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2020

TEST BOOKLET

TEST BOOKLET SERIES

Time allowed : 1½ hours

Full marks : 100

Answer *all* the questions.

Questions are of equal value.



Serial No. **361**

Roll No.:

Signature of the Candidate:

INSTRUCTIONS

Candidates should read the following instructions carefully before answering the questions:

1. This booklet consists of 12 pages including this front page, containing 100 questions. **Verify the Page Nos. and Test Booklet series on each page and bring at once to the Invigilator's notice any discrepancy.**
2. Answers will have to be given in the Special Answer-Sheets supplied for the purpose.
3. Before you proceed to mark in the Answer-Sheet in response to various items in the Test Booklet, you have to fill in some particulars in the Answer-Sheet as per instructions sent to you in the Admit Card. **Do not fold the Answer-Sheet as this will result in error in your marks.**
4. All questions are of multiple-choice answer-type. You will find **four** probable answers (A), (B), (C) and (D) against each question. Find out which of the four answers appears to you to be correct or the best. Now darken the circle corresponding to the letter of the selected answer in the Answer-Sheet with **Black Ball Point Pen** as per instructions printed on the reverse of the Admit Card and in the Answer-Sheet.
5. One and only one circle is to be fully blackened for answer. Any spot in any other circle (multiple circle) or in wrong circle will be considered as wrong answer. If more than one circle is encoded for a particular answer, it will be treated as a wrong answer.
6. **There will be negative marking of $\frac{1}{3}$ mark for each wrong answer.**
7. **There is a blank page at the end of this Booklet for Rough Work.**
8. **The Special Answer-Sheet should be handed over to the Invigilator before leaving the Examination Hall. You are permitted to take away the used Test Booklet after completion of the examination.**

Find out the correct answer:

1. You have to find a good _____ for being late, otherwise they won't believe you.
 (A) cause
 (B) result
 (C) excuse
 (D) aim

Choose the correct option:

2. Don't make so much noise. Rita _____ to study for her ESL test!
 (A) try
 (B) tries
 (C) tried
 (D) is trying

Find out the correct answer:

3. Convert the following sentence into indirect speech choosing the right option:
 John said, "Did you see the cricket match on television last night?"
 (A) John asked me whether I saw the cricket match on television the earlier night.
 (B) John asked me whether I had seen the cricket match on television the earlier night.
 (C) John asked me did I see the cricket match on television the last night.
 (D) John asked me whether I had seen the cricket match on television the last night.

Choose the right phrase:

4. A recent survey identified the UK as _____ place in Europe to buy a car.
 (A) most expensive
 (B) the more expensive
 (C) more expensive
 (D) the most expensive

Find out the correct answer:

5. My mother _____ me for breaking the window.
 (A) accused
 (B) complained
 (C) praised
 (D) blamed

Choose the correct option:

6. Give a synonym of 'detest':
 (A) argue
 (B) hate
 (C) discover
 (D) reveal

Choose the correct option:

7. _____ many times every winter in Frankfurt.
 (A) It snows
 (B) It snowed
 (C) It is snowing
 (D) It is snow

Choose the correct option:

8. Managers set objectives and decide _____ their organization can achieve them.
 (A) what
 (B) how
 (C) which
 (D) because

Choose the right preposition:

9. The unions now represent less _____ 10% of the French work force.
 (A) of
 (B) in
 (C) than
 (D) then

Choose the correct option:

10. Which of these words is closest in meaning to 'pensive'?
 (A) oppressed
 (B) caged
 (C) thoughtful
 (D) happy

Choose the correct option:

11. I _____ tennis every Sunday morning.

- (A) playing
- (B) play
- (C) am playing
- (D) am play

Find out the correct option:

12. The _____ of the meeting is to improve the relationship between the two companies.

- (A) purpose
- (B) sense
- (C) reason
- (D) consequence

Choose the correct option:

13. We haven't had _____ news from our agent.

- (A) some
- (B) any
- (C) no
- (D) None

Choose the right preposition:

