

SEAL

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Series :

a

Question Booklet No.

RT/LM/05/EXAM.

2024

Invigilator's Signature

Candidate's Signature

Time : 2 Hours

Maximum Marks : 100

ROLL NO.

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RT/LM/05/EXAM. 2024/12-a

SEAL

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1. Which of the following diplomatic events helped in boosting India-Middle East relations in 2024?
[A] Gulf Cooperation Summit
[B] India-Arab League Forum
[C] Middle East Peace Conference
[D] India-GCC Strategic Partnership
2. Which State of India has recently implemented a major water conservation scheme called 'Jalyukt Shivar Abhiyan'?
[A] Gujarat
[B] Rajasthan
[C] Maharashtra
[D] Tamil Nadu
3. Which important Indian personality's birth anniversary is celebrated as the 'National Youth Day'?
[A] Jawaharlal Nehru
[B] Sardar Vallabhbhai Patel
[C] Swami Vivekananda
[D] Subhas Chandra Bose
4. When did the television broadcasting start in India?
[A] 1947
[B] 1951
[C] 1959
[D] 1982
5. Why is August 23, 2024 considered a significant day in the history of space exploration in India?
[A] Launch of Chandrayaan-3
[B] First National Space Day celebration
[C] Establishment of ISRO
[D] Second Indian manned-mission to moon

6. Which of the following cultural initiatives is aimed to promote India's linguistic diversity?
[A] Bhasha Sangam Program
[B] National Translation Mission
[C] Digital Language Preservation Project
[D] Endangered Languages Preservation Mission
7. Which major reform has been introduced to the Indian education system recently?
[A] Mandatory self-defense classes
[B] Introduction of AI-assisted teaching
[C] Compulsory Mathematics education in higher levels
[D] Implementation of credit-based flexible degree programmes
8. Which of the following projects aims to connect Kolkata with Mizoram via Myanmar?
[A] Kaladan Multi-Modal Transit Project
[B] Amrit GIG Project
[C] Sivok-Rangpo Rail Link
[D] Brahmaputra Expressway
9. Which among the following northeastern States has emerged as a leader in organic farming practices?
[A] Assam
[B] Manipur
[C] Sikkim
[D] Meghalaya

10. Which innovative environmental policy has been introduced by India to improve air quality?

- [A] National Clean Air Programme
- [B] Green Mobility Initiative
- [C] Eco-Smart Cities Project
- [D] Air Quality Index Revamp

11. Which Indian space mission is aimed to study and explore the Sun?

- [A] Chandrayaan-4
- [B] Gaganyaan-2
- [C] Aditya-L1
- [D] Mangalyaan-2

12. Which of the following traditional sports from Manipur has gained major international recognition?

- [A] Kang
- [B] Mukna
- [C] Yubi Lakpi
- [D] Sagol Kangjei

13. In which year did India's first railway line begin its operations?

- [A] 1847
- [B] 1853
- [C] 1860
- [D] 1869

14. To which historical event is the 26th of July commemorated in India?

- [A] Martyr's Day
- [B] Constitution Day
- [C] Kargil Vijay Diwas
- [D] Consumer Day

15. What is the name of Government of India's initiative to revolutionize public service delivery through generative AI?

- [A] AI Bharat
- [B] BharatGen
- [C] Digital India AI
- [D] IndiaAI

16. Find the sentence which has a subject-verb agreement error.

- [A] The flock of geese are flying south for the winter.
- [B] Neither the students nor the teacher was late for the exam.
- [C] The committee has reached a unanimous decision.
- [D] Every dog and cat in the shelter needs a loving home.

17. Which among the following sentences has a **correct** subject-verb agreement?

- [A] The quality of the apples were exceptional this year.
- [B] A variety of tropical fruits is available at the local market.
- [C] The groups of tourist, along with their guide, is exploring the ancient ruins.
- [D] Each of the candidates has unique qualification for the position.

18. Which of the following sentences uses the **correct** preposition?

- [A] The chief is allergic with peanuts.
- [B] We are excited for the upcoming concert next month.
- [C] She has been working at this company since five years.
- [D] The suspect was accused for committing multiple crimes.



