

Test Booklet Code  
परीक्षा पुस्तिका संकेत

**RAMA**

**ENGLISH+HINDI**

Test Booklet Number

**221261**

**D**

**Do not open this Test Booklet until you are asked to do so.**

**इस परीक्षा पुस्तिका को तब तक न खोलें जब तक कहा न जाए।**

**Read carefully the instructions on the Back Cover of this Test Booklet.**

**इस परीक्षा पुस्तिका के पिछले आवरण पर दिए निर्देशों को ध्यान से पढ़ें।**

This Booklet contains 36 pages.

इस पुस्तिका में 36 पृष्ठ हैं।

Name of the Candidate (in Capitals):

परीक्षार्थी का नाम (बड़े अक्षरों में):

**ANSHUL**

Roll Number

: in figures

अनुक्रमांक

: अंकों में

**230406016S**

: in words

: शब्दों में

Centre of Examination (in Capitals):

परीक्षा केन्द्र (बड़े अक्षरों में):

**JNV GHUSKANI, ROHTAK**

Candidate's Signature:

परीक्षार्थी के हस्ताक्षर:

**Anshul**

Invigilator's Signature:

निरीक्षक के हस्ताक्षर:

**Remy**

Facsimile signature stamp of

Centre Superintendent:

**Anshul**

**In case of any ambiguity in translation of any question, English version shall be treated as final.**

**प्रश्नों के अनुवाद में किसी अस्पष्टता की स्थिति में, अंग्रेजी संस्करण को ही अंतिम माना जायेगा।**

### INSTRUCTIONS / निर्देश

1. This question paper booklet contains FOUR sections. Section "A" Language contains 25 questions of 2 marks each. Section "B" Mathematics contains 50 questions of 3 marks each. Section "C" General Knowledge and Section "D" Intelligence contain 25 questions of 2 marks each. In all, the paper consists of 125 questions for a total of 300 marks. Answer all questions.  
इस प्रश्नपत्र पुस्तिका में चार विभाग हैं। विभाग "A" भाषा के 25 प्रश्न हैं, प्रत्येक 2 अंक का है। विभाग "B" गणित के 50 प्रश्न हैं, प्रत्येक प्रश्न 3 अंक का है। विभाग "C" सामान्य ज्ञान और विभाग "D" बुद्धिमत्ता के 25 प्रश्न हैं, प्रत्येक प्रश्न 2 अंक का है। इस प्रकार प्रश्नपत्र में कुल 125 प्रश्न हैं एवं कुल अंक 300 है। सभी प्रश्नों के उत्तर दें।
2. Duration of the test is 2 hours and 30 minutes. (150 minutes)  
परीक्षा का समय 2 घंटा 30 मिनट (150 मिनट) है।
3. Candidates are required to choose any of the following 13 languages : Assamese, Bengali, English, Gujarati, Hindi, Kannada, Malayalam, Marathi, Odia, Punjabi, Tamil, Telugu or Urdu, while applying.  
अभ्यर्थी को निम्न 13 भाषाओं में से किसी एक को चुनना है : आसामी, बंगाली, अंग्रेजी, गुजराती, हिन्दी, कन्नड़, मलयालम, मराठी, उड़िया, पंजाबी, तमिल, तेलुगु और उर्दू, जो कि आवेदन करते वक़्त चुना हो।
4. Question paper booklet for those who opted for English or Hindi will be bilingual (i.e. in English and in Hindi).  
जिन्होंने विकल्प के तौर पर अंग्रेजी या हिन्दी चुना है उनके लिए प्रश्न पुस्तिका द्विभाषा में होगी। (यथा - अंग्रेजी एवं हिन्दी में)
5. Question paper booklet for those who opted for any of the specified languages, will be bi-lingual, in the language opted by the candidate and in English.  
अभ्यर्थी जिन्होंने विनिर्दिष्ट भाषाओं में से किसी एक को चुना है, उनके लिए आवेदन पत्र में चुनी गयी भाषा एवं अंग्रेजी, द्विभाषा में प्रश्न पुस्तिका होगी।
6. Questions in Section "A" are specific to each language. They vary from language to language. They are not translated from English. They are to be attempted in the language opted by you in your application form and indicated on your Admit Card. They will be evaluated with reference to the answer keys of the specific language opted by you. If attempted in any other language, you may lose marks.  
विभाग "A" में प्रश्न प्रत्येक भाषा में विशिष्ट हैं। वे एक भाषा से दूसरी भाषा में अलग हैं। वे अंग्रेजी से अनुवादित नहीं हैं। आपको अपने आवेदन पत्र में और आपके प्रवेशपत्र पर अंकित आप द्वारा चुनी भाषा में उत्तर देना है। आपके द्वारा चुनी गयी विशिष्ट भाषा की उत्तर कुंजी के सन्दर्भ में मूल्यांकन होगा। यदि दूसरी भाषा में उत्तर दिया तो आपको अंकों का नुकसान हो सकता है।

## SECTION - 'A' : LANGUAGE

Read the following passage :

### The Seven Ancient Wonders of the World

The ancient Greeks made a list of places that people should see. The list was named 'the Seven Wonders of the World'. Only one of the ancient wonders can be found today in Giza, which is in Egypt. This is the Great Pyramid of Giza. It is one of the three great pyramids built around 2500 B.C. The Hanging Gardens of Babylon are another ancient wonder. They are located on the banks of the River Euphrates. This area is near Baghdad in Iraq. A King built this garden for his wife.

The Statue of Zeus was built in Olympia, Greece in 457 B.C. This statue was built to honour the Greek God Zeus. The statue was as tall as a four-storey building! In addition to Zeus, the Greeks built another very big statue, to honour the Greek Sun God, Helios. This wonder is known as the Colossus of Rhodes, built around 550 B.C. The Temple of Artemis at Ephesus was considered the most beautiful structure on earth. Ephesus was an ancient city that was located in what is now Turkey. The Mausoleum at Halicarnassus was also constructed in Turkey. The only wonder built for practical use was the Pharos of Alexandria. This was a lighthouse off the coast of Egypt. It was once the tallest building in the world.

