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2022

TEST BOOKLET SERIES

TEST BOOKLET

Time allowed : 2 hours

Full marks : 200

Answer *all* the questions.

Questions are of equal value.

Serial No. **016261**

Roll No.:

Signature of the Candidate:

INSTRUCTIONS

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

1. Immediately after the commencement of the examination, you should check that this Test Booklet does not have any unprinted or torn or missing pages or questions, etc. if so, get it replaced by a complete Test Booklet.
2. This booklet consists of 12 pages including this front page.
3. Answer will have to be given in the Answer Sheet (OMR) supplied for the purpose.
4. Please note that it is the candidates' responsibility to encode and fill in the Roll Number and Test Booklet series (A/B/C/D) carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.
5. You have to enter your roll number on the rest Booklet in the Box provided. Do not write anything else on the Test Booklet.
6. This Test Booklet contains 100 questions of multiple-choice answer type. Each question comprises four answers. You will select the answer which you want to mark on the Answer Sheet. In case you feel that there is more than one correct answer, mark the answer, which you consider the best. In any case, choose **ONLY ONE** answer for each question.
7. **There are 100 questions carrying 2 (Two) marks each.**
8. Before you proceed to mark in the Answer Sheet, the answer to various questions in the Test Booklet, you have to fill in some particular in the Answer Sheet (OMR) as per instruction therein.
9. After you have completed filling in all your answers on the Answer Sheet (OMR) and the examination has concluded, you should hand over to the Invigilator only the Answer Sheet (OMR), you are permitted to take away with you the Test Booklet.
10. Sheet for rough work is appended in the Test Booklet at the end.
11. **Penalty for wrong answer:**
There will be penalties for wrong answer marked by the candidate in the objective type multiple-choice question papers.
 - (i) **There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidates, half (1/2) of the marks assigned to that question will be deducted as penalty.**
 - (ii) **If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above to that question.**
 - (iii) **If a question is left blank, i.e., no answer is given by the candidate, neither any mark will be awarded nor any penalty will be imposed.**
12. Candidates are not allowed to use Calculator, Pager, Mobile Phone or any other type of electronic gadget of communication in the Examination Hall.

DO NOT WRITE ANYTHING ON THIS PAGE

1. The synonym for the word 'Pristine' is
 (A) Prestigious
 (B) Unspoiled
 (C) Rotten
 (D) Defunct
2. Which latitude passes through the middle of India?
 (A) Equator
 (B) Arctic Circle
 (C) Tropic of Capricorn
 (D) Tropic of Cancer
3. If $x + \frac{1}{x} = 2$, the value of $x^8 + \frac{1}{x^8}$ is
 (A) 0
 (B) 27
 (C) 2
 (D) 72
4. If 3 cannons, firing 4 rounds in 6 minutes, kill 250 men in half an hour, the number of cannons firing 3 rounds in 5 minutes will kill 600 men in an hour is
 (A) 5
 (B) 4
 (C) 6
 (D) 8
5. The force between charged particles is
 (A) Centrifugal force
 (B) Gravitational force
 (C) Electromagnetic force
 (D) Nuclear force
6. The total surface area of a solid right circular cylinder of radius 5 cm. and height 10 cm. is
 (A) 150π sq. cm.
 (B) 100π sq. cm.
 (C) 160π sq. cm.
 (D) 75π sq. cm.
7. The H.C.F. of $2x^2 + 3x - 2$, $x^2 + 9x + 14$ and $3x^2 + 7x + 2$ is
 (A) $x + 3$
 (B) $x - 4$
 (C) $x + 2$
 (D) $x + 1$
8. 20 men can finish a work in 30 days working 18 hours per day. Working 9 hours per day, 30 men will finish it in
 (A) 35 days
 (B) 40 days
 (C) 45 days
 (D) 25 days
9. Which country is the world's largest producer and exporter of Palm Oil?
 (A) India
 (B) UAE
 (C) Indonesia
 (D) China
10. The 'Gandhara Art' flourished during
 (A) Kushana Period
 (B) Maurya Period
 (C) Sunga Period
 (D) Gupta Period
11. The sum of the simple interest of ₹ 950 for 4 years and of ₹ 1300 for 6 years, is ₹ 928. The rate of interest is
 (A) 8% p.a.
 (B) 5% p.a.
 (C) 6% p.a.
 (D) 10% p.a.
12. If $3x + 2y = 5$ and $2x - 3y = 12$ are satisfied simultaneously, the value of (x, y) is
 (A) $(-3, 2)$
 (B) $(3, 2)$
 (C) $(3, -2)$
 (D) $(1, -2)$

