

<i>Signature of Candidate</i>
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<i>Signature of Invigilator</i>
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18085
<i>Booklet Serial No.</i>

## PAPER - I

### QUESTION PAPER BOOKLET (QPB)

Duration: 01:00 Hour (Sixty Minutes)

Maximum Marks: 100

Hall Ticket No.:

OMR Serial No.:



### INSTRUCTIONS TO THE CANDIDATES

1. Candidate should write his/her HALL TICKET NUMBER and OMR SERIAL NUMBER in the space provided above and not elsewhere.
2. This Paper is a MCQ (Multiple Choice Question) based test with **negative marking**.
3. This QPB contains 24 pages including 3 pages for Rough Work and Paper II.
4. Check the QPB and MCQs thoroughly before taking the TEST.
5. Report to the INVIGILATOR in case of mis-print or any discrepancy in the QPB & MCQs.
6. There are 100 MCQs. Each MCQ has four options. Choose the correct option and darken the circle only with blue/black ballpoint pen in the OMR sheet against the corresponding option.
7. One mark is given for each correct option and negative marking of **0.25** marks for each incorrect option.
8. If more than one circle is **bubbled** for a question in the OMR Sheet, marks shall not be awarded.
9. At the end of the ENTRANCE TEST, handover the QPB & OMR sheet to the INVIGILATOR.
10. Candidate shall be disqualified, if the QPB and the OMR sheet are not handed over to the INVIGILATOR after the examination.

25-25-38

## SPACE FOR ROUGH WORK

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## CONSTRUCTION REPORT (CPR)

Horizontal Marks: 100

Vertical Marks: 100



100% Total



Solve Pencil Box

(B)

(C)

## INSTRUCTIONS TO THE CANDIDATES

Q1. The following is a sequence of numbers. Insert the missing number in the box. The sequence is formed by a rule. The rule is not necessarily the same for all the numbers. The rule is not necessarily the same for all the numbers.

