZE  (C) QRST  (D) ABCD

99. Choose the odd one out:
   (A) 26  (B) 124  (C) 728  (D) 64

100. Choose the appropriate option that can replace the “?” sign in the relationship given
   4, 2, 2, 4; 2, 4, 4, 2 : 6, 4, 4, 6 : ?
   (A) 4, 6, 4, 6  (B) 4, 6, 6, 4  (C) 6, 4, 6, 4  (D) 2, 6, 6, 2

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