19. Which of the following sentences demonstrates the **correct** pronoun usage?

- [A] Between you and I, the project seems doomed to fail.
- [B] The committee made their decision after careful deliberation.
- [C] Whom should we contact regarding the scheduling issue?
- [D] Sarah and myself will be attending the conference next week.

20. Which of the following sentences contains an error in pronoun usage?

- [A] The team, despite their best efforts, failed to meet the project deadline.
- [B] It is they who deserve the credit for the successful fundraising campaign.
- [C] To whom should I address this complaint about the faulty product?
- [D] The professor asked my colleague and I to present our research findings.

21. Which of the following sentences contains **incorrect** punctuation?

- [A] The chef's signature dish : a balance of flavors, textures, and aromas.
- [B] "I can't believe it's already Friday!" Sarah exclaimed.
- [C] I need to carry: books, pens, pencil, and erasers to the room.
- [D] The creaky table stood at the end of the room.

22. Identify the sentence with **incorrect** punctuation.

- [A] My favorite seasons are spring and fall; I love the mild temperatures.
- [B] The museum houses artefacts from ancient Egypt, Greece, and Rome.
- [C] "Where did you put my keys?" he asked, "I can't find them anywhere."
- [D] The company's new policy — effective immediately — requires all employees to wear ID badges.

23. Which of the following sentences has **correct** punctuation?

- [A] The concert featuring classical, jazz and rock music, will be held next weekend.
- [B] She whispered, "Don't forget to lock the door".
- [C] The package arrived late; however it was undamaged.
- [D] We visited Paris, France; Rome, Italy; and London, England on our European tour.

24. Choose the **correct** synonym for the word 'ephemeral' from the alternatives given below.



- [A] Eternal
- [B] Transient
- [C] Substantial
- [D] Enduring

25. Choose the **correct** synonym for the word 'surreptitious' from the alternatives given below.

- [A] Clandestine
- [B] Obvious
- [C] Boisterous
- [D] Forthright

26. Choose the **correct** antonym for the word 'frugal' from the alternatives given below.

- [A] Thrifty
- [B] Economical
- [C] Extravagant
- [D] Prudent

27. Choose the **correct** antonym for the word 'ameliorate' from the alternatives given below.

- [A] Improve
- [B] Aggravate
- [C] Alleviate
- [D] Enhance



28. What does the idiom 'to have a chip on one's shoulder' mean?

- [A] To carry a small piece of wood as a good luck charm
- [B] To have a minor injury that causes discomfort
- [C] To be angry all the time caused by a belief that one has been treated unfairly
- [D] To feel superior to others in a particular skill

29. Which of the following sentences **correctly** uses the 'past continuous tense'?

- [A] While I was cooking dinner, the phone rang.
- [B] As we drove to the airport, we realized we forgot our passports.
- [C] The children were play in the park when it started to rain.
- [D] She has been reading the book when her friend arrived.

30. Which of the following sentences demonstrates the proper use of the 'past perfect tense'?

- [A] By the time we reached the station, the train had already left.
- [B] She had been to Paris three times before she moved there.
- [C] They have had finished their homework before watching TV.
- [D] I wished I studied harder for the exam.

31. If $\frac{4753}{9900} = 0.A\bar{B}\bar{C}\bar{D}$, then the value of $A + B - C + D$ is

- [A] 15
- [B] 13
- [C] 14
- [D] 10

32. A sells an article to B at a profit of 10%. B sells the article back to A at a loss of 10%. In this transaction

- [A] A makes a profit of 11%
- [B] A makes a profit of 25%
- [C] B loses 25%
- [D] A neither loses nor gains

33. The value of $\frac{14\%}{7\%}$ is

- [A] 2%
- [B] 20%
- [C] 200%
- [D] 2000%

34. 40 men working 8 hours per day can dig a pond in 18 days. By working how many hours per day can 36 men dig the same pond in 20 days?