Rule: The first two numbers are 1 and 2. The third number is 3. The fourth number is 5. The fifth number is 8. The sixth number is 13. The seventh number is 21. The eighth number is 34. The ninth number is 55. The tenth number is 89. The eleventh number is 144. The twelfth number is 233. The thirteenth number is 377. The fourteenth number is 610. The fifteenth number is 987. The sixteenth number is 1597. The seventeenth number is 2584. The eighteenth number is 4181. The nineteenth number is 6765. The twentieth number is 10946. The twenty-first number is 17711. The twenty-second number is 28657. The twenty-third number is 46368. The twenty-fourth number is 75025. The twenty-fifth number is 121393. The twenty-sixth number is 196415. The twenty-seventh number is 317810. The twenty-eighth number is 514225. The twenty-ninth number is 831035. The thirtieth number is 1345260. The thirti-first number is 2176295. The thirti-second number is 3521555. The thirti-third number is 5697850. The thirti-fourth number is 9229405. The thirti-fifth number is 15127255. The thirti-sixth number is 24356660. The thirti-seventh number is 39483915. The thirti-eighth number is 63840575. The thirti-ninth number is 103324490. The thirti-tenth number is 167164965. The thirti-eleventh number is 260489455. The thirti-twelfth number is 427654420. The thirti-thirteenth number is 688143875. The thirti-fourteenth number is 1115798095. The thirti-fifteenth number is 1803941970. The thirti-sixteenth number is 2919739965. The thirti-seventeenth number is 4723681935. The thirti-eighteenth number is 7643421900. The thirti-nineteenth number is 12367003835. The thirti-twentieth number is 20000425735. The thirti-twenty-first number is 32367429570. The thirti-twenty-second number is 52367429570. The thirti-twenty-third number is 84734859140. The thirti-twenty-fourth number is 137102288710. The thirti-twenty-fifth number is 221837147850. The thirti-twenty-sixth number is 359939436560. The thirti-twenty-seventh number is 581776573410. The thirti-twenty-eighth number is 931715910970. The thirti-twenty-ninth number is 1513492484580. The thirti-twenty-tenth number is 2445208395150. The thirti-twenty-eleventh number is 3958690879730. The thirti-twenty-twelfth number is 6393899274880. The thirti-twenty-thirteenth number is 10352590154510. The thirti-twenty-fourth number is 16705489429310. The thirti-twenty-fifth number is 26958080583820. The thirti-twenty-sixth number is 43663569967130. The thirti-twenty-seventh number is 70621649550950. The thirti-twenty-eighth number is 114285219118450. The thirti-twenty-ninth number is 184906868679370. The thirti-twenty-tenth number is 299192087897720. The thirti-twenty-eleventh number is 483108956577090. The thirti-twenty-twelfth number is 782301044474810. The thirti-twenty-thirteenth number is 126541000095290. Thethirti-twenty-fourth number is 204771104490580. Thethirti-twenty-fifth number is 331212104490580. 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Thethirti-twenty-fourth number is 2684354560000000000. Thethirti-twenty-fifth number is 4294967296000000000. Thethirti-twenty-sixth number is 6871947673600000000. Thethirti-twenty-seventh number is 10936909022400000000. Thethirti-twenty-eighth number is 17491854435840000000. Thethirti-twenty-ninth number is 27186967096640000000. Thethirti-twenty-tenth number is 43973947360000000000. Thethirti-twenty-eleventh number is 70359911793600000000. Thethirti-twenty-twelfth number is 112599858864000000000. Thethirti-twenty-thirteenth number is 180159798145600000000. Thethirti-twenty-fourth number is 290599837104000000000. Thethirti-twenty-fifth number is 464959755440000000000. Thethirti-twenty-sixth number is 742399592656000000000. Thethirti-twenty-seventh number is 1187839348256000000000. Thethirti-twenty-eighth number is 1892558957216000000000. Thethirti-twenty-ninth number is 3028894327584000000000. Thethirti-twenty-tenth number is 4846470924160000000000. 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Thethirti-twenty-tenth number is 4702664157532480000000000000000000000000000000. Thethirti-twenty-eleventh number is 65984962363988000000000000000000000000000000000. Thethirti-twenty-twelfth number is 98977443545980800000000000000000000000000000000. Thethirti-twenty-thirteenth number is 148966185318976000000000000000000000000000000000. Thethirti-twenty-fourth number is 301918413297952000000000000000000000000000000000. Thethirti-twenty-fifth number is 452877624946928000000000000000000000000000000000. Thethirti-twenty-sixth number is 679316437419840000000000000000000000000000000000. Thethirti-twenty-seventh number is 1019024656129280000000000000000000000000000000000. Thethirti-twenty-eighth number is 1528536984193600000000000000000000000000000000000. Thethirti-twenty-ninth number is 2292305476285600000000000000000000000000000000000. Thethirti-twenty-tenth number is 3437953264428800000000000000000000000000000000000. Thethirti-twenty-eleventh number is 51568898466432000000000000000000000000000000000000. Thethirti-twenty-twelfth number is 77358347699120000000000000000000000000000000000000. Thethirti-twenty-thirteenth number is 116037516598400000000000000000000000000000000000000. Thethirti-twenty-fourth number is 265093801496000000000000000000000000000000000000000. Thethirti-twenty-fifth number is 397640702294400000000000000000000000000000000000000. Thethirti-twenty-sixth number is 586460553441600000000000000000000000000000000000000. Thethirti-twenty-seventh number is 879680829662400000000000000000000000000000000000000. Thethirti-twenty-eighth number is 1269514439488000000000000000000000000000000000000000. Thethirti-twenty-ninth number is 1859271658736000000000000000000000000000000000000000. Thethirti-twenty-tenth number is 2788857488104000000000000000000000000000000000000000. Thethirti-twenty-eleventh number is 41332362825584000000000000000000000000000000000000000. 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- Which of the following statements about India is incorrect?
  - "Latitudinal extent of  $8^{\circ}4'N$  to  $37^{\circ}6'N$ "
  - "Longitudinal extent of  $68^{\circ}7'E$  to  $97^{\circ}25'E$ "
  - "Difference between latitudinal and longitudinal extent is about  $30^{\circ}$ "
  - "Standard Meridian of India lies at  $23^{\circ}30'N$ "
- Apart from Champaran (1917) and Kheda (1917), Mahatma Gandhi also organized the Satyagraha movement in which place?
  - Amritsar (1919)
  - Ahmedabad (1918)
  - Nagpur (1920)
  - Bardoli (1928)
- "The Constituent Assembly spent about two years, eleven months and eighteen days to complete its historic task of drafting the Constitution for Independent India." During this period, how many sessions did the Assembly hold?
  - 7 sessions
  - 9 sessions
  - 11 sessions
  - 13 sessions
- At any particular temperature, a solution that has dissolved as much solute as it is capable of dissolving is called a saturated solution. If such a solution is cooled, the excess solute
  - Evaporates from the solution
  - Separates out as crystals
  - Makes the solution unsaturated
  - Dissolves further
- In 1942, which mission did the British government send to India?
  - Cripps
  - Linlithgow
  - Cabinet
  - Lansdown
- The pH of a solution indicates the \_\_\_\_\_ based on \_\_\_\_\_
  - Acidity or alkalinity, based on hydrogen ion concentration
  - Hydrogen ion, based on Temperature of the solution
  - Hydrogen ion, based on quantity of dissolved solute
  - Acidity or alkalinity, based on the volume of solvent used