14. A defect can be caused _____ negligence committed by one of the members of a team.

- (A) by
- (B) to
- (C) at
- (D) in

Choose the right phrase:

15. The synonym of 'abandon' is:

- (A) try
- (B) join
- (C) keep with
- (D) forsake

Choose the correct option:

16. She tried to _____ him from doing something really dangerous, but he didn't listen.

- (A) avoid
- (B) check
- (C) block
- (D) prevent

Find out the correct answer:

17. You won't be allowed into the club _____ you wear a suit and tie.

- (A) if
- (B) unless
- (C) whether
- (D) since

Choose the correct option:

18. Choose the correct passive form of the following sentence:

Who gave you permission to enter?

- (A) By whom were you given permission to enter?
- (B) By whom given you permission to enter?
- (C) By whom you were given permission to enter?
- (D) By whom was you given permission to enter?

Choose the correct option:

19. The press conference was a _____ because the reporters didn't learn anything new.

- (A) dissatisfaction
- (B) regret
- (C) discontent
- (D) disappointment

Choose the correct option:

20. The word 'sacrosanct' means:

- (A) prayer
- (B) sanctuary
- (C) pious
- (D) sacred

Please Turn Over

21. If the numerator and the denominator of a fraction are increased by 2 and 1 respectively then the fraction becomes 1 while if the numerator and the denominator of that fraction are decreased by 4 and 2 respectively then the fraction becomes $\frac{1}{2}$. The fraction is

- (A) $\frac{7}{8}$
 (B) $\frac{2}{5}$
 (C) $\frac{1}{2}$
 (D) None of the above

22. The value of 'a' for which the expression $(a-2)x^2+3x+5=0$ will not be a quadratic equation is

- (A) 0
 (B) 1
 (C) 2
 (D) None of the above

23. If 30% of 50% of 70m equals 21, the value of 'm' is

- (A) 8.0
 (B) 7.5
 (C) 4.5
 (D) 2.0

24. Tansen, the great musician, was a respectable member in the court of

- (A) Bahadur Shah
 (B) Akbar
 (C) Shahjahan
 (D) Jahangir

25. If $\frac{x+1}{x} + \frac{x}{x+1} = 2\frac{1}{2}$, then

- (A) $x = 1$ or $x = -2$
 (B) $x = -1$ or $x = -2$
 (C) $x = -1$ or $x = 2$
 (D) $x = 1$ or $x = 2$

26. The famous Rock Garden is located in which city?

- (A) Chandigarh
 (B) Jaipur
 (C) Shimla
 (D) Lucknow

27. If there be a loss of 11% in selling an article at ₹ 178, at what price should it be sold to earn a profit of 11%?

- (A) ₹ 200
 (B) ₹ 222
 (C) ₹ 250
 (D) Insufficient information to determine

28. India's only Naval Aviation Museum is located in

- (A) Kerala
 (B) Goa
 (C) Karnataka
 (D) West Bengal

29. NPA of a commercial bank means

- (A) Net-Performing Asset
 (B) New-Performing Asset
 (C) Non-Personal Account
 (D) Non-Performing Asset

30. Find the next number in the sequence

16, 30, 54, 88, 132,

- (A) 186
 (B) 188
 (C) 190
 (D) 206

31. How many 5's are there in the following sequence of numbers which are immediately preceded by 7?

8953253855687335775365335738

- (A) One
- (B) Two
- (C) Three
- (D) Four

32. If a car travels 120 km from a place A to another place B at 60 kmph but returns at a speed of 40 kmph then the average speed (in kmph) for the round trip (A to B and back) is

- (A) 50
- (B) 48
- (C) 45
- (D) 42

33. In which of the following festivals are boat races a special feature?

- (A) Onam
- (B) Rongali Bihu
- (C) Pongal
- (D) Navratri

34. The monthly incomes of two persons A and B are in the ratio 4:5 and their monthly expenditures are in the ratio 7:9. If each saves ₹ 50 per month, then the monthly income of B is

