

DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

इस पुस्तिका की सील तब तक न खोले जब तक कहा न जाए

A

POST CODE / पोस्ट कोड: 02/08, 02/14,
03/14, 04/14, 08/14, 11/14, 12/14, 17/14,
20/14, 23/14, 24/14, 25/14, 26/14, 27/14,
31/14, 35/14, 36/14, 37/14, 38/14, 70/14,
73/14, 74/14, 75/14, 78/14, 79/14, 80/14,
83/14, 85/14, 88/14, 89/14, 95/14, 145/14

JDD-6/H/X-14

Serial No.

Write here Roll number and Answer-Sheet No.

यहाँ क्रमांक एवं उत्तर-पत्रिका संख्या लिखें

INT 009829

Roll No./ अनुक्रमांक

Answer-Sheet No./ उत्तर-पत्रिका संख्या

Time Allowed : 1 hour

निर्धारित समय : 1 घंटे

OBJECTIVE TYPE SCREENING TEST

वस्तुनिष्ठ स्क्रीनिंग परीक्षा

Maximum Marks : 100

अधिकतम अंक : 100

Read the following instructions carefully before you begin to answer the questions.

प्रश्नों के उत्तर देने से पहले नीचे लिखे अनुदेशों को ध्यान से पढ़ लें।

IMPORTANT INSTRUCTIONS TO CANDIDATES

1. This Booklet contains 100 questions in all comprising the following Sections :

Sl. No.	Test Components	No. of Questions	Page No.
i)	General Awareness	20	4 - 7
ii)	General Intelligence and Reasoning Ability	20	8 - 13
iii)	Arithmetical and Numerical Ability	20	14 - 17
iv)	Test of General Science	20	18 - 21
v)	Test of Language : English	20	22 - 23

2. All questions are compulsory and carry equal marks.
3. The paper carries negative markings. For each wrong answer 0.25 marks will be deducted.
4. In case of any discrepancy between the English and Hindi versions of any question, the English version will be treated as final/authentic.
5. OMR Answer-Sheet is enclosed in this Booklet. You must complete the details of Roll Number, Question Booklet No., etc., on the Answer-Sheet and Answer-Sheet No. on the space provided above in this Question Booklet, before you actually start answering the questions, failing which your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark.
6. You must not tear off or remove any sheet from this Booklet. The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.
7. Use of Calculator/Palmtop/Laptop/Other Digital Instrument/ Mobile/Cell Phone/Pager is not allowed.
8. Candidates found guilty of misconduct/using unfair means in the Examination Hall will be liable for appropriate penal/legal action.
9. The manner in which different questions are to be answered has been explained at the back of this Booklet, which you should read carefully before actually answering the questions.
10. No Rough Work is to be done on the Answer-Sheet.

उम्मीदवारों के लिए महत्वपूर्ण अनुदेश

1. इस पुस्तिका में कुल 100 प्रश्न हैं, जिनमें निम्नलिखित भाग शामिल हैं :

क्रमांक	परीक्षण विषय	प्रश्नों की संख्या	पृष्ठ क्रमांक
i)	सामान्य जानकारी	20	4 - 7
ii)	सामान्य बुद्धिमत्ता तथा तार्किक योग्यता	20	8 - 13
iii)	अंकगणितीय एवं संख्यात्मक योग्यता	20	14 - 17
iv)	सामान्य विज्ञान परीक्षा	20	18 - 21
v)	भाषा परीक्षण : अंग्रेजी	20	22 - 23

2. सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं।
3. प्रश्न पत्र में नकारात्मक अंकन होगा। हर गलत उत्तर के लिए 0.25 अंक काटा जायेगा।
4. यदि किसी प्रश्न के हिन्दी तथा अंग्रेजी अनुवाद में कोई अंतर है तो अंग्रेजी अनुवाद को ही सही समझा जायेगा।
5. इस उत्तर-पुस्तिका में ओ.एम.आर. उत्तर-पत्रिका संलग्न है। प्रश्नों के उत्तर वास्तव में शुरू करने से पहले आप उत्तर-पत्रिका में अपना रोल नम्बर, प्रश्न पुस्तिका संख्या, इत्यादि तथा इस प्रश्न पुस्तिका में उपरोक्त दिए गए स्थान पर उत्तर-पत्रिका की संख्या लिखें। अन्यथा आपकी उत्तर-पत्रिका को जाँचा नहीं जायेगा और शून्य अंक दिया जायेगा।
6. इस पुस्तिका से कोई पन्ना फाड़ना या अलग करना मना है। परीक्षा-भवन छोड़ने से पहले उत्तर-पत्रिका निरीक्षक के हवाले कर दें।
7. कैलकुलेटर/पामटॉप/लैपटॉप/अन्य डिजिटल उपकरण/मोबाइल/सेल फोन/ पेजर का उपयोग वर्जित है।
8. परीक्षा-भवन में अनुचित व्यवहार एवं कार्य के लिए दोषी पाये गये अभ्यर्थी युक्तिसंगत दंडनीय/वैधानिक कार्यवाही के पात्र होंगे।
9. विभिन्न प्रश्नों के उत्तर देने की विधि इस पुस्तिका के पीछे छपे हुए निर्देशों में दी गई है, इसे आप प्रश्नों के उत्तर देने से पहले ध्यानपूर्वक पढ़ लें।
10. कोई रफ कार्य उत्तर-पत्रिका पर नहीं करना है।

Go through instructions given in Page No. 24 (Back Cover Page)

A*

-1-



i) General Awareness

1. International Workers' Day is celebrated on
(A) April 14 (B) May 1
(C) August 1 (D) May 10
2. Expansion of IAS is
(A) Indian Administrative Service
(B) Indian Administration Service
(C) Indian Administrator's Service
(D) Indian Admiration Service
3. Security Council of UNO consists of _____ permanent members.
(A) 3 (B) 4
(C) 5 (D) 6
4. Srinivas Ramanujan was a great
(A) Lawyer
(B) Mathematician
(C) Medical Practitioner
(D) Film Star
5. State of Goa has _____ districts.
(A) 2 (B) 3
(C) 4 (D) 5
6. "Wings of Fire" is a book authored by
(A) Atal Bihari Vajpayee
(B) Amit Chaudhary
(C) A. P. J. Abdul Kalam
(D) Girish Karnad
7. Kathakali is a dance form of
(A) Karnataka
(B) Kerala
(C) Tamil Nadu
(D) Andra Pradesh
8. The First Battle of Panipat was fought between the forces of
(A) Akbar and Hemu
(B) Abdali and the Marathas
(C) Humayun and Sher Shah Suri
(D) Babur and Ibrahim Lodi
9. Former Delhi Chief Minister Ms. Sheela Dikshit was sworn in as the Governor of _____ on March 11, 2014.
(A) Kerala
(B) Tamil Nadu
(C) Maharastra
(D) Andra Pradesh
10. The immortal national song Vande Mataram has been written by
(A) Rabindranatha Tagore
(B) Sarojini Naidu
(C) Bankim Chandra Chattopadhyaya
(D) Sharat Chandra Chattopadhyaya