13. The verb 'Inherit' is derived from the word
 (A) Inher
 (B) Herit
 (C) Heir
 (D) None of the above
14. Two cubes of edge 14 cm each are joined end to end to form a cuboid. The total surface area of the cuboid is
 (A) 980 sq. cm
 (B) 1900 sq. cm
 (C) 1860 sq. cm
 (D) 1960 sq. cm
15. ₹ x will amount to ₹1380 in 3 years @5% p.a. simple interest. The value of x is
 (A) 1200
 (B) 1100
 (C) 1000
 (D) 1500
16. When is the United Nations Public Service Day observed every year?
 (A) 20th June
 (B) 21st June
 (C) 23rd June
 (D) 30th June
17. Total number of bones in a human body is
 (A) 205
 (B) 200
 (C) 204
 (D) 206
18. When did the British make English the medium of instruction in India?
 (A) 1813
 (B) 1833
 (C) 1835
 (D) 1836
19. I look for help from **above**.
 In this sentence the word 'above' is used as
 (A) Pronoun
 (B) Adjective
 (C) Preposition
 (D) Noun
20. 'Varuna' is the bilateral Naval Exercise between India and
 (A) Japan
 (B) China
 (C) USA
 (D) France
21. The idiom 'Swan Song' means
 (A) Sweet tune
 (B) The best performance by a singer
 (C) The last statement before death
 (D) The morning prayer
22. The idiom 'no love lost' used in the following sentence— "There is no love lost between them" means
 (A) Intimacy
 (B) Friendship
 (C) Not on good terms
 (D) Relation
23. The word 'Pacify' is the verb derived from the noun—
 (A) Pace
 (B) Pause
 (C) Peace
 (D) Calm
24. 'Thespian art' refers to
 (A) the art of tragedy
 (B) the art of history
 (C) the art of story telling
 (D) folk art

25. The idiom 'Fly in the face of' means
 (A) To move speedily
 (B) To Oppose anything in spite of great risk
 (C) To take lightly
 (D) To overcome a situation
26. In which of the following sentences, the wrong preposition has been used?
 (A) He trades with tea
 (B) He is true to his word
 (C) He is equal to the task
 (D) He is used to such hardships
27. In which year Germany did attack France during World War II?
 (A) 1942
 (B) 1943
 (C) 1939
 (D) 1940
28. The one-word substitute for the expression "fear of punishment" is
 (A) Heliophobia
 (B) Bibliophobia
 (C) Mastigophobia
 (D) None of the above
29. A clock takes 6 seconds to strike the hour at 6 o'clock. To strike the hour at 11 o'clock, it will take
 (A) 12 secs
 (B) 10 secs
 (C) 11 secs
 (D) 10.5 secs
30. The value of $\left(\frac{x^a}{x^b}\right)^{a+b} \cdot \left(\frac{x^b}{x^c}\right)^{b+c} \cdot \left(\frac{x^c}{x^a}\right)^{c+a}$ is
 (A) 2
 (B) 3
 (C) 1
 (D) 0
31. The simplest value of $40a - 4\{6a - \{8 - 4(a - 3)\}\}$ is
 (A) 80
 (B) $16a$
 (C) 50
 (D) $20a$
32. In which of the following parts of Indian Constitution, Fundamental Rights are included?
 (A) Part-I
 (B) Part-II
 (C) Part-III
 (D) Part-IV
33. The least squared number which is divisible by 10, by 16 and by 24 is
 (A) 3600
 (B) 2500
 (C) 4900
 (D) 14400
34. Select the correct statement from the followings:
 (A) I have a five hundred rupees note.
 (B) I have a five hundred rupee note.
 (C) I have a Five hundreds rupees note.
 (D) I have a Five hundreds rupee note.
35. Which type of Mahseer fish, has been moved out of the IUCN 'Endangered Red List'?
 (A) Himalayan Mahseer
 (B) Copper Mahseer
 (C) Golden Mahseer
 (D) Blue Finned Mahseer
36. 'Putola Nach' which was making news recently, is the traditional string puppetry art of which state?
 (A) Assam
 (B) Arunachal Pradesh
 (C) Uttarakhand
 (D) Odisha