Answer the following questions by choosing the correct option :

1. Which of the following statements is NOT TRUE about the passage ?
  - (1) Colossus of Rhodes was built to honour Helios.
  - (2) Pharos of Alexandria was a lighthouse.
  - (3) The Great Pyramid of Giza was destroyed.
  - (4) The Hanging Gardens of Babylon were built by a king for his wife.
  
2. Which of the Seven Ancient wonders of the world, was as tall as a four-storey building ?
  - (1) The Great Pyramid of Giza
  - (2) The Statue of Zeus
  - (3) The Mausoleum of Halicarnassus
  - (4) The Colossus of Rhodes

3. What is the meaning of the underlined word : 'The Lighthouse at Halicarnassus' ?
- (1) A kind of fabric                      (2) A country  
(3) Building to guide the ships      (4) A temple

**Do as directed :**

4. Fill in the blank with the appropriate option.

My mother advised me to stay \_\_\_\_\_ home.

- (1) in                      (2) at                      (3) on                      (4) for

5. Fill in the blank with the appropriate article.

Rakesh is \_\_\_\_\_ excellent Science teacher.

- (1) an                      (2) a                      (3) the                      (4) no article

6. Rearrange the following words/phrases to make meaningful sentence by choosing the correct sequence.

waved (A) / she (B) / greeted (C) / and (D) / cheerfully (E) / us (F)

- (1) BCDFEA              (2) CADBEF              (3) ADBFEC              (4) BADCFE

7. Fill in the blank with the correct option.

It was a steep \_\_\_\_\_ from the hilltop.

- (1) dissent              (2) decent              (3) descent              (4) desent

8. Rearrange the following words/phrases to make meaningful sentence by choosing the correct sequence.

snowfall (A) / heavy (B) / the (C) / everything (D) / covered (E)

- (1) CBAED              (2) BAECD              (3) DECBA              (4) CABED

9. Choose the correct noun.

A \_\_\_\_\_ of soldiers marched into the battleground.

- (1) Troupe              (2) Trupe              (3) Troop              (4) Truoep

10. Choose the correct pronoun.

Is she the girl \_\_\_\_\_ won the first prize?

- (1) that                      (2) whom                      (3) which                      (4) who

11. Choose the correct Question Tag.

You paid the bill, \_\_\_\_\_?

- (1) won't you              (2) didn't you              (3) will you              (4) doesn't you

12. Identify the type of sentence.

Mohan gave me a ten-rupee note.

- (1) Declarative              (2) Imperative              (3) Exclamatory              (4) Interrogative

13. Choose the correct verb.

The water \_\_\_\_\_ from the tap last night.

- (1) dripping              (2) drip              (3) dripped              (4) will drip

14. Choose the correct spellings :

- (1) Appointment              (2) Apointment              (3) Appointmant              (4) Appointment

15. Choose the correct option.

A cobbler is a person who \_\_\_\_\_.

- (1) repairs taps              (2) mends clothes              (3) mends bulbs              (4) repairs footwear

16. Choose the option that is opposite of 'EARLIER'.

- (1) Former              (2) Previous              (3) Latter              (4) Later

17. Choose the word nearest in meaning to the underlined word.

There was a momentous moment in the cricket match.

- (1) Insignificant              (2) Important              (3) Sudden              (4) Abrupt

18. Choose the correct adjective.

Yesterday was the \_\_\_\_\_ day of our trip.

- (1) most worse (2) more worse (3) worst (4) worser

19. Choose the correct option. Closest to the meaning of 'gigantic'.

- (1) Very small (2) Very good (3) Very bad (4) Very big

20. Choose the opposite of "literate".

- (1) Illiterate (2) Unliterate (3) Deliterate (4) Misliterate

21. Choose the incorrect pair :

- (1) knife-knives (2) woman-women (3) deer-deer (4) mouse-mouses

22. Choose the appropriate option.

All my friends are good-natured. As they say, birds of a feather \_\_\_\_\_ together.

- (1) wing (2) clique (3) flock (4) group

23. Identify the adverb.

The doctor will see you later.

- (1) later (2) will (3) see (4) The

24. Seeing the wounded bird, she \_\_\_\_\_ her mother.

- (1) was calling (2) called (3) call (4) calling

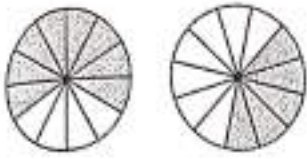
25. Fill in the blank with correct conjunction.

Manjeet cannot drive \_\_\_\_\_ he has a licence.

- (1) if (2) unless (3) although (4) yet

SECTION - 'B' : MATHEMATICS

26. What is the fraction that the sum of the shaded regions represent ?



- (1)  $\frac{10}{12}$       (2)  $\frac{1}{4}$       (3) 1      (4)  $1\frac{1}{12}$

27. What is the weight of two dozen biscuits if each biscuit weighs 4 g ?

- (1) 24 g      (2) 64 g      (3) 48 g      (4) 96 g

28. Choose the smallest possible 7-digit number that you can form using each of the following digits 5, 1, 8, 0, 3.

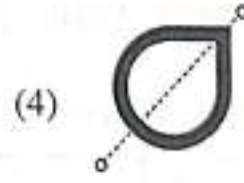
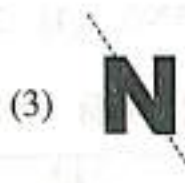
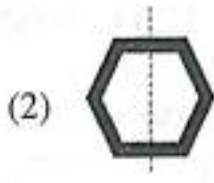
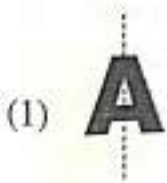
- (1) 1310058      (2) 1001358      (3) 1130058      (4) 1000358

29. Sum of place values of the underlined digits in the given numbers is \_\_\_\_\_.

695281      5348573

- (1) 305071      (2) 300551      (3) 305017      (4) 3005071

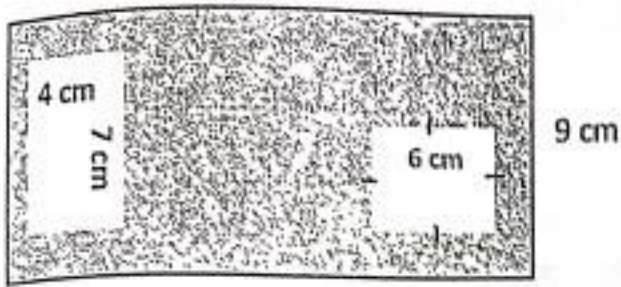
30. Which one of the following figures is not symmetrical along the dotted line ?