11. Bhagavadgita is included in the Indian epic
 (A) Ramayana
 (B) Mahabharata
 (C) Brihadayana
 (D) None of these
12. Mudumalai Wildlife Sanctuary is located in the state of
 (A) Kerala
 (B) Karnataka
 (C) Tamil Nadu
 (D) Andhra Pradesh
13. Crossing on a cheque can be cancelled by the _____ of the cheque, under his full signature.
 (A) payee
 (B) drawer
 (C) drawee
 (D) holder
14. Which of the following terms is used in the game of cricket ?
 (A) Leg-bye
 (B) Smash
 (C) Deuce
 (D) Love
15. Who is the present National President of the Bharatiya Janata Party ?
 (A) Atal Bihari Vajpayee
 (B) Narendra Modi
 (C) Rajnath Singh
 (D) Sonia Gandhi
16. Which of the following cities is known as Electronic City in India ?
 (A) Mumbai
 (B) Hyderabad
 (C) Bangalore
 (D) Gurgaon
17. The world famous Ajanta Caves are situated in the state of
 (A) Madhya Pradesh
 (B) Maharashtra
 (C) Karnataka
 (D) Orissa
18. First Governor General of India, after independence was
 (A) Jawaharlal Nehru
 (B) Rajendra Prasad
 (C) Climent Atlee
 (D) Lord Mountbatten
19. Whose Samadhi (place of cremation) in Delhi is called Raj Ghat ?
 (A) Mahatma Gandhi
 (B) Jawaharlal Nehru
 (C) Lal Bahadur Shasthri
 (D) Indira Gandhi
20. With which of the following was Satyajit Ray associated ?
 (A) Cricket
 (B) Classical dance
 (C) Direction of films
 (D) Banking

JDD-6/H/X-14



ii) General Intelligence and Reasoning Ability

Directions (Qs. 21 to 25) : Select the related word/letters/number from the given alternatives.

21. AND : DNA :: LEN : ?

(A) PEN

(B) ENL

(C) ELN

(D) NEL

22. Coconut : Oil :: Fruit : ?

(A) Taste

(B) Juice

(C) Bunch

(D) Sweet

23. Coffee : Caffeine :: Tobacco : ?

(A) Alexin

(B) Tanin

(C) Nicotin

(D) Novocaine

24. 13 : 169 :: 7 : ?

(A) 10

(B) 40

(C) 49

(D) 77

25. Friend : Enemy :: ?

(A) Internal : Interior

(B) Small : Brief

(C) Bring : Brought

(D) First : Last

Directions (Qs. 26 to 28) : Select the one which is different from the other three responses.

26. (A) 256

(B) 36

(C) 1000

(D) 196

27. (A) Profit-Gain

(B) Debit-Credit

(C) Assets-Liabilities

(D) Income-Expenditure

JDD-6/H/X-14



28. (A) Copper

(B) Mercury

(C) Steel

(D) Brass

29. Ajit was born 5 years before Rajesh, Rajesh is 3 years younger to Aneesh. If Ajit is now 17 years old, how old is Aneesh ?

(A) 12 years

(B) 15 years

(C) 19 years

(D) 8 years

30. Some questions are solved on the basis of a certain system. On the same basis, find out the correct answer for the unsolved question.

If $8 \times 5 = 04$, $8 \times 2 = 61$, what is $8 \times 10 = ?$

(A) 80

(B) 0

(C) 08

(D) None of these

31. Sathish is shorter than Ganesh but taller than Rakesh. Mahesh is the tallest. Aneesh is a little shorter than Ganesh and little taller than Sathish. If they stand in the order of increasing heights, who will be the second ?

(A) Sathish

(B) Ganesh

(C) Rakesh

(D) Aneesh

32. Which of the following words will appear fourth in the dictionary ?

(A) Sanction

(B) Sanitation

(C) Sanskrit

(D) Sanctity

33. If you can write SCHOOL as TDIPPM, how can you write COLLEGE ?

(A) DPMMFGE

(B) DNMMOEF

(C) DPPDHIF

(D) DPMMFHF



34. Arun said, pointing to Kiran, "His father is my father's only son". How is Arun related to Kiran ?

- (A) Grandson
- (B) Grandfather
- (C) Son
- (D) Father

35. Select the correct combination of mathematical signs to replace * signs and to balance the given equation.

$$12 * 7 * 4 * 21$$

- (A) $\times = \div$
- (B) $\times \div =$
- (C) $\div = \times$
- (D) $= \div \div$

Directions (Qs. 36 to 39) : Choose the correct alternative from the given ones that will complete the series.