37. 'To run across' means
 (A) To run suddenly
 (B) To meet someone by chance
 (C) To run without a destination
 (D) To expire suddenly
38. The word nearest in meaning to 'Sombre' is
 (A) Peaceful
 (B) Sad
 (C) Cheerful
 (D) Hopeless
39. If $\sin 2A = \cos (A + 30^\circ)$, the value of $\tan 3A$ is
 (A) $\frac{1}{\sqrt{3}}$
 (B) 1
 (C) $\sqrt{3}$
 (D) 0
40. Which of the following is the leading sediment transporting river in India?
 (A) Brahmaputra
 (B) Yamuna
 (C) Ganges
 (D) Indus
41. If $x = 9 + 4\sqrt{5}$, the value of $\sqrt{x} - \frac{1}{\sqrt{x}}$ is
 (A) 4
 (B) 2
 (C) 1
 (D) 0
42. A sells a bat to B at a profit of 4%. B sells it to C at a profit of 5%. If C buys it from B at ₹ 273, cost price of A is
 (A) ₹ 225
 (B) ₹ 260
 (C) ₹ 240
 (D) ₹ 250
43. A person who can speak in many languages is called
 (A) Polyglot
 (B) Linguist
 (C) Smart
 (D) Vocal
44. The Headquarters of the organisation of Petroleum Exporting Countries is _____.
 (A) Lagos
 (B) Kuwait
 (C) Geneva
 (D) Vienna
45. Which country first time for the fifty years has exported apples to India?
 (A) Brazil
 (B) China
 (C) USA
 (D) UK
46. From the top of a house 90m high, the angles of depression of the top and the bottom of a tower are found to be 30° and 60° respectively. The height of the tower is
 (A) 45m
 (B) 50m
 (C) 55m
 (D) 60m

47. Which institution launched the 'DSLISA Legal Aid Clinic', to provide free legal assistance to women?

- (A) UN Women
- (B) National Commission for Women
- (C) UNICEF
- (D) NITI Aayog

48. The square roots of $(5x+1)^2 - 20x$ are

- (A) $\pm(5x-1)$
- (B) $\pm(x-5)$
- (C) $\pm(5x-2)$
- (D) $\pm(5x-3)$

49. The compound interest of ₹ 800 for 3 years at $r\%$ p.a. is ₹126.10. The value of r is

- (A) 10
- (B) 6
- (C) 4
- (D) 5

50. Choose the correctly spelt word among the followings:

- (A) Comitee
- (B) Commite
- (C) Comitee
- (D) Committee

51. The least number which being increased by 3 will be exactly divisible by 24, 36 and 48; is

- (A) 161
- (B) 141
- (C) 151
- (D) 144

52. The principal rainy season for the Indian subcontinent, June to September, is referred to as which season?

- (A) South-West Monsoon
- (B) North-East Monsoon
- (C) Rainy Season
- (D) Autumn Season

53. Which state/ UT is said to host the 25th National Youth Festival in 2022?

- (A) Maharastra
- (B) Goa
- (C) Assam
- (D) Puducherry

54. 'Please sit by me'.