31. Which one of the following is not an equivalent fraction of  $\frac{5}{7}$  ?

- (1)  $\frac{15}{21}$       (2)  $\frac{45}{56}$       (3)  $\frac{25}{35}$       (4)  $\frac{10}{14}$

32. Find the area of the shaded part of the figure.



- (1) 161 sq. cm      (2) 171 sq. cm      (3) 173 sq. cm      (4) 163 sq. cm

33. Convert the fraction  $15\frac{1}{25}$  into a decimal number.

- (1) 150.4      (2) 15.04      (3) 1504      (4) 1.504

34. What would be the price of seven chairs, if the price of one chair is ₹ 7642.45 ?

- (1) ₹ 53497.35      (2) ₹ 53497.15      (3) ₹ 53499.15      (4) ₹ 53597.15

35. A webinar has three intervals of 5 minutes each. What is the total duration of the intervals in seconds ?

- (1) 1000      (2) 800      (3) 900      (4) 1500

36. An oil tank can hold 60 litres of oil. Another oil tank can hold thrice as much. What is the total capacity of both the tanks ?

- (1) 180 litres      (2) 240 litres      (3) 120 litres      (4) 300 litres

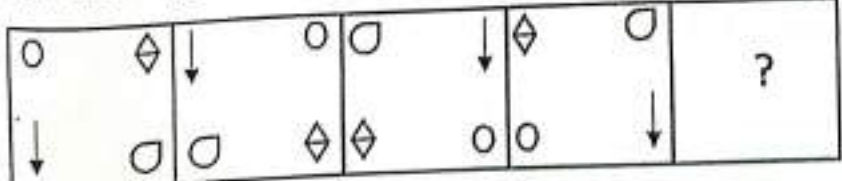
37. What is the side of a cube, if its volume is 64 cu.cm ?

- (1) 12 cm      (2) 4 cm      (3) 8 cm      (4) 16 cm

38. Which of the following numerals are arranged in ascending order ?

- (1) 6821, 6812, 6261, 2861      (2) 9075, 7905, 9701, 5907  
 (3) 10529, 12049, 12509, 15249      (4) 23124, 23213, 21467, 2764

39. Choose a figure that will continue the series in the given figure.



- (1)      (2)      (3)      (4)

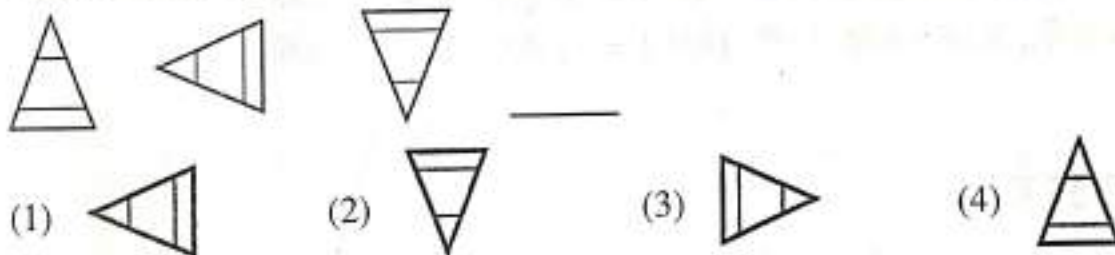
40. If  $\blacktriangle + \blacktriangle + \text{circle} = 420$  and  $\text{circle} - \blacktriangle = 90$ , then what is the value of  $\text{circle}$  ?  
 (1) 100 (2) 200 (3) 90 (4) 120

41. If the classes for the senior students start everyday at 8:35 a.m. and end at 1:45 p.m. (with no breaks), find the total duration of the classes.  
 (1) 4 hours 40 minutes (2) 310 minutes  
 (3) 5 hours 20 minutes (4) 315 minutes

42. In 563672, the place value of 6 at the ten thousands place is \_\_\_\_\_ times the place value of 6 at the hundreds place.  
 (1) 1000 (2) 100 (3) 10 (4) 10000

43. Anil had 78.6 m fabric which was just enough to make one set of uniform for 12 students. How much fabric would be used to make one uniform ?  
 (1) 6.05 m (2) 6.65 m (3) 6.55 m (4) 6.25 m

44. Select the next figure in the pattern :



45. An athlete finishes 400 m race in 48 seconds. How many minutes has he spent in running if he ran five times on the same track at the same speed ?  
 (1) 4 (2) 3.5 (3) 5 (4) 6

46. Which one of the following are arranged in descending order ?

- (1)  $\frac{2}{5}, \frac{2}{7}, \frac{2}{13}, \frac{2}{9}, \frac{2}{3}$  (2)  $\frac{6}{11}, \frac{14}{11}, \frac{10}{11}, \frac{4}{11}, \frac{2}{11}$   
 (3)  $\frac{7}{6}, \frac{7}{8}, \frac{7}{12}, \frac{7}{15}, \frac{7}{18}$  (4)  $\frac{10}{9}, \frac{13}{9}, \frac{5}{9}, \frac{15}{9}, \frac{7}{9}$

47. What must be added to 2.4624 to get 6.785 ?

- (1) 4.321 (2) 4.3221 (3) 4.3226 (4) 4.3229

48. Identify the greatest fraction from the following :

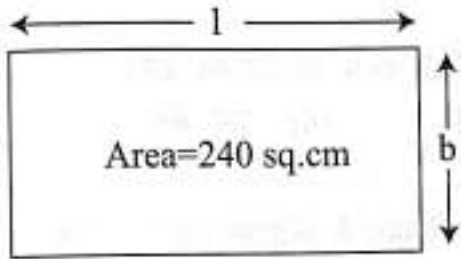
$$\frac{2}{11}, \frac{2}{7}, \frac{2}{13}, \frac{2}{9}, \frac{2}{3}$$

- (1)  $\frac{2}{11}$                       (2)  $\frac{2}{9}$                       (3)  $\frac{2}{7}$                       (4)  $\frac{2}{3}$

49. In a particular year, 76,43,872 students appeared for an exam. Out of them if 42,37,602 were girls, how many were boys ?