36. 13, 39, 117, 351, ?

- (A) 702
- (B) 468
- (C) 1053
- (D) 377

37. AKM, CJO, EIQ, GHS, ?

- (A) IGU
- (B) HIT
- (C) FGU
- (D) IFU

38. 25, 36, 47, 58, ?

- (A) 59
- (B) 69
- (C) 78
- (D) None of these

39. N1V, K3T, H5R, E7P, ?

- (A) C9M
- (B) B9M
- (C) B9N
- (D) B8N

40. Which word is different from the remaining three ?

- (A) Venus
- (B) Moon
- (C) Mercury
- (D) Jupiter



iii) Arithmetical and Numerical Ability

41. When a pen is sold for ₹ 5, there is a profit of ₹ 2. If the same pen is sold for ₹ 10, how much is the profit ?
(A) ₹ 4 (B) ₹ 5
(C) ₹ 6 (D) ₹ 7
42. Tap 'A' takes 3 hours to fill a tank, Tap 'B' takes 2 hours to fill the same tank. How much time do both the taps together take to fill the same tank ?
(A) $2\frac{1}{2}$ hours
(B) $\frac{6}{5}$ hours
(C) $\frac{5}{6}$ hours
(D) $\frac{3}{2}$ hours
43. In a rectangle ABCD, AB = 4 cm, BC = 3 cm, what is the length of the largest straight line that can be drawn in this rectangle ?
(A) 4.5 cm
(B) 5.5 cm
(C) 5 cm
(D) 6 cm
44. The perimeter of a circle is 44 cm, find its area
(A) 154 sq. cm
(B) 88 sq. cm
(C) 176 sq. cm
(D) 152 sq. cm
45. $92 \div 8 \div 2 = ?$
(A) 5.25 (B) 4.25
(C) 5.75 (D) 4.75
46. Two trains 99 m and 121 m long are running in opposite directions at the speeds of 32 kmph and 40 kmph respectively. In what time will they completely cross each other from the moment they meet ?
(A) 9 secs (B) 11 secs
(C) 8 secs (D) 10 secs
47. Ajith sold an item for ₹ 4,510 and incurred a loss of 45%. At what price should he have sold the same item to have gained a profit of 45% ?
(A) ₹ 10,900
(B) ₹ 10,860
(C) ₹ 10,890
(D) ₹ 11,890
48. $(988 - 12)(988 + 12) = ?$
(A) 976000
(B) 988112
(C) 988000
(D) 976112
49. What is the difference between the simple interest and compound interest on ₹ 7,300 at the rate of 6% per annum in 2 years ?
(A) ₹ 29.37 (B) ₹ 26.28
(C) ₹ 31.41 (D) ₹ 23.22



50. The average age of a woman and her daughter is 19 years. The ratio of their ages is 16 : 3 respectively. What is the daughter's age ?

(A) 3 years (B) 9 years
(C) 12 years (D) 6 years

51. When "X" is subtracted from the numbers 9, 15 and 27, the remainders are in continued proportion. What is the value of "X" ?

(A) 8 (B) 5
(C) 3 (D) 4

52. The H.C.F. of $(ab - b^2)$ and $(a^2 - b^2)$ is

(A) $(a - b)$ (B) $(a + b)$
(C) ab (D) $a(a - b)$

53. The base of a triangle is 3 cm more than its height. If the area of this triangle is 20 sq.cm, find its base.

(A) 5 cm (B) 8 cm
(C) 10 cm (D) 6 cm

54. Three circles touch each other externally. Their radii are 3 cm, 4 cm and 5 cm. If their centres are A, B and C, find the perimeter of $\triangle ABC$.