- (A) ₹ 400
- (B) ₹ 500
- (C) ₹ 600
- (D) Cannot be determined

35. Which of the following pairs of words have the same relationship as FAN : HEAT?

- (A) WATER : DRINK
- (B) LIGHT : NIGHT
- (C) TEACH : STUDENT
- (D) AIR : BREATHE

36. Which industry is the maximum consumer of water?

- (A) Textile
- (B) Paper
- (C) Iron & Steel
- (D) Thermal Power

37. The paintings in the Ajanta and Ellora caves are indicative of the art under the

- (A) Pallavas
- (B) Rashtrakutas
- (C) Chalukyas
- (D) Pandyas

38. $(-1)^{5^2} + 1^{2^5} = ?$

- (A) -2
- (B) -1
- (C) 0
- (D) 1

39. Who is the author of the book entitled "Freedom Behind Bars"?

- (A) Sheikh Abdullah
- (B) Nelson Mandela
- (C) Kiran Bedi
- (D) Jawaharlal Nehru

40. The Supreme Commander of the Armed Forces in India is

- (A) The President
- (B) The Prime Minister
- (C) The Defence Minister
- (D) The Indian Parliament

Please Turn Over

41. In which of the following states are Garo, Khasi and Jaintia hills located?

- (A) Assam
- (B) Manipur
- (C) Arunachal Pradesh
- (D) Meghalaya

42. The first Indian to make a speech in Hindi before the UN General Assembly is

- (A) V.P. Singh
- (B) Indira Gandhi
- (C) Atal Behari Vajpayee
- (D) Sushma Swaraj

43. Where is Bose Institute located?

- (A) Mumbai
- (B) Kolkata
- (C) New Delhi
- (D) Chennai

44. The book "Poverty and Un-British Rule in India" was written by

- (A) Mahatma Gandhi
- (B) Madan Mohan Malviya
- (C) Bipin Chandra Pal
- (D) Dada Bhai Naoroji

45. Which of the following does not have red blood cells?

- (A) Snake
- (B) Peacock
- (C) Frog
- (D) Earthworm

46. Three of the following four are alike in a certain way and so form a group. Which of the following does not belong to this group?

- (A) Volcano
- (B) Storm
- (C) Hurricane
- (D) Cyclone

47. If 'M' denotes '+', 'N' denotes '÷', 'R' denotes '-', 'Q' denotes 'x', then

$$15M12Q5R40N8 = ?$$

- (A) 70
- (B) 130
- (C) 45
- (D) 60

48. Broti is 7th from the left and Munni is 5th from the right. When they interchange their positions, Munni becomes 19th from the right. What is Broti's position from the left?

- (A) 20th
- (B) 21st
- (C) 22nd
- (D) 23rd

49. 'The theory of Evolution' was developed by

- (A) Newton
- (B) Mendel
- (C) Darwin
- (D) Einstein

50. Alope earns more than Bijay and less than Netai. Rahil earns more than Alope and Netai. Biman earns more than only Bijay. Who earns the least among the five of them?

- (A) Biman
- (B) Bijay
- (C) Rahil
- (D) Cannot be determined

51. FSSAI has issued an advisory banning the use of which material for wrapping and packaging of food items?

- (A) Newspaper
- (B) Plastic
- (C) Polythene
- (D) None of the above

52. The temperature for gelatinization is about

- (A) 65° C
- (B) 70° C
- (C) 75° C
- (D) 80° C

53. Hydrogenation is the conversion of unsaturated acid groups into the saturated one by a catalyst _____.

- (A) Ti
- (B) Pb
- (C) Ni
- (D) Sn

54. What is the chemical or mechanical cleansing process called?

- (A) Sterilization
- (B) Disinfection
- (C) Decontamination
- (D) Sanitization

55. Esters like flavors in butter are resulted from the action of

- (A) *P. mephitica*
- (B) *Aeromonas hydrophila*
- (C) *P. fragi*
- (D) *Pseudomonas synxantha*