- (1) 43,06,270              (2) 34,56,270              (3) 34,06,270              (4) 43,05,370

50. Which one of the following is the incorrect option ?



- (1)  $l=19.2$  cm,  $b=12.5$  cm                      (2)  $l=16$  cm,  $b=15$  cm  
(3)  $l=54$  cm,  $b=5$  cm                              (4)  $l=32$  cm,  $b=7.5$  cm

51. Solve :  $\frac{6}{8} \div \frac{3}{2} \times \frac{4}{5}$

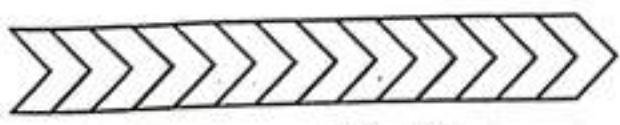
- (1)  $\frac{3}{5}$                       (2)  $\frac{3}{8}$                       (3)  $\frac{5}{8}$                       (4)  $\frac{2}{5}$

52. Select values of m, n to make the statement true.

$$127 \times 15 = (\underline{\quad m \quad} \times 15) + (\underline{\quad n \quad} \times 15)$$

- (1)  $m = 100, n = 15$                               (2)  $m = 120, n = 15$   
(3)  $m = 15, n = 27$                               (4)  $m = 100, n = 27$

53. How many parts of the given figure should be shaded to represent  $\frac{3}{7}$  ?



- (1) 4                              (2) 12                              (3) 8                              (4) 6

54. How many acute angles are there inside the given figure ?



(1) 4

(2) 6

(3) 5

(4) 7

55. 128400 pens are to be packed in cartons with 150 pens in each. How many cartons will be needed ?

(1) 856

(2) 805

(3) 846

(4) 876

56. Prisha weighs 42 kg and Kyra weighs 39.5 kg. What is their total weight ?

(1) 82500 g

(2) 8250 g

(3) 81500 g

(4) 8150 g

57. Identify the angle created by the minute hand and the hour hand at 2:30 p.m.

(1) Acute

(2) Obtuse

(3) Straight

(4) Right

58. A dealer purchased 50 tables for ₹ 4570 each. Nine tables got damaged in transit. He sold the remaining tables for ₹ 5000 each. Choose the most appropriate statement for this case ?

(1) He was able to recover the cost of the damaged tables.

(2) He made a profit of ₹ 25000.

(3) He incurred a loss of ₹ 23500.

(4) He made a profit of ₹ 23500.

59. I am a five-digit even number. I have 9 at my tens place. The digit at the ten thousands place is three less than the digit at the tens place. The digit at the hundreds place is half the value of the digit at the ten thousand place. The digit at the thousand place is double the digit at the ones place. Who am I ?

(1) 68494

(2) 61392

(3) 64391

(4) 68394


60. The product of the LCM and HCF of two numbers is 322. If one of the numbers is 23, what is the other ?

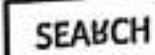
(1) 7

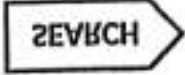
(2) 14

(3) 18

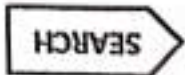
(4) 46

61. What would be the water image of  ?

(1) 

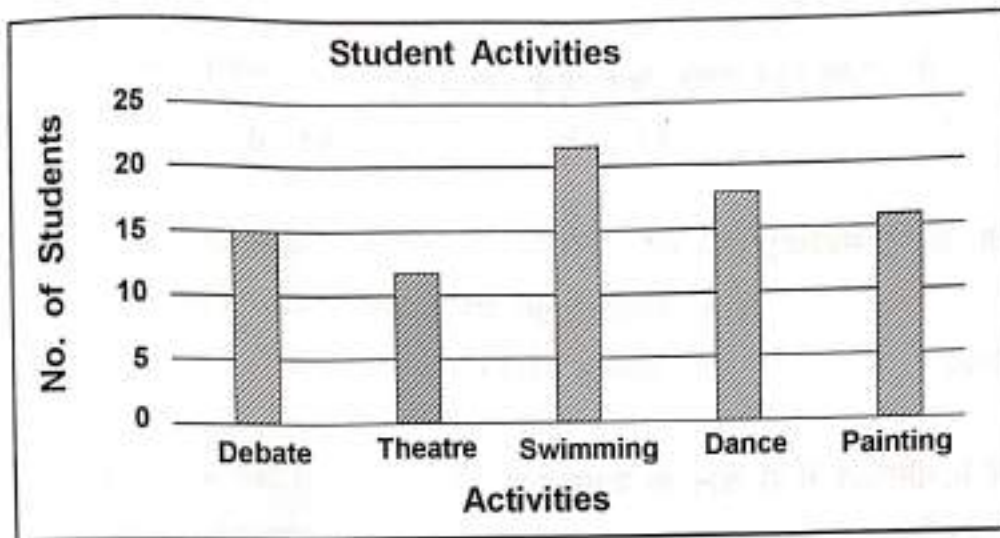
(2) 

(3) 

(4) 