(A) 12 cm (B) 19 cm
(C) 24 cm (D) 60 cm

55. If $\frac{x^{1.5}}{288} = \frac{6}{x^{1.5}}$, find x

(A) 12 (B) 18
(C) 15 (D) 13

56. A conical vessel, whose internal radius is 10 cm and height 48 cm is full of water. If this water is poured into a cylindrical vessel with internal radius 20 cm, find the height to which the water rises in it.

(A) 6 cm (B) 5 cm
(C) 4 cm (D) 3 cm

57. Face value of each share is ₹ 25. It is sold at a premium of ₹ 3. How many of these shares can be purchased by investing ₹ 5,600 ?

(A) 224 (B) 1533.3
(C) 240 (D) 200

58. Using the digits 3, 2, 5, 6, 9, how many three digit even numbers can be made without repetition ?

(A) 10
(B) 24
(C) 60
(D) None of these

59. What is the sum of the first 49 natural numbers ?

(A) 1225 (B) 1325
(C) 1125 (D) 1250

60. In $\triangle ABC$, PQ is drawn parallel to BC.

AP = 5, PB = 3, AQ = $3x - 1$, QC = $x + 1$, find x.

(A) 4 (B) 3
(C) 2 (D) 1



iv) Test of General Science

61. The most abundant gaseous element in the atmosphere is
(A) Nitrogen (B) Fluorine
(C) Hydrogen (D) Chlorine
62. Which one of the following resources can be recycled ?
(A) Petroleum
(B) Coal
(C) Iron
(D) None of these
63. Energy in the water stored in a dam is
(A) Kinetic energy
(B) Potential energy
(C) Practical energy
(D) None of these
64. Which one of the following waves has the highest frequency ?
(A) Ultraviolet rays
(B) Infrared rays
(C) Gamma rays
(D) X-rays
65. The amount of heat required to raise the temperature of 1 C.C. of water through 1°C is known as
(A) One centigrade
(B) One watt
(C) One ampere
(D) One calorie
66. Which of the following is called Sunshine Vitamin ?
(A) Vitamin A
(B) Vitamin B
(C) Vitamin C
(D) Vitamin D
67. The main constituent of LPG is
(A) methane
(B) butane
(C) ethane
(D) none of these
68. Which of the following instruments is used to detect electric current ?
(A) thermometer
(B) hydrometer
(C) galvanometer
(D) none of these
69. Who invented penicillin ?
(A) Alexander Fleming
(B) Louis Pasteur
(C) Dreser
(D) Edward Jenner
70. Which is the third nearest planet to the Sun ?
(A) Jupiter (B) Mars
(C) Venus (D) Earth



71. Find the odd one out.
- (A) Hookworm
 - (B) Guinea worm
 - (C) Tapeworm
 - (D) Ringworm
72. From the bark of which tree is quinine extracted ?
- (A) Eucalyptus
 - (B) Cinchona
 - (C) Neem
 - (D) Cedar
73. Hypertension is the term used for
- (A) increase in heart rate
 - (B) decrease in heart rate
 - (C) decrease in blood pressure
 - (D) increase in blood pressure
74. The device used for locating submerged objects under sea is
- (A) sonar
 - (B) radar
 - (C) laser
 - (D) maser
75. A light-year is a unit of
- (A) time
 - (B) distance
 - (C) velocity
 - (D) energy
76. Which of the following is called a 'red-planet' ?
- (A) Pluto
 - (B) Venus
 - (C) Jupiter
 - (D) Mars
77. The term 'epicentre' is associated with
- (A) Earthquakes
 - (B) Volcanoes
 - (C) Cyclones
 - (D) None of these
78. Commercially, sodium bicarbonate is known as
- (A) Washing soda
 - (B) Baking soda
 - (C) Bleaching powder
 - (D) Soda ash
79. India's Space Rocket Launching Centre is in
- (A) Kochi
 - (B) Tirupathi
 - (C) Hassan
 - (D) Sriharikota
80. In which categories did Marie Curie win her two different Nobel prizes ?
- (A) Physics and Chemistry
 - (B) Chemistry and Medicine
 - (C) Physics and Medicine
 - (D) Chemistry and Peace



v) Test of Language : English

भाषा परीक्षा : अंग्रेजी

Directions (Qs. 81 to 83) : Read the following passage and answer.