7. Which article of the Indian Constitution specifies the composition of the Rajya Sabha?

- Article 80
- Article 395
- Article 51 (A)
- Article 112

8. "Metals are lustrous, malleable and ductile and are good conductors of heat and electricity." Which of the following is a chemical property of metals?

- They are sonorous.
- They have high melting points.
- They form basic oxides.
- They are generally solid at room temperature.

9. What is the breakdown of glucose in the presence of oxygen to release energy called?

- Aerobic respiration
- Anaerobic respiration
- Fermentation
- Photosynthesis

10. Where was Maharani Lakshimbai, the courageous woman of the 1857 freedom movement, born?

- Agra
- Jhansi
- Varanasi
- Vrindavan

11. India is approximately how many degrees north of the equator?

- 6
- 10
- 8
- 7

12. Which of the following is not considered a Fundamental Duty of Indian citizens?

- Defending the country
- Safeguarding public property
- To develop philosophical temperament and spirit of curiosity
- To protect and improve the natural environment

13. If 10 joules of work is required to move 2 coulombs of charge between two points, the potential difference between the points is:

- 2 V
- 5 V
- 10 V
- 20 V

14. On which date was the Election Commission of India established?

- 25<sup>th</sup> February, 1950
- 15<sup>th</sup> August, 1950
- 26<sup>th</sup> November, 1950
- 25<sup>th</sup> January, 1950

15. Which layer of the Earth is the primary source of magma?

- Interior of the Earth's crust
- The exterior of the Earth's crust
- Core
- Mantle

16. Which among the following is the oldest folded mountain range in the world?

- Nilgiri Ranges
- Aravalli Range
- Himalayan Ranges
- Alps Ranges

17. In which year did India make its first appearance in the Olympic Games?

- 1972
- 1920
- 1974
- 1928

18. The longest continuous wall in India and the second longest in the world is found at which fort?

- Kumbhalgarh
- Chittorgarh
- Mehargarh
- Kangra

19. Who is the author of the famous novel "The God of Small Things"?

- Shashi Tharoor
- Ruskin Bond
- Vikram Seth
- Arundhati Roy

20. Who was the first Indian batsman to score four centuries in a single World Cup?

- Virender Sehwag
- Rohit Sharma
- Sachin Tendulkar
- Virat Kohli

21. A climber ascends a peak rising 8,586 meters above sea level. Which mountain has he scaled?

- Mount Everest
- Lhotse
- Kanchenjunga
- Makalu

22. In which year did Mahatma Gandhi initiate the first nationwide Satyagraha movement in India?

- 1915
- 1921
- 1919
- 1916

23. Who was the first woman in the world to receive a Nobel Prize?

- Marie Curie
- Mother Teressa
- Bertha von Suttner
- Ada Lovelace

24. Which dynasty did Iltutmish belong to?

- Tughlaq dynasty
- Slave dynasty
- Lodi dynasty
- Mughal dynasty

Who served as the President of the Indian National Congress in 1907?

- (a) Dadabhai Naoroji
- (b) Wyomesh Chandra Banerjee
- (c) Surendranath Banerjee
- (d) Rashbehari Ghosh

When was the Poona Pact signed?

- (a) 23<sup>rd</sup> October, 1930
- (b) 24<sup>th</sup> September, 1931
- (c) 24<sup>th</sup> September, 1932
- (d) 24<sup>th</sup> November, 1933

Aparna Satheesan, the recipient of the 'National Nritya Shiromani Award 2022,' is associated with which dance form?