62. Which one of the following options is incorrect ?  
 (1)  $\frac{2}{5} = 0.4$  (2)  $1.147 > 1.039$  (3)  $5.862 < 5.9$  (4)  $3.21 > 3.222$
63. Fill in the blank with the correct option.  
 $CCCXC + LIX = \underline{\hspace{2cm}}$ .  
 (1) CCCXLIX (2) CDXLIX (3) CDCXLIX (4) CDXXXXIX
64. Rounding off 7348561 to the nearest hundreds is \_\_\_\_\_.  
 (1) 7348000 (2) 7348600 (3) 7348560 (4) 7348500
65. What should be subtracted from 3 million to get 1765498 ?  
 (1) 1,234,602 (2) 1,234,502 (3) 1,324,502 (4) 1,234,402
66. Shreya has 32 red pens and 56 blue pens. She wants to make packs of equal number of pens out of them in such a way that each pack has pens of only one colour. How many pens would be there in the biggest pack ?  
 (1) 4 (2) 8 (3) 16 (4) 12
67. If the cost of fencing 1 m is ₹ 215, then find the cost of fencing a park with length 45 m and breadth 23 m.  
 (1) ₹ 29240 (2) ₹ 25340 (3) ₹ 29440 (4) ₹ 29540
68. The area of a triangle whose base is 12 cm and the height twice the base, is \_\_\_\_\_.  
 (1) 288 sq. cm (2) 144 sq. cm (3) 289 sq. cm (4) 298 sq. cm
69. Raman started a journey 4 hours before Sameer. If Sameer started his journey at 2:15 p.m. at what time did Raman start his journey ?  
 (1) 09:15 hours (2) 11:15 hours (3) 10:15 hours (4) 14:15 hours
70. Seventy six lakh four thousand eighty three is written as \_\_\_\_\_ in the international number system.  
 (1) 7,640,083 (2) 76,483 (3) 760,483 (4) 7,604,083

Instructions For Q. No. 71 - 75 : The following graph represents the activities taken up by Grade V students in a particular school. Study the graph and answer the following questions.



71. The number of students who chose Painting is \_\_\_\_\_ more than the number of students who chose Theatre.
- (1) 1                      (2) 2                      (3) 3                      (4) 4
72. What is the total number of students in Grade V ?
- (1) 80                      (2) 83                      (3) 85                      (4) 84
73. How many students were there in the 2 least popular activities ?
- (1) 25                      (2) 24                      (3) 28                      (4) 27
74. How many students chose Dance ?
- (1) 16                      (2) 18                      (3) 17                      (4) 19
75. How many more students chose Swimming as compared to Debate ?
- (1) 6                      (2) 8                      (3) 5                      (4) 7

**SECTION - 'C' : GENERAL KNOWLEDGE**

76. In which sport is the term 'Knock-Out' used ?  
(1) Archery (2) Boxing (3) Golf (4) Billiards
77. The reading above \_\_\_\_\_ on Richter scale can cause severe damage.  
(1) 7 (2) 6 (3) 5 (4) 4
78. Which bacteria is responsible for the formation of curd ?  
(1) Vibrio Cholerae (2) Lactobacillus Acidophilus  
(3) Streptococcus thermophilus (4) Bacillus radiclecola
79. Which one of the following statements is true about fossil fuels ?  
(1) They are renewable resources.  
(2) They are found within the top layers of the Earth's crust.  
(3) They are formed over the course of ten years.  
(4) They are the remains of once-living organisms.
80. Where did Buddha attain enlightenment ?  
(1) Lumbini (2) Bodh Gaya (3) Sarnath (4) Kushinagar
81. Who invented electric bulb ?  
(1) Thomas Alva Edison (2) Alexander Graham Bell  
(3) Marie Curie (4) C. V. Raman
82. Pick out the incorrect statement.  
(1) Gravitation affects only part of the earth.  
(2) Gravitation pulls iron.  
(3) Gravitation prevents things from floating.  
(4) Aeroplane do not fly in the gravitational field.
83. Where is the famous Meenakshi Temple located ?  
(1) Ujjain (2) Varanasi (3) Madurai (4) Rameswaram

84. What process is involved in Cloud Seeding, which is a technique that induces rain ?
- (1) Adopting an agricultural practice that depends on clouds.
  - (2) When water vapour in the atmosphere cools and condenses around a particle of dust or salt.
  - (3) Making clouds and placing them in the sky.
  - (4) Scattering clouds to form seed like structures.
85. Which part of the Earth supports its biodiversity ?
- (1) Biosphere
  - (2) Sanctuary
  - (3) Ecosystem reserve
  - (4) Biotic community
86. What do tissues help in ?
- (1) Faster development
  - (2) Division of labour among cells
  - (3) Higher reproductive potential
  - (4) Body strength
87. Who was the Chief of Army during the Indo-Pak war, 1971 ?
- (1) General PP Kumaramangalam
  - (2) Field Marshal SHFJ Manekshaw
  - (3) General JN Chaudhari
  - (4) General KS Thimayya
88. Salman Rushdie won the Booker Prize for which book ?
- (1) The Satanic Verses
  - (2) Midnight's Children
  - (3) Fury
  - (4) Shalimar the Clown
89. Which Vitamin deficiency leads to bleeding of gums, slow healing of wounds and aching limbs ?
- (1) Vitamin A
  - (2) Vitamin B
  - (3) Vitamin C
  - (4) Vitamin D
90. Which State / Union Territory is Nanda Devi located in ?
- (1) Himachal Pradesh
  - (2) Jammu and Kashmir
  - (3) Uttarakhand
  - (4) Uttar Pradesh
91. What does white colour in the Indian National Flag represent ?
- (1) Sacrifice
  - (2) Peace and Truth
  - (3) Prosperity of life
  - (4) None of these