- [A] 6 hours
- [B] 7 hours
- [C] 5 hours
- [D] 8 hours

35. If the average of 5 consecutive numbers is 50, then the difference between 'product of largest and smallest number' with 'product of fourth and second number' is

- [A] 3
- [B] 0
- [C] -3
- [D] 12

36. The least number which should be added to 2497 so that the sum is exactly divisible by 5, 6, 4 and 3 is

- [A] 4
- [B] 13
- [C] 23
- [D] 33



37. The HCF of 144, 360 and 504 is

- [A] 24
- [B] 36
- [C] 18
- [D] 72

38. What is the average of all numbers between 11 and 80 which are divisible by 6?

- [A] 45
- [B] 48
- [C] 43
- [D] 49

39. The ratio of two numbers is 7 : 11 and their LCM is 462. What is the difference between these two numbers?

- [A] 22
- [B] 24
- [C] 28
- [D] 30

40. Which among $2^{\frac{1}{2}}$, $3^{\frac{1}{3}}$, $4^{\frac{1}{4}}$, $6^{\frac{1}{6}}$ and $12^{\frac{1}{12}}$ is the largest?

- [A] $2^{\frac{1}{2}}$
- [B] $3^{\frac{1}{3}}$
- [C] $4^{\frac{1}{4}}$
- [D] $12^{\frac{1}{12}}$

41. The LCM of 2.5, 0.5 and 0.175 is

- [A] 2.5
- [B] 6.5
- [C] 5
- [D] 17.5

42. A shopkeeper sells one table for ₹ 840 at a gain of 20% and another for ₹ 960 at a loss of 4%. His total gain or loss percent is

- [A] $6\frac{15}{17}\%$ loss
- [B] $5\frac{15}{17}\%$ gain
- [C] $7\frac{16}{17}\%$ gain
- [D] $6\frac{2}{3}\%$ loss

43. 125% of 860 + 75% of 480 is

- [A] 1416
- [B] 1536
- [C] 1435
- [D] 1545

44. A train 270 meters long running at a speed of 36 km/h will cross a bridge of length 180 meters in

- [A] 42 seconds
- [B] 45 seconds
- [C] 55 seconds
- [D] 36 seconds

45. A person covers 40% of the distance from A to B at 8 km/h, 40% of the remaining distance at 9 km/h and the rest at 12 km/h. His average speed (in km/h) for the journey is

- [A] $10\frac{5}{8}$
- [B] $7\frac{1}{3}$
- [C] $9\frac{3}{8}$
- [D] $8\frac{2}{3}$

46. If a sum doubles in 16 years at simple interest, then how many times will it be in 8 years?

- [A] $1\frac{1}{2}$ times
- [B] $1\frac{1}{3}$ times
- [C] $1\frac{1}{4}$ times
- [D] $1\frac{3}{4}$ times

47. The population of a village decreases at the rate of 20% per annum. If its population 2 years ago was 10000, then the present population is

- [A] 4600
- [B] 6400
- [C] 6600
- [D] 6500

48. At what rate percent per annum will a sum of ₹ 15,625 amount to ₹ 21,952 in three years, if the interest is compounded annually?



- [A] 15%
- [B] 12%
- [C] 10%
- [D] 8%

49. A sum amounts to ₹ 7,562 in 4 years and ₹ 8,469.44 in 5 years at a certain rate percent per annum, when the interest is compounded annually. The rate of interest is

- [A] 8%
- [B] 12%
- [C] 15%
- [D] 18%

50. The angle of elevation of a ladder leaning against a wall is 60° and the foot of the ladder is 4.6 m away from the wall. The length of the ladder is

- [A] 2.2 m
- [B] 8.5 m
- [C] 7.6 m
- [D] 9.2 m

51. If the angle of elevation of a cloud from a point 200 m above a lake is 30° and the angle of depression of the reflection of the cloud in the lake from the same point is 60° , then the height of the cloud above the lake is

- [A] 200 m
- [B] 400 m
- [C] 300 m
- [D] 500 m

52. A and B can do a piece of work in 30 days. B and C can do the same work in 24 days and C and A in 20 days. They all work together for 10 days, then B and C leave. How many days more will A take to finish the remaining work?