In the above sentence 'by' is used as

- (A) Preposition
- (B) Adverb
- (C) Adjective
- (D) Pronoun

55. Which of the following is a Trans-Himalayan river?

- (A) Ganga
- (B) Yamuna
- (C) Indus
- (D) Ravi

56. 0.6 of $C = 75\%$ of $B = \frac{2}{3}$ of A . Then

$A : B : C$ will be

- (A) 8 : 9 : 10
- (B) 6 : 7 : 8
- (C) 9 : 8 : 10
- (D) 5 : 7 : 9

57. Clove is obtained from

- (A) Flower-bud
- (B) Fruit
- (C) Stem
- (D) Leaf

58. The metal used to recover Copper from a solution of Copper Sulphate is

- (A) Sodium
- (B) Silver
- (C) Gold
- (D) Iron

59. The areas where monthly rainfall during October to December ranges 10 cm to 30 cm fall in

- (A) East-West of Tamil Nadu and Andhra Pradesh
- (B) Kerala and Karnataka
- (C) Jammu and Kashmir
- (D) Himachal Pradesh

60. Who first imposed Jizya Tax in India?

- (A) Alauddin Khalji
- (B) Aurangzeb
- (C) Akbar
- (D) Qutb-ud-din Aibak

61. Choose the word nearest in meaning to the word—'Canny'.

- (A) Clever
- (B) Stout
- (C) Handsome
- (D) Adament

62. The idiom, 'To laugh in one's sleeve' means

- (A) To cry
- (B) To laugh loudly
- (C) To laugh secretly
- (D) To laugh openly

63. On which of the following rivers the 'Hirakud' dam is located?

- (A) Mahanadi
- (B) Godavari
- (C) Krishna
- (D) Kaveri

64. If $3x-2y = 10$, the value of $27x^3-8y^3-180xy$ equals to

- (A) 900
- (B) 1800
- (C) 1000
- (D) 100

65. If the sum of 6 consecutive numbers be 69, the greatest one is

- (A) 11
- (B) 14
- (C) 12
- (D) 10

66. 'Anzac Day' is observed on which date of every year?

- (A) 1st April
- (B) 15th April
- (C) 25th April
- (D) 30th April

67. In which of the following States are the Ajanta caves situated?

- (A) Madhya Pradesh
- (B) Uttar Pradesh
- (C) Maharashtra
- (D) Karnataka

68. The largest number which divides ₹1290 and ₹930 exactly is

- (A) 25
- (B) 35
- (C) 36
- (D) 30

69. Coir, Copra, Coconut, Cashew are mainly exported from

- (A) Mumbai
- (B) Cochin
- (C) Tuticorin
- (D) Chennai

70. The one-word substitution for the expression "Speaking to oneself" is

- (A) Monologue
- (B) Analogue
- (C) Soliloquy
- (D) Chanting

71. In ΔPQR , $\angle P = 90^\circ$. PM is drawn perpendicular from P on QR. If $QM = 36$ cm and $MR = 13$ cm, the length of PQ is

- (A) 36 cm
- (B) 42 cm
- (C) 40 cm
- (D) 35 cm

72. Which war is associated with Florence Nightingale?

- (A) World War I
- (B) World War II
- (C) Crimean War
- (D) Battle of Leipzi

73. In ΔABC , $\angle B = 5 \cdot \angle C$ and $3 \cdot \angle C = \angle A$, the measure of $\angle B$ is

- (A) 90°
- (B) 100°
- (C) 60°
- (D) 80°

74. 'What is your name?'

In the above sentence the word 'What' has been used as

- (A) Adjective
- (B) Pronoun
- (C) Noun
- (D) Preposition

75. Water to be mixed with milk at ₹49.50 per litre to make the price of the mixture ₹45 per litre, in the ratio

- (A) 2 : 9
- (B) 3 : 7
- (C) 1 : 10
- (D) 4 : 7

76. Trirashmi Buddhist cave complex, where three new caves have been discovered, is located in which state?

- (A) Tamil Nadu
- (B) Maharashtra
- (C) Uttar Pradesh
- (D) Madhya Pradesh

77. The simplest value of

$$7\frac{1}{2} + \frac{1}{3} \div \frac{1}{4} \text{ of } \frac{1}{6} - \frac{3}{2} \times 1\frac{4}{5} \text{ is}$$

- (A) $12\frac{4}{5}$
- (B) $12\frac{2}{5}$
- (C) $10\frac{4}{5}$
- (D) $11\frac{1}{5}$

78. In history, who is regarded as 2nd Alexander?

- (A) Jalaluddin Khalji
- (B) Alauddin Khalji
- (C) Akbar
- (D) Aurangazeb

79. Fill in the blank with appropriate preposition:

The teacher was angry _____ the student.