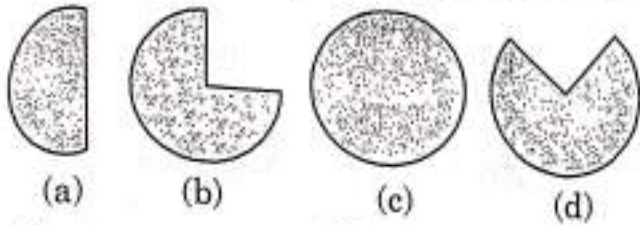
92. Which classical dance form is named after the village it originated from ?  
(1) Kuchipudi (2) Kathakali (3) Bharatnatyam (4) Mohiniattam
93. What is the major source of fresh water in India ?  
(1) Ocean water (2) River water (3) Pond water (4) Ground water
94. Name the holy book of the Parsis.  
(1) Bible (2) Zend Avesta (3) Quran (4) Guru Granth Sahib
95. Where is the United Nations Headquarters located ?  
(1) Vienna (2) New York (3) Paris (4) Zurich
96. Which sweet is deep-fried, dipped in sugar syrup, round shaped and usually orange in colour ?  
(1) Gajar ka halwa (2) Rasgulla (3) Bhakarwadi (4) Jalebi
97. Who has won the Sushila Devi Literature Award for the novel "Things to Leave Behind" ?  
(1) Kanika Mukherjee (2) Ram Suri  
(3) Namita Gokhale (4) Rita Chandra
98. Pick an example of water pollution.  
(1) An oil spill from a large ship  
(2) Animals walking along the beach  
(3) Drinking water out of a plastic bottle  
(4) Gasoline in a car
99. By what other name is the Water Cycle known as ?  
(1) Water movement cycle (2) Air cycle  
(3) Hydrologic cycle (4) Tectonic cycle
100. What is meant by seed coat ?  
(1) Hard cover around the food stored  
(2) Hard cover around the baby plant  
(3) The protective outer coat of a seed  
(4) Hard cover around the roots of the plant

SECTION - 'D' : INTELLIGENCE

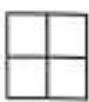

101. Which of the following option is an odd one ?

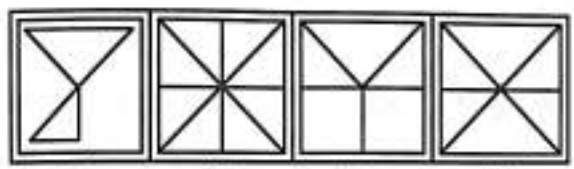
- (1) PQRS                      (2) LMNOP                      (3) BCDE                      (4) FGHI

102. If 35 out of 70 people are diabetic, which figure will depict the diabetic group ?



- (1) a                      (2) b                      (3) c                      (4) d

103. Figure  is embedded in one of the four alternatives. Find the alternative which contains figure  as its part.



- (1) a                      (2) b                      (3) c                      (4) d

104. Fill in the blank with one of the options given below, which is in line with the sequence in the question.

PUE, QVF, RWG, \_\_\_\_\_, TYI

- (1) SXH                      (2) TSQ                      (3) ABN                      (4) STY

105. If GRAIN is related to WAREHOUSE, then Water is related to \_\_\_\_\_.

- (1) Estuary                      (2) River                      (3) Canal                      (4) Dam

106. Choose the correct alternative.

Smoke : Pollution :: War : ?

- (1) Peace                      (2) Victory                      (3) Treaty                      (4) Destruction

107. Replace the question mark (?) in the given series.

mm, OO, qq, SS, ?

- (1) uu                      (2) Ss                      (3) UU                      (4) rr

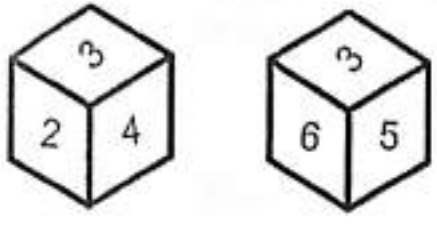
108. There are four buildings in a residential complex A, B, C and D. Each one is of a different height. D is only shorter than B, A is shorter than D and C. Which one is the shortest of them all ?

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

109. What comes in the place of question mark (?) in the following number series?  
4, 12, 36, 108, 324, ?

- (1) 520                      (2) 475                      (3) 680                      (4) 972

110. Two positions of dice are shown below. Identify the number at the bottom when the top is '5' ?

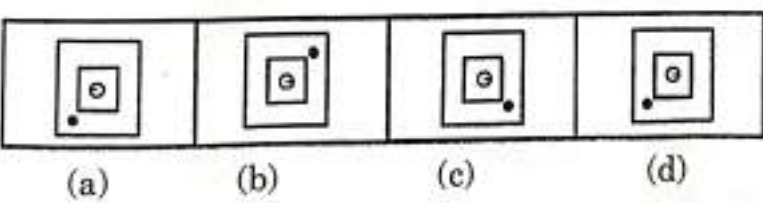
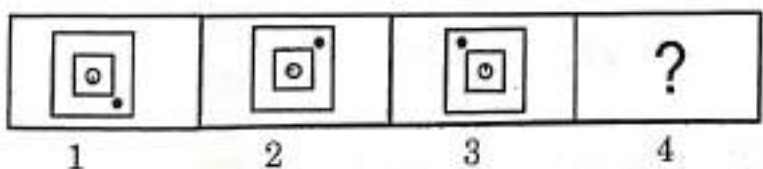


- (1) 3                      (2) 2                      (3) 6                      (4) 4

111. R is K's sister. P is K's brother. Q is T's father who is P's brother. H is K's mother. At least how many sons do Q and H have ?

- (1) 3                      (2) 2                      (3) 1                      (4) 4

112. Which figure among the four alternatives a, b, c, d would replace the question mark in figure '4' ?



- (1) a                      (2) b                      (3) c                      (4) d

113. Which sequence of mathematical symbols can replace \* in the given equation to balance the equation ?

$$7 * 7 * 2 * 1 = 12$$

- (1)  $\times \div -$                       (2)  $+ - \times$                       (3)  $\div + -$                       (4)  $\times - \times$

114. A bus from Delhi leaves every 30 minutes from a bus station. The station master told a passenger that a bus has already left 10 minutes ago and the next bus will leave at 9:35 am. At what time the station master gave this information to the passenger ?

- (1) 9:20 am      (2) 9:10 am      (3) 9:15 am      (4) 9:25 am

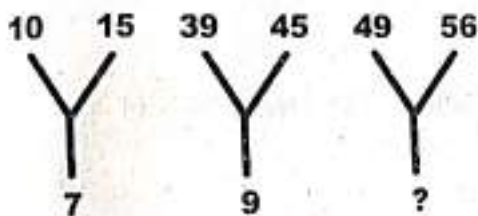
115. Surbhi is facing East. She turns  $90^\circ$  in the clockwise direction and moved 2 kilometers, then she turns  $145^\circ$  in clockwise direction and moved 1 kilometer. Which direction is she facing now ?