- (a) Sattriya
- (b) Kuchipudi
- (c) Mohiniyattam
- (d) Kathak

Who is the Chairman of the Financial Stability and Development Council (FSDC) in India?

- (a) Finance Minister
- (b) Human Resource Development Minister
- (c) Home Minister
- (d) Skill Development Minister

Which state government launched a four-year mentorship program named 'Project Arohan' in February 2022 to guide students and enhance their skills?

- (a) Assam
- (b) Uttar Pradesh
- (c) Karnataka
- (d) Himachal Pradesh

What does the term 'Taiga' refer to?

- (a) Grass lands
- (b) Deserts
- (c) Deciduous forests
- (d) Coniferous forests

31. After losing which battle did Humayun flee from India?

- Panipat
- Gogra
- Khanwa
- Kannauj

32. Which type of soil is known for being rich in calcium?

- Pedocals
- Pedalfers
- Podsols
- Laterites

33. Who led the Chipko movement that began in 1973?

- Sambaji
- Baba Amte
- Sunderlal Bahuguna
- Medha Patkar

34. Which individual received the 'Best Female Debut' Award at the 2021 Paralympic Sports Awards?

- Deepa Malik
- Bhavinaben Patel
- Avani Lekhara
- Mirabai Chanu

35. Which team won the Ranji Trophy in the 2019-20 season?

- Mumbai
- Bengal
- Baroda
- Saurashtra

36. In which Indian state is the ancient Harappan site of Lothal located?

- Gujarat
- Rajasthan
- Maharashtra
- Madhya Pradesh

37. Who was the Chairman of the Union Power Committee of the Constituent Assembly of India?

- Sardar Vallabhbhai Patel
- Dr. B. R. Ambedkar
- Sir Alladi Krishnaswami Ayyar
- Pt. Jawaharlal Nehru

38. Which type of lake is created by volcanic activity?

- Caldera lake
- Karst lake
- Lagoon
- Ox-bow lake

39. In a class of 50 students, 20 play Hockey, 15 play Cricket, and 11 play Football. 7 play both Hockey and Cricket, 4 play Cricket and Football, and 5 play Hockey and Football. If 18 students do not play any of these games, how many play all three?

- 2
- 3
- 4
- 5

40. If the polynomials  $ax^3 + 4x^2 + 3x - 4$  and  $x^3 - 4x + a$  leave the same remainder when divided by  $(x - 3)$ , then the value of  $a$  is:

- 1
- 1
- $\frac{-5}{3}$
- $\frac{-7}{3}$

41. The coordinates of the centroid of a triangle are  $(3, 3)$ . If the coordinates of two vertices are  $(2, 5)$  and  $(4, 7)$ , then the coordinates of the third vertex are:

- $(1, 3)$
- $(3, -3)$
- $(5, 3)$
- $(3, 5)$

42. The area of the triangle formed by the lines  $x = 3$ ,  $y = 4$ , and  $3x + 4y = 12$  is (in square units):

- 6
- 4
- 12
- 24

43. In a parallelogram ABCD, the bisectors of  $\angle A$  and  $\angle B$  meet at P. The measure of  $\angle APB$  is:

- 45°
- 60°
- 90°
- 120°

44. Two circles of radii 10 cm and 8 cm intersect each other. The length of their common chord is 12 cm. The distance between their centers is:

- $\sqrt{7}$  cm
- $3\sqrt{7}$  cm
- $8+2\sqrt{7}$  cm
- $8+\sqrt{7}$  cm

45. The sides of a triangular field are 51 m, 37 m, and 20 m. The cost of levelling the field at ₹5 per square meter is:

- ₹1530
- ₹1836
- ₹1620
- ₹1734

46. A sphere of radius 3 cm is dropped into a cylindrical vessel partly filled with water. The radius of the vessel is 6 cm. If the sphere is completely submerged, then the rise in the water level is:

- 1 cm
- 2 cm
- 0.5 cm
- 1.5 cm

47. The mean of 25 observations is 36. If the mean of the first 13 observations is 32 and that of the last 13 observations is 39, the 13<sup>th</sup> observation is:

- 22
- 23
- 25
- 26

48. A number  $x$  is selected from the numbers 1, 2, 3, and then a second number  $y$  is randomly selected from the numbers 1, 4, 9. What is the probability that the product  $xy$  of the two numbers will be less than 9?