- [A] 18 days
- [B] 22 days
- [C] 32 days
- [D] 40 days

53. Twenty women can do a work in 16 days. 16 men can complete the same work in 15 days. What is the ratio between the capacities of a man and a woman?

- [A] 3 : 4
- [B] 4 : 3
- [C] 5 : 3
- [D] 3 : 5

54. The sum of three numbers is 116. The second number and the third number are in the ratio of 9 : 16, while the first number and the third number are in the ratio of 1 : 4. Find the second number.

- [A] 9
- [B] 16
- [C] 66
- [D] 36

55. If the median of 7, 5, 8, x , 12 and 17 is 10, then what is the value of x ?

- [A] 11
- [B] 12
- [C] 13
- [D] 15

56. The mode of the data 3, 5, 7, 5, 5, 5, 8, 9, 9, 9, 9, 9, 6, 6, 7, 8, 7, 7, 7, 5, 5, 5, 5, 5, 8, 5, 5 is

- [A] 7
- [B] 9
- [C] 8
- [D] 5

57. If $x = 997$ and $y = 998$ and $z = 999$, then the value of $x^2 + y^2 + z^2 - xy - yz - zx$ is

- [A] 0
- [B] 1
- [C] 3
- [D] 2

58. If $a(a + b + c) = 45$, $b(a + b + c) = 75$ and $c(a + b + c) = 105$, then the value of $a^2 + b^2 + c^2$ is

- [A] 83
- [B] 225
- [C] 625
- [D] 90

59. The value of

$$\frac{(0.943 \times 0.943 - 0.943 \times 0.057 + 0.057 \times 0.057)}{(0.943 \times 0.943 \times 0.943 + 0.057 \times 0.057 \times 0.057)}$$

is

- [A] 1
- [B] 0.32
- [C] 0.886
- [D] 1.1286

60. The number 0.12121212... in the form

$\frac{p}{q}$ is equal to

- [A] $\frac{2}{11}$
- [B] $\frac{4}{11}$
- [C] $\frac{2}{33}$
- [D] $\frac{4}{33}$

61. If the radius of the Earth were to shrink by one percent (its mass remaining the same), then the acceleration due to gravity on the Earth's surface

- [A] would decrease
- [B] would increase
- [C] remain unchanged
- [D] Cannot be predicted

62. The weight of a body at the Earth's surface is W . At a depth halfway to the centre of the Earth, it will be (assuming uniform density in earth)

- [A] W
- [B] $W/2$
- [C] $W/4$
- [D] $W/6$

63. If a bimetallic strip is heated, it will

- [A] bend towards the metal with lower value of α
- [B] bend towards the metal with higher value of α
- [C] twist itself into helix
- [D] have no bending

64. The change in temperature of a body is 50°C . The change in temperature on the Kelvin scale is

- [A] 70 K
- [B] 30 K
- [C] 50 K
- [D] 323 K

65. The mass of the moon is about 1.2% of the mass of the Earth. Compared to the gravitational force the Earth exerts on the moon, the gravitational force the moon exerts on the Earth