- (1) North      (2) East      (3) North-West      (4) South-East

116. If in a certain language 'PARROT' is written as '123345' and 'SOAT' is written as '6425', then how would 'ROAST' be written in that code ?

- (1) 34625      (2) 32564      (3) 32456      (4) 34265

117. Find the missing figures from the given alternatives.



- (1) 28      (2) 21      (3) 11      (4) 38

118. Find out the pair in which the words bear the same relationship to each other as the given one.

Austria : Vienna

- (1) Egypt : Cairo      (2) Germany : London  
(3) USA : Orlando      (4) Australia : Sydney

119. Which of the following words cannot be formed out of the word 'CONDUCT' ?

- (1) Duct      (2) Counted      (3) Count      (4) Donut

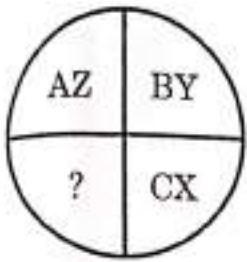
120. 37 boys are standing in a row. Aakash is  $14^{\text{th}}$  from the right end. If he is shifted six places to the left, what is his position from the left end ?

- (1) 20      (2) 18      (3) 11      (4) 14

121. In a certain language 'FIGHT' is written as 'TGHFI', then how will 'PAPER' be written in that code ?

- (1) RPEPA      (2) REPPA      (3) PEARP      (4) PAEPR

122. Which character when placed at the sign of interrogation (?) shall complete the given pattern ?



- (1) DW                      (2) DK                      (3) DE                      (4) DL

123. If 'A' means ' $\div$ ', 'B' means '-', 'C' means ' $\times$ ' and 'D' means '+', then find the value of the following equation.

$$16 \text{ D } 64 \text{ A } 4 \text{ B } 4 \text{ C } 3 = ?$$

- (1) 20                      (2) 15                      (3) 9                      (4) 17

124. Choose the correct alternative from the options for the Assertion (A) and Reason (R) given below.

**Assertion (A) :** In India, people elect their own representatives.

**Reason (R) :** India is a democratic country.

- (1) 'A' is true but 'R' is false                      (2) 'A' is false but 'R' is true  
 (3) Both 'A' and 'R' are true                      (4) Both 'A' and 'R' are false

125. Which of the following diagrams best depicts the relationship between Table, Chair, Furniture ?



A



B



C



D

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

- o O o -



SPACE FOR ROUGH WORK / कच्चे काम के लिये जगह

$$\begin{array}{r} 0.6 \\ 3 \overline{) 20} \\ \underline{18} \\ 2 \end{array}$$

$$\begin{array}{r} 0.1 \\ 13 \overline{) 20} \\ \underline{13} \\ 7 \end{array}$$

$$\begin{array}{r} 0.2 \\ 20 \overline{) 313} \\ \underline{40} \\ 73 \\ \underline{146} \\ 287 \\ \underline{574} \\ 1132 \\ \underline{2264} \\ 4232662 \\ \underline{34061270} \end{array}$$

$$\begin{array}{r} 256 \\ \times 150 \\ \hline 000 \\ 4280 \\ \hline 42800 \end{array}$$

$$\begin{array}{r} 42800 \\ + 35000 \\ \hline 77800 \\ \underline{325} \\ 77475 \end{array}$$

$$\begin{array}{r} 276 \\ \times 150 \\ \hline 000 \\ 4140 \\ \hline 41400 \end{array}$$

$$\begin{array}{r} 345 \\ + 39 \\ \hline 384 \end{array}$$

$$\begin{array}{r} 561824 \\ - 492240 \\ \hline 69584 \end{array}$$

$$\begin{array}{r} 5060 \\ \times 60 \\ \hline 30360 \end{array}$$

$$\begin{array}{r} 25 \\ \times 0 \\ \hline 0 \\ 50 \\ \times 15 \\ \hline 750 \\ + 500 \\ \hline 1250 \end{array}$$

$$\begin{array}{r} 22 \\ 16 \\ \hline 38 \end{array}$$

$$\begin{array}{r} 16 \\ \times 6 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 2 \\ 16 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 30000 \\ + 70 \\ \hline 30070 \\ + 5061 \\ \hline 30571 \end{array}$$

$$\begin{array}{r} 3.25 \\ \times 100 \\ \hline 32500 \end{array}$$

$$\begin{array}{r} 29500 \\ + 340 \\ \hline 29840 \\ + 340 \\ \hline 30180 \\ + 59 \\ \hline 30239 \end{array}$$

$$\begin{array}{r} 34 \\ \times 2 \\ \hline 68 \end{array}$$

$$16 + 19 = 4 - 4 \times 3$$

$$16 \times 16 \times 3 - 4 \times 2$$

$$18 + 16 - 4 \times 15$$

$$\begin{array}{r} 36 \\ + 16 \\ \hline 52 \\ \times 3 \\ \hline 156 \\ + 16 \\ \hline 172 \\ + 16 \\ \hline 188 \end{array}$$

$$\begin{array}{r} 32500 \\ + 42000 \\ \hline 74500 \end{array}$$

$$\begin{array}{r} 1000 \\ \underline{42} \\ 2000 \\ 4000 \\ \hline 4200 \end{array}$$

$$\begin{array}{r} 342 \\ \times 2 \\ \hline 684 \end{array}$$

$$\begin{array}{r} 11 + 25 \times \\ \times 2 \\ \hline 22 \\ 375 \end{array}$$

$$\begin{array}{r} 275 \\ \times 2 \\ \hline 550 \\ + 25 \\ \hline 575 \end{array}$$

$$\begin{array}{r} 16 \\ \times 25 \\ \hline 400 \\ + 80 \\ \hline 480 \end{array}$$

$$\begin{array}{r} 53497.75 \\ \times 23 \\ \hline 11820 \\ + 10675 \\ \hline 11820 \\ + 4680 \\ \hline 14320 \\ \hline 6480 \\ \hline 240 \end{array}$$