- 5/9
- 4/9
- 2/3
- 7/9

49. The least number that is divisible by all the numbers from 1 to 10 (both inclusive) is:

- 10
- 100
- 504
- 2520

50. If  $\alpha$  and  $\beta$  are the zeros of the polynomial  $f(x) = x^2 - 6x + k$  such that  $\alpha^2 + \beta^2 = 40$ , find the value of  $k$ .

- 8
- 2
- 2 or 8
- 8 or 2

51. The sum of the digits of a two-digit number is 9. Also, nine times this number is twice the number obtained by reversing the order of the digits. The number is:

- 18
- 27
- 36
- 45

52. If the sum of  $n$  terms of an A.P. is  $3n^2 + 5n$  and its  $m^{\text{th}}$  term is 164, find the value of  $m$ .

- 25
- 26
- 27
- 28

53. In an equilateral triangle ABC, if  $AD \perp BC$ , then which of the following is true?

- $2AB^2 = 3AD^2$
- $4AB^2 = 3AD^2$
- $3AB^2 = 4AD^2$
- $3AB^2 = 2AD^2$

54. If the points A (6, 1), B (8, 2), C (9, 4) and D ( $p$ , 3) are the vertices of a parallelogram, taken in order, find the value of  $p$ .

- 6
- 7
- 8
- 9

55. If  $\sin\theta + \sin^2\theta = 1$ , then the value of  $\cos^{12}\theta + 3\cos^{10}\theta + 3\cos^8\theta + \cos^6\theta - 1$  is:

- (a) 0
- (b) 1
- (c) -1
- (d) 2

56. Identify the non-finite clause in the sentence "He killed a snake to save the child." And its functions:

- (a) non-finite clause: He killed; function: Subject
- (b) non-finite clause: to save the child; function: Complement
- (c) non-finite clause: to save the child; function: Adjunct
- (d) non-finite clause: killed; function: Predicator

57. The question assesses complex sentence reduction. Choose the best reduction of "Because she was ill, she did not attend the class." to a non-finite clause:

- (a) Ill, she did not attend the class.
- (b) As she being ill, she did not attend the class.
- (c) Being ill, she did not attend the class.
- (d) Having been ill, she did not attend the class.

58. Identify the sentence type: "The day is quite warm because the sun is shining."

- (a) Simple
- (b) Complex
- (c) Compound
- (d) Double

59. Which sentence cannot be converted into a passive voice?

- (a) Somebody has stolen my purse.
- (b) They elected him President.
- (c) The meeting lasted two hours.
- (d) The police arrested the burglar.

60. Choose the word which is the opposite in meaning to "Filching".

- (a) Snatching
- (b) Returning
- (c) Cheating
- (d) Looting

61. In the sentence, 'Athletics is his favourite sport', 'Athletics' is

- (a) Noun
- (b) Adjective
- (c) Adverb
- (d) Pronoun

62. Choose the response which gives the correct spelling to the word :

- (a) Pronounceable
- (b) Pronounceable
- (c) Pronunciable
- (d) Pronounciable

63. Montu said, "I must go to the library today and return this book."

Change the above sentence into indirect speech:

- (a) Montu said that he had to go to the library that day and return that book.
- (b) Montu said that he must go to the library today and return the book.
- (c) Montu said that he should go to the library today to return this book.
- (d) Montu said that he will go to the library and return the book accordingly.

64. Point out the synonyms of the word - AEOLIAN

- (a) flavored with garlic
- (b) produced by the wind
- (c) bewitched
- (d) light headed through lack of sleep

65. Which of the following words is the "Antonym" of the word "Auspicious"?

- (a) Oracular
- (b) Optical
- (c) Ominous
- (d) Austere

66. A method of spelling in which the same letters represent different sounds in different words.

- (a) Heterogeneous
- (b) Heterography
- (c) Heterophemy
- (d) Homogeneous

67. Write this down \_\_\_\_\_ you should forget it.

- or
- else
- lest
- otherwise

68. No one could explain how a calm and balanced person like him could \_\_\_\_\_ such a mindless act on his friends.

- perpetuate
- perpetrate
- precipitate
- penetrate

69. Direction: In this question, out of the four alternatives, select the alternative which is the best substitute of the words/ sentence. That cannot be overcome

- Inseparable
- Insoluble
- Insurmountable
- Invincible

70. Select the most appropriate option that can substitute the underlined segment in the given sentence.

He push the bushes aside and went a little farther

- pushed with bush
- pushing the bush
- pushes in bush
- pushed the bushes

71. Which sentence uses a "demonstrative pronoun" correctly?

- This book is mine.
- She is coming soon.
- Who is there?
- Myself did the work.