- [A] is the same
- [B] is smaller
- [C] is greater
- [D] varies with its phase

66. Water reservoirs are made thicker at the bottom rather than at the top, because
- [A] water is denser at the bottom
 - [B] pressure is greater at the bottom
 - [C] potential energy of water is greater at the bottom
 - [D] kinetic energy of water is greater at the bottom
67. Clouds float in the atmosphere on account of their
- [A] low density
 - [B] low viscosity
 - [C] low temperature
 - [D] creation of low pressure
68. The restoring force f on a particle of mass m executing simple harmonic motion is given by $f = -kx$, where x is the displacement and k is spring constant. Then, its angular velocity is
- [A] $\sqrt{m/k}$
 - [B] mk
 - [C] $\frac{1}{2}\pi\sqrt{k/m}$
 - [D] $\sqrt{k/m}$
69. A force vector $\vec{F} = 6\hat{i} - 8\hat{j} + 10\hat{k}$ N applied on a body produces an acceleration of 1 ms^{-2} . What will be the mass of the body?
- [A] $10\sqrt{2}$ kg
 - [B] $2\sqrt{10}$ kg
 - [C] 10 kg
 - [D] 20 kg
70. The units of impulse are the same as those of
- [A] energy
 - [B] momentum
 - [C] power
 - [D] velocity
71. Which type of humidity is expressed as a percentage of the maximum amount of water vapor that air can hold at a given temperature?
- [A] Absolute humidity
 - [B] Dew point
 - [C] Relative humidity
 - [D] Specific humidity
72. The coefficients of linear expansion of brass and steel are α_1 and α_2 respectively. If we take a brass rod of length l_1 and steel rod of length l_2 at 0°C , the difference in their lengths (l_1 and l_2) will remain the same at all temperatures, if
- [A] $\alpha_1 l_1 = \alpha_2 l_2$
 - [B] $\alpha_1 l_2 = \alpha_2 l_1$
 - [C] $\alpha_1^2 l_1 = \alpha_2^2 l_2$
 - [D] $\alpha_1^2 l_1 = \alpha_2 l_2^2$
73. An electric dipole placed in a non-uniform electric field experiences
- [A] both a torque and a net force
 - [B] only a force but no torque
 - [C] only a torque but no force
 - [D] no torque and no net force

74. A hollow sphere of charge **does not** produce an electric field

- [A] at any outer point
- [B] at any interior point
- [C] beyond 2 m
- [D] beyond 10 m

75. An electric field varies as r^{-3} due to

- [A] a point charge
- [B] an infinite line charge
- [C] an electric dipole
- [D] an infinite plane sheet of charge



76. A circular coil of radius R carries an electric current. The magnetic field due to the coil at a point on the axis of the coil is located at a distance r from the centre of the coil, such that $r \gg R$, varies as

- [A] $1/r$
- [B] $1/r^{3/2}$
- [C] $1/r^2$
- [D] $1/r^3$

77. Which of the following statements is **not correct** about the magnetic field?

- [A] Magnetic lines of force do not cut each other.
- [B] Inside the magnet, the lines go from north to south pole of the magnet.
- [C] The magnetic lines form a closed loop.
- [D] Tangents to the magnetic lines give the direction of magnetic field.

78. The magnetic field $d\vec{B}$ due to a small current element $d\vec{l}$ at a distance \vec{r} and element carrying current I is

[A] $d\vec{B} = \frac{\mu_0 I d\vec{l} \times \vec{r}}{4\pi r^4}$

[B] $d\vec{B} = \frac{\mu_0 I d\vec{l} \times \vec{r}}{4\pi r^2}$

[C] $d\vec{B} = \frac{\mu_0 I d\vec{l} \times \vec{r}}{4\pi r^3}$

[D] $d\vec{B} = \frac{\mu_0 I d\vec{l} \times \vec{r}}{4\pi r^4}$

79. When a body sinks in a liquid, the weight of the body is

- [A] more than the volume of the body
- [B] less than the volume of the body
- [C] less than the buoyant force
- [D] more than the buoyant force