56. During the preservation of microbial cell culture _____.

- (A) Metabolism stops
- (B) Metabolism continues
- (C) Metabolism changes
- (D) Physiology changes

57. Glycerol is used for the synthesis of all except

- (A) Glucose
- (B) Phospholipid
- (C) Glycolipid
- (D) Triacylglycerol

58. Which is the common indicator organism used in the evaluation of drinking water?

- (A) *E.coli*
- (B) Fecal Coliform
- (C) Total Coliform
- (D) Algae

59. The only carbohydrate which is not having any chiral carbon atom is

- (A) Glyceraldehyde
- (B) Erythrose
- (C) Dihydroxyacetone
- (D) Erythrulose

60. What has been banned for tea bag products by FSSAI from 2018?

- (A) Use of stapler pins
- (B) Thread for dipping
- (C) Cloth bag containing the tea leaves
- (D) Herbal tea leaves

Please Turn Over

61. Disintegration of fat globules in homogenization is achieved by which of the following?

- (A) Turbulence
- (B) Cavitation
- (C) Turbulence and Cavitation
- (D) Pasteurization

62. Why is dietary fibre considered to be an active non-nutrient?

- (A) It has anti-inflammatory properties but is not stored as fat.
- (B) It is broken down in the body to provide energy.
- (C) It acts to stop LDL breaking apart.
- (D) It is not absorbed but is beneficial to the digestive system.

63. In steaming, a soaked paddy exposed to steam at a pressure of about

- (A) 2 kg/cm²
- (B) 3 kg/cm²
- (C) 4 kg/cm²
- (D) 5 kg/cm²

64. Which out of the followings is required as a coenzyme for the transamination reactions?

- (A) CoA
- (B) Pyridoxal Phosphate
- (C) Folic acid
- (D) Cobalamine

65. Which gas is used for artificial fruit ripening of green fruit?

- (A) Ethylene
- (B) Acetylene
- (C) Ethane
- (D) Methane

66. A process of contact and adhesion whereby the particles of a dispersion form large-size clusters is called _____.

- (A) Coagulation
- (B) Flocculation
- (C) Suspension
- (D) Sedimentation

67. Which of the following is an alpha lactone?

- (A) Vitamin C
- (B) Vitamin D
- (C) Vitamin A
- (D) Vitamin K

68. Recommended brix for syrup preparation is

- (A) 65–70
- (B) 70–80
- (C) 50–55
- (D) 40–50

69. Which of the following is *not* a cryoprotective agent?

- (A) DMSO
- (B) Glycerol
- (C) Ethylene Glycol
- (D) Paraffin Wax

70. The time temperature combination for HTST pasteurization of 71.1°C for 15sec is selected on the basis of

- (A) *Coxiella burnetti*
- (B) *E. Coli*
- (C) *B. subtilis*
- (D) *C. botulinum*

71. Which of the following is a must in food labelling?
- Name
 - Standard Specification
 - Place of Origin
 - All of the mentioned
72. Which of the following is the curing agent in the manufacture of pepperoni?
- Ground Cayenne pepper
 - Lactic acid
 - Sodium nitrate
 - All of the above mentioned
73. The glycosidic linkage in cellobiose is
- α -1-4
 - β -1-4
 - α -1-6
 - β -1-6
74. Which of the following is *not* a step in the process involved in dry milling of maize?
- Degermination
 - Sifting
 - Removal of moisture
 - Diluting
75. The enzyme used in fruit juice industry
- Pectin
 - Gelatin
 - Fixin
 - Bromalin
76. Statement 1: Jam cannot be made using pulp of more than one fruit.
Statement 2: Acid and Pectin content is more in over-ripe fruits than in under-ripe fruits.
- True, False
 - True, True
 - False, False
 - False, True
77. Which one of the following vitamins dissolves in water?
- D
 - Retinol
 - Thiamin
 - K
78. Which vegetable has a much higher protein content than the others?
- Potatoes
 - Spinach
 - Haricot beans
 - Turnips
79. Which of the following statements about allosteric enzymes is correct?
- Allosteric enzymes display Michaelis-Menten kinetics
 - Allosteric enzymes are usually single subunit enzyme
 - Allosteric enzymes control metabolism
 - Allosteric enzymes display hyperbolic kinetics in response to changes in substrate concentration
80. What is the chemical process that occurs when oxygen comes in contact with the flesh of cut fruit?
- Enzymatic browning
 - Mincing
 - Poaching
 - Deep frying