72. Who holds the position of Chancellor in state universities?

- President of India
- Prime Minister of India
- Governor of a state
- Chief Minister of a state

73. In which year was the first open university established in India?

- 1982
- 1984
- 1985
- 1986

74. Which authority primarily funds open universities in India?

- Ministry of Human Resource Development
- UGC
- NCERT
- AICTE

75. When did the University Grants Commission (UGC) become a statutory body?

- 1954
- 1956
- 1955
- 1958

76. Which commission recommended the establishment of 50 National Universities?

- Kothari Education Commission (1964-1966)
- Radhakrishnan Commission (1948-1949)
- National Knowledge Commission (2005-2009)
- Mudaliar Commission (1952-1953)

77. The National Council for Teacher Education became a statutory body based on recommendations from which of the following?

- Kothari Commission Report (1964-66)
- National Policy on Education (Revised 1992)
- National Policy on Education (1986)
- Secondary Education Commission (1952-53)

78. What is the apex national advisory body on all matters concerning technical education in India?

- Information and Communication Technology (ICT)
- All India Council For Technical Education (AICTE)
- Educational Technology (ET)
- Educational and Research Network (ERNET)

79. How many Indian Institutes of Technology (IITs) are currently in India?

- 21
- 22
- 23
- 24

80. Which Article of the Indian Constitution protects the rights of minorities to establish and administer their own educational institutions?

- Article 19
- Article 29
- Article 30
- Article 31

81. Which function is used to convert a string to a list of substrings based on a delimiter?

- partition()
- split()
- divide()
- slice()

82. In negative indexing, what does list[-1] refer to?

- The first element
- The last element
- The second-to-last element
- An error

83. The concept of email, including the use of the '@' symbol, was developed by:

- Tim Berners-Lee
- Vint Cerf
- Roy Tomlinson
- Robert Kahn

84. Which switching technique is more efficient in utilizing the available bandwidth of a network channel?

- Circuit Switching, because it reserves the channel.
- Packet Switching, because the channel is free between packet transmissions.
- Both are equally efficient.
- Dedicated Path Switching.

85. In a certain language code, the word 'sky' is replaced by 'cloud', 'cloud' is referred to as 'thunder', 'thunder' is termed 'water', 'water' is called 'pot', 'pot' is identified as 'desert', and 'desert' is named 'sky'. Based on this pattern of substitution, what would be the correct term for the place where fish are typically found?

- cloud
- pot
- water
- desert

86. Arrange the following words in a logical sequence as they would appear in the English dictionary.

- Category
- Caption
- Capacity
- Capsule
- Captain

- 3, 4, 5, 2, 1
- 3, 4, 1, 2, 5
- 4, 3, 1, 2, 5
- 4, 3, 2, 1, 5

87. In the word PICKLE, how many pairs of letters can you identify (considering both left-to-right and right-to-left directions) such that the number of letters between them in the word is exactly the same as the number of letters that lie between them in the English alphabetical order?

- 2
- 1
- 4
- 5

88. In the word "CAPSULE", every consonant is replaced with the letter that comes just before it in the English alphabet, while every vowel is replaced with the letter that comes immediately after it. After making these substitutions, how many letters are there in the English alphabetical order between the fourth letter from the left and the third letter from the right in the newly formed word?

- Three
- Four
- One
- Two

89. In the following analogy, there exists a specific relationship between the first pair of words placed before the symbol (::). You are given a third word after the symbol, and your task is to choose the word from the options that shares the same relationship with the third word as the first word shares with the second.

Radians : Angle :: Mho : ?

- (a) Candela
- (b) Inductance
- (c) Conductivity
- (d) Current

90. In the question below, four combinations of letters are provided. Out of these four options, three follow a certain common pattern, while one does not fit the same pattern. Carefully examine each pair and identify the odd one out.