80. When a stone is tied to a string and whirled in a circle, the work done by the string is

- [A] positive
- [B] negative
- [C] zero
- [D] Not defined

81. Convert the temperature of 25°C to the Kelvin scale.

- [A] 273 K
- [B] 298 K
- [C] 300 K
- [D] 310 K

82. The chemical symbol of the element Sodium is based on which of the following names?
- [A] Natrium
 - [B] Ferrum
 - [C] Aurum
 - [D] Plumbum
83. Brass is a mixture of
- [A] Aluminium and Tin
 - [B] Copper and Zinc
 - [C] Gold and Platinum
 - [D] Silver and Tin
84. Identify the diatomic molecule from the following.
- [A] P_4
 - [B] O_3
 - [C] HCl
 - [D] He
85. The molecular formula of glucose is $C_6H_{12}O_6$. Its molecular mass in a.m.u. (atomic mass unit) is
- [A] 172
 - [B] 180
 - [C] 185
 - [D] 190
86. The absolute charge of an electron is
- [A] 1.6×10^{-19} coulomb
 - [B] 2.6×10^{-22} coulomb
 - [C] 3.6×10^{-29} coulomb
 - [D] 3.0×10^{-39} coulomb
87. An atom of an element has 11 protons, 11 electrons and 12 neutrons. The atomic mass of the atom is
- [A] 22
 - [B] 23
 - [C] 25
 - [D] 34
88. Gases can be liquefied by
- [A] increasing the pressure and lowering temperature
 - [B] decreasing the pressure and lowering temperature
 - [C] decreasing the pressure and increasing temperature
 - [D] increasing the pressure and increasing temperature
89. Vinegar is a solution of
- [A] maleic acid in water
 - [B] ascorbic acid in water
 - [C] citric acid in water
 - [D] acetic acid in water
90. One mole of atoms contains
- [A] 6.023×10^{18} atoms
 - [B] 6.023×10^{23} atoms
 - [C] 3.023×10^{33} atoms
 - [D] 1.023×10^{20} atoms
91. The physical state of water at 0°C is
- [A] gas
 - [B] liquid
 - [C] both liquid and solid
 - [D] solid

92. The pressure of a gas $A(P_A)$ is 3.0 atm when it occupies 5.0 L of volume. Calculate the final pressure when it is compressed to 3 L volume at constant temperature.
- [A] 5 atm
[B] 8 atm
[C] 12.5 atm
[D] 20 atm
93. The arrangement of elements in the Modern (long form) periodic table is based on which of the following?
- [A] Atomic masses
[B] Atomic numbers
[C] Number of electrons
[D] Number of neutrons
94. The Group 17 (or VIIA) elements in Modern (long form) periodic table are known as
- [A] alkali metals
[B] alkaline earth metals
[C] halogens
[D] noble gases
95. Which of the following is a metalloid?
- [A] Lithium
[B] Cadmium
[C] Silicon
[D] Bromine
96. The process of extracting the metal from its ore is called
- [A] refining
[B] concentration
[C] leaching
[D] metallurgy
97. Baking soda is
- [A] $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$
[B] Na_2SO_4
[C] NaHCO_3
[D] CaCO_3
98. In CH_4 (Methane), the carbon undergoes which of the following hybridizations?
- [A] sp
[B] sp^2
[C] sp^3
[D] sp^3d
99. The IUPAC name of the compound $(\text{CH}_3)_3\text{C} - \text{CH} = \text{CH}_2$ is
- [A] 3,3,3-trimethyl-1-propene
[B] 1,1,1-trimethyl-3-propene
[C] 3,3-dimethyl-1-butene
[D] 1,1-dimethyl-3-butene
100. The general formula of alkane is
- [A] C_nH_{2n}
[B] $\text{C}_n\text{H}_{2n+2}$
[C] $\text{C}_n\text{H}_{2n+1}$
[D] $\text{C}_n\text{H}_{2n-2}$

SPACE FOR ROUGH WORK



**FINAL ANSWER KEY OF RECRUITMENT TEST CONDUCTED ON 20-10-2024 FOR THE POST
INSPECTOR(LEGAL METROLOGY & CONSUMER AFFAIRS)-2024**

SET - A

Question No.	Answer Key
1	D
2	C
3	C
4	C
5	B
6	A
7	D
8	A
9	C
10	A
11	C
12	D
13	B
14	C
15	B
16	A
17	B,D
18	B
19	C
20	D
21	C
22	C
23	D
24	B
25	A
26	C
27	B
28	C
29	A
30	A
31	B
32	A
33	C
34	D
35	C
36	C

Question No.	Answer Key
37	D
38	A
39	B
40	B
41	D
42	B
43	C
44	B
45	C
46	A
47	B
48	B
49	B
50	D
51	B
52	A
53	B
54	D
55	B
56	D
57	C
58	A
59	A
60	D
61	B
62	B
63	A
64	C
65	A
66	B
67	A
68	D
69	A
70	B
71	C
72	A

Question No.	Answer Key
73	A
74	B
75	C
76	D
77	B
78	C
79	D
80	C
81	B
82	A
83	B
84	C
85	B
86	A
87	B
88	A
89	D
90	B
91	C
92	A
93	B
94	C
95	C
96	D
97	C
98	C
99	C
100	B