Please Turn Over

81. The Fed-batch culture is a/an _____ culture system.

- (A) open
- (B) closed
- (C) isolated
- (D) semi-closed

82. Which is the non-carbohydrate water insoluble dietary fibre?

- (A) Cellulose
- (B) Gums
- (C) Lignin
- (D) Mucilages

83. Which anti-microbial additive is used in cheese and cheese products?

- (A) Benzoic acid
- (B) Nitrite
- (C) Acetates
- (D) Sorbates

84. _____ has a net charge of zero at pH7.

- (A) Histidine
- (B) Glutamate
- (C) Aspartate
- (D) Lysine

85. Which of the following acid will have higher bacteriostatic effect at a given pH?

- (A) Acetic acid
- (B) Tartaric acid
- (C) Citric acid
- (D) Maleic acid

86. Sinigrin is present in

- (A) Mustard oil
- (B) Ricebran oil
- (C) Soyabean oil
- (D) Olive oil

87. Most spoilage bacteria grow at

- (A) acidic pH
- (B) alkaline pH
- (C) neutral pH
- (D) any of the pH

88. Black mold rot is caused by

- (A) *A. flavus*
- (B) *A. niger*
- (C) *Trichoderma*
- (D) *Trichothecium roseum*

89. What is the test used to select the type of coagulant required?

- (A) Bar test
- (B) Jar test
- (C) Stock test
- (D) Coagulant test

90. Mold inhibitor used in bread is

- (A) Calcium carbonate
- (B) Sodium chloride
- (C) Sodium/Calcium propionate
- (D) None of the above

91. In Azeotropic distillation _____ remains low.
- (A) heat
 - (B) volatility
 - (C) relative volatility
 - (D) None of the above
92. A brown colour in milk may result from
- (A) *Pseudomonas putrefaciens*
 - (B) the enzymatic oxidation of tyrosine by *P. fluorescens*
 - (C) Both (A) and (B)
 - (D) *S. marcescens*
93. The degree of unsaturation of lipid can be measured as _____.
- (A) Saponification number
 - (B) Iodine number
 - (C) Polenske number
 - (D) Reichert Meissil Number
94. Which organism can grow in highest concentration of sugar?
- (A) Molds
 - (B) Yeast
 - (C) Bacteria
 - (D) Algae
95. Aminopeptidases cleaves amino acids from
- (A) C-terminal end
 - (B) N-terminal end
 - (C) Both
 - (D) None
96. Tests for proper pasteurization are based on the activity of which enzyme?
- (A) Lactase
 - (B) Diastase
 - (C) Phosphatase
 - (D) Catalase
97. Legal butter must contain at least what percentage of fat?
- (A) 70%
 - (B) 80%
 - (C) 90%
 - (D) 95%
98. Yeast are most likely to grow in frozen fruits during
- (A) Slow thawing
 - (B) Refrigeration
 - (C) Ambient temperature
 - (D) High temperature
99. Proper flavour and aroma of coffee is associated with
- (A) drying coffee beans
 - (B) curing coffee beans
 - (C) roasting
 - (D) All of the above
100. Rancidity of lipids of lipid rich food stuffs is due to
- (A) Hydrogenation of unsaturated fatty acids.
 - (B) Reduction of fatty acids.
 - (C) Oxidation of fatty acids.
 - (D) Dehydrogenation of saturated fatty acids.

Space for Rough Work

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