$$\begin{array}{r} 215 \\ \times 23 \\ \hline 645 \\ 430 \\ \hline 4915 \end{array}$$

$$\begin{array}{r} 215 \\ \times 45 \\ \hline 1075 \\ + 860 \\ \hline 1935 \end{array}$$

$$\begin{array}{r} 215 \\ \times 25 \\ \hline 5375 \\ - 35 \\ \hline 5340 \end{array}$$

$$\begin{array}{r} 16 \\ \times 25 \\ \hline 400 \\ + 80 \\ \hline 480 \end{array}$$

$$\begin{array}{r} 355 \\ - 25 \\ \hline 330 \\ - 100 \\ \hline 230 \end{array}$$

$$\begin{array}{r} 10 \\ \times 60 \\ \hline 600 \end{array}$$

7. At the appointed time, when you are instructed to open the booklet by the Invigilator, open it and check whether it contains Section "A" in the language opted by you in your Application Form and indicated on your Admit Card. If not, bring it to the notice of the Invigilator immediately.  
नियुक्ति के समय, जब निरीक्षक के द्वारा पुस्तिका को खोलने की सूचना दी जाती है, तब इसे खोले और जाँच करें कि यह आपके आवेदन पत्र में और आपके प्रवेशपत्र पर अंकित आपके द्वारा चुनी गयी भाषा में विभाग "A" है। यदि नहीं हो, तो तुरंत निरीक्षक के ध्यान में लायें।
8. In case of any ambiguity in translation/construction of a question, in the version of the specified language/s, its English version (except for the language section questions) shall be treated as final.  
विनिर्दिष्ट भाषा के प्रश्न के अनुवाद/रचना में अस्पष्टता होने पर अंग्रेजी अनुवाद (भाषा विभाग के प्रश्नों के सिवाय) अंतिम माना जायेगा।
9. The question paper booklet is of 36 pages. Please check and ensure that the Question Paper Booklet is complete and contains all the pages.  
प्रश्नपत्र पुस्तिका 36 पृष्ठों की है। कृपया जाँच करके सुनिश्चित करें कि प्रश्नपत्र पुस्तिका सम्पूर्ण है और इसमें सभी पृष्ठ हैं।
10. Answer all questions in the OMR Answer Sheet only.  
सभी प्रश्नों के उत्तर OMR उत्तर पत्र में ही दें।
11. The OMR Answer Sheet is inside this Question Paper Booklet. When you are directed to open the Question Paper Booklet, take out the OMR Answer Sheet and fill in the particulars carefully with Blue/Black ball point pen only.  
OMR उत्तर पत्र इस प्रश्नपत्र पुस्तिका के अंदर है। जब आपको प्रश्नपत्र पुस्तिका को खोलने का निर्देश दिया जाये, तब OMR उत्तर पत्र को बाहर निकाल लें और केवल नीली / काली बालपॉइंट पेन से ही विवरण ध्यानपूर्वक भरें।
12. Darken only one circle as your answer for each question. If you darken more than one circle for the same question, your answer will be treated as invalid.  
प्रत्येक प्रश्न के लिए सिर्फ एक गोले को ही काला करें। यदि आप एक ही प्रश्न के एक से अधिक गोले काला करते हैं तो आपका उत्तर गलत माना जायेगा।
13. There is no negative marking for a wrong answer.  
गलत उत्तर के लिए ऋणात्मक अंकन (नेगेटिव मार्किंग) नहीं है।
14. Do not make unnecessary marks on the OMR answer sheet or fold or attempt to deface it. If you do so your answer sheet will not be evaluated.  
OMR उत्तर पत्र पर अनावश्यक चिह्न नहीं करें, इसे माड़ें नहीं व विकृत न करें। यदि आप ऐसा करते हैं, तो आपके उत्तर पत्र का मूल्यांकन नहीं किया जायेगा।
15. Use Blue/Black ball point pen only for writing particulars on this page and for writing answers. Do not use pencil.  
इस पृष्ठ पर विवरण और उत्तर लिखने के लिए सिर्फ नीली / काली बालपॉइंट पेन का ही उपयोग करें। पेन्सिल का उपयोग न करें।
16. Rough work is to be done in the space provided for this purpose in the Question Paper Booklet only and not on the OMR sheet.  
कच्चा कार्य प्रश्नपत्र पुस्तिका में दिये गये निश्चित स्थान पर ही करना है, OMR पत्र पर नहीं।
17. On completion of the test, hand over the OMR Answer Sheet to the Invigilator before leaving the Room/Hall.  
परीक्षा पूर्ण होने पर, कक्ष / हाल छोड़ने से पूर्व OMR उत्तर पत्र परिवेक्षक को सुपूर्द करें।
18. You are allowed to take away this Question Paper Booklet with you.  
आपको यह प्रश्नपत्र पुस्तिका अपने साथ ले जाने की अनुमति है।
19. The CODE for this Booklet is **D**. Make sure that the CODE printed on the OMR Answer Sheet is the same as that on this Question Paper Booklet. In case of discrepancy, report the matter immediately to the Invigilator for replacement of both the Question Paper Booklet and the Answer Sheet.  
इस पुस्तिका का कोड **D** है। यह सुनिश्चित करें कि OMR उत्तर पत्र पर छपा कोड, इस प्रश्नपत्र पुस्तिका जैसा ही है। विसंगति की स्थिति में प्रश्नपत्र पुस्तिका और उत्तर पत्र बदलने के लिए परिवेक्षक को तुरंत रिपोर्ट करें।
20. Do not write your Roll No. anywhere else except in the specified space in the Question Paper Booklet / OMR Answer Sheet.  
प्रश्नपत्र पुस्तिका / OMR उत्तर पत्र में विनिर्दिष्ट स्थान के अतिरिक्त अपना रोल नं. कहीं भी नहीं लिखें।
21. Do not use white fluid for carrying out any correction on the OMR Answer Sheet.  
OMR उत्तर पत्र पर किसी भी शोधने हेतु श्वेत द्रव का उपयोग न करें।