I opened the bag and packed the boots in ; and then, just as I was going to close it, a horrible idea occurred to me. Had I packed my toothbrush ? I don't know how it is, but I never do know whether I have packed my toothbrush.

My toothbrush is a thing that haunts me when I am travelling and makes my life misery. I dream that I haven't packed it, and wake up in a cold perspiration, and get out of bed and hunt for it. And in the morning, I pack it before I have used it, and it is always the last thing I turn out of the bag and then I repack and forget it, and have to rush upstairs for it at the last moment and carry it to the railway station, wrapped up in my pocket handkerchief.

81. When the author was going to close the bag, the idea that occurred to him was
 (A) unpleasant (B) excellent
 (C) fantastic (D) amusing
82. What makes the life miserable whenever he undertakes travelling ?
 (A) Going to railway station
 (B) Forgetting the toothbrush
 (C) Packing his bag
 (D) Bad dreams
83. His toothbrush is finally
 (A) in his bag
 (B) in his bed
 (C) in his handkerchief
 (D) lost

Directions (Qs. 84 to 87) : In these questions, four alternatives are given for idioms/phrases in CAPITALS. Choose the one which best expresses the meaning of the idiom/phrase given in CAPITALS.

84. I want to tell you that I will not PUT UP WITH this habit of yours.
 (A) tolerate (B) discuss
 (C) encourage (D) laugh at
85. Mohan did not go to Calcutta for a vacation since he was BANKING ON his arrears of pay which he did not get in time.
 (A) depending on his bank
 (B) sloping on
 (C) relying on
 (D) falling on
86. You must LAY ASIDE your habit of smoking.
 (A) make a show of it
 (B) take guidance about
 (C) discontinue
 (D) do it unnoticed by others
87. Shanthi is not CUT OUT for this kind of work.
 (A) trained
 (B) suitable
 (C) recommended
 (D) considered



Directions (Qs. 88 to 90) : Read each of these sentences to find out whether there is any error in it. The error if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, your answer is (D).

88. She worked very hard so that (A) / she might not keep the others (B) / wait too long (C) / No error (D)
89. I am not wealthy (A) / so I cannot afford to (B) / buy a expensive car (C) / No error (D)
90. All the players (A) / except Sam was (B) / present in the playground (C) / No error (D)

Directions (Qs. 91 to 94) : Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.

91. Do you know the person _____ owns that house ?
(A) that (B) whom
(C) which (D) who
92. The little boy _____ frightened and ran away.
(A) has (B) got
(C) get (D) become
93. The crop has been _____ well after the rains.
(A) grown (B) grow
(C) growing (D) grew
94. Being a sportsman is one and being a coach is _____.
(A) another (B) different
(C) second (D) same

Directions (Qs. 95 to 97) : Choose the correct alternative to fill in the blank.

95. No doubt he has achieved much, but I cannot give him credit for all that he boasts _____.
(A) with (B) of
(C) against (D) for
96. The expenditure _____ milk has gone up during the last one month.
(A) at (B) by
(C) to (D) on
97. Yesterday Rajani _____ school early to receive her parents at the railway station.
(A) went (B) left
(C) reached (D) joined
98. Choose the one which best expresses the meaning of BEHOLD ?
(A) take (B) bring
(C) see (D) bend
99. Choose the word opposite in meaning to the word UNRULY.
(A) ferocious
(B) unkind
(C) obedient
(D) terrible
100. Choose the alternative which is the plural of CALF ?
(A) CALVES
(B) CALFS
(C) CALFI
(D) CAVS