- (A) against
- (B) upon
- (C) on
- (D) with

80. The gene is a functional unit of

- (A) Life
- (B) DNA
- (C) Cell
- (D) Chromosomes

81. Correct synonym of the word 'Lucid' is

- (A) Opaque
- (B) Solid
- (C) Clear
- (D) Hazy

82. The smallest number among 5 , $2\sqrt{3}$, $\sqrt{17}$ and $4\sqrt{2}$ is

- (A) $\sqrt{17}$
- (B) $2\sqrt{3}$
- (C) $4\sqrt{2}$
- (D) 5

83. Hase art, a unique painting style is a traditional art practised in which Indian state?

- (A) Kerala
- (B) Karnataka
- (C) Andhra Pradesh
- (D) West Bengal

84. Who is the First para-athlete to receive the 'Padmabhusan' award in India?

- (A) Debendra Jhajharia
- (B) Avani Lekhra
- (C) Bhavina Patel
- (D) Mariappan Thangavelu

85. The idiom 'Bright eyed and bushy tailed' denotes—

- (A) Clever
- (B) Angry
- (C) Egoistic
- (D) Lively

86. The idiom 'Kettle of fish' expresses

- (A) Quantum of fish in market
- (B) Ready to go to market
- (C) A peaceful situation
- (D) A troublesome situation

87. Which State is in the eastern most State of India?

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

88. Choose the incorrect portion in the following sentence.

The teacher (A) scolded the student (B) for his (C) lately attendance (D) everyday.

- (A) The teacher
- (B) scolded the student
- (C) for his
- (D) lately attendance

89. X-rays were discovered by

- (A) Rontgen
- (B) Thomson
- (C) Rutherford
- (D) Bacquerel

90. Neither of the report is true.

In the above mentioned sentence 'Neither' is used as

- (A) Pronoun
- (B) Adjective
- (C) Noun
- (D) Conjunction

91. When did the Jallianwala Bagh tragedy take place?

- (A) 1928
- (B) 1919
- (C) 1946
- (D) 1942

92. Income Tax in India was introduced by

- (A) James Wilson
- (B) William Jones
- (C) Mahavir Tyaggi
- (D) Nicholus Kaldor

93. The idiomatic expression 'By the skin of one's teeth' denotes

- (A) A hungry look
- (B) Uneasiness
- (C) Generously
- (D) Narrow escape

94. Who among the following authors wrote Sanskrit Grammar?

- (A) Panini
- (B) Kalidas
- (C) Manu
- (D) Banbhatta

95. Choose the word nearest to the opposite meaning of the underlined part of the following sentence:

Ram's report was at odds with that of Shyam.

- (A) Consistent with
- (B) Inconsistent with
- (C) As peculiar as
- (D) As simple as

96. Between the melting point and boiling point of a substance, the substance is a

- (A) Solid
- (B) Liquid
- (C) Gas
- (D) Crystal

97. ABC is an isosceles triangle where $AB = AC = 10$ cm. and $BC = 12$ cm. The area of the triangle is

- (A) 50 sq. cm.
- (B) 40 sq. cm.
- (C) 45 sq. cm.
- (D) 48 sq. cm.

98. Choose from the options the word opposite in meaning to the word 'Acrid'.

- (A) Livid
- (B) Rancid
- (C) Sweet
- (D) Bitter

99. Who wrote the book, 'Reminiscences of the Nehru Age'?

- (A) C. D. Deshmukh
- (B) Dr. P. C. Alexander
- (C) S. C. Rajgopalachari
- (D) M. O. Mathai

100. The past participle form of the verb 'Sing' is

- (A) Sang
- (B) Singed
- (C) Sung
- (D) Singen

Space for Rough Work