- (a) FGhT
- (b) YTrP
- (c) WrTQ
- (d) BHdT

91. In a row consisting of 65 students, Mr. X is positioned at the 40<sup>th</sup> place from the right end, while Mr. Y holds the 50<sup>th</sup> position from the right end. Based on this information, how many students are seated between Mr. X and Mr. Y?

- (a) 18
- (b) 9
- (c) 10
- (d) 7

92. Seven sisters named Minisha, Asha, Misha, Trisha, Leesha, Nisha, and Abhisha were each born in different years. It is known that Leesha is younger than only two of her sisters, and neither of those two is Misha. Trisha's age is greater than Minisha's but less than both Misha's and Leesha's. Minisha is not the youngest among them. Additionally, Misha is younger than Nisha, who in turn is younger than Asha. Based on this information, which sister is the youngest?

- (a) Trisha
- (b) Misha
- (c) Asha
- (d) Abhisha

93. BGO : GLT :: NFR : ?  
(a) SKV  
(b) SKW  
(c) SKX  
(d) None of these

94. Gauri is initially facing towards the North direction. After making a total of 35 right turns and 47 left turns, what direction will she be facing at the end?  
(a) North  
(b) South  
(c) West  
(d) East

95. If today is Friday, what day of the week will it be exactly 25 days from now, considering the usual sequence of days in a week?  
(a) Monday  
(b) Tuesday  
(c) Wednesday  
(d) Thursday

96. A large cube is cut into smaller cubes, resulting in a total of 1331 smaller cubes. How many times was the knife used to make all these cuts during the process of dividing the larger cube?  
(a) 33 times  
(b) 27 times  
(c) 24 times  
(d) 30 times

97. Six students named U, V, W, X, Y, and Z are standing in a row, all facing north, but not necessarily in that order. Given these conditions: W is standing immediately to the right of V; U is positioned second to the right of X; there are exactly two students standing between Z and W; and U is situated to the left of Y. Based on this information, which student is standing immediately to the right of U?  
(a) W  
(b) Z  
(c) V  
(d) Y

98. In a line consisting of 15 girls, Swati's position changed when she was moved two places to the left, after which she became the 8<sup>th</sup> girl counted from the left end of the row. Considering this change, what was Swati's original position when counted from the right end of the row?

(a) 6<sup>th</sup>  
 (b) 5<sup>th</sup>  
 (c) 7<sup>th</sup>  
 (d) 10<sup>th</sup>

99. In a group of 85 students, it is known that 11 students do not like either of the two streams: Science or Commerce. Additionally, 8 students like both Science and Commerce streams. The number of students who like only Commerce is equal to the number who like only Science. Based on this information, how many students like only the Science stream?

(a) 35  
 (b) 31  
 (c) 33  
 (d) 41

100. Consider the letters of a capital city's name assigned with their respective positions as follows: N=1, P=2, J=3, A=4, A=5, and I=6. If these letters are rearranged correctly to form a valid name of a capital city, what would be the third letter in the newly formed word, assuming each letter is used only once?

(a) J  
 (b) P  
 (c) A  
 (d) N

Hall Ticket No.:

**PAPER - II****Descriptive Type Questions****Note :** 1) Candidate should write answers in ENGLISH language only.

2) Candidate is required to return the question paper along with answer booklet to the Invigilator after the examination.

**Duration: 02:00 hours (Two Minutes)****Maximum Marks: 100**1. Attempt any one in a minimum of 200 words.  $(1 \times 10 = 10 \text{ Marks})$ 

a) Analyze the role of clear and professional communication in creating a productive and harmonious workplace culture.

b) Why is embracing social, cultural, and professional diversity important in universities? Describe policies or practices that foster an inclusive environment.

2. Attempt in a minimum of 300 words.  $(1 \times 15 = 15 \text{ Marks})$ 

A university department has compiled the following 10 year dataset of its student statistics. Carefully analyze the data and identify the key trends. Based on your observations, explain the possible causes of the observed patterns and suggest suitable administrative measures to address the issues.

Year	Applications	Average Entry Score	Enrolled	% of Female	% of SC/ST/OBC	1st Year Dropout (%)	Placement Rate (%)
2015	1230	77	243	41%	37%	5	84
2016	1178	76	231	41%	36%	6.1	86
2017	1055	75	209	40%	35%	7.4	83
2018	990	73	198	39%	34%	8.9	78
2019	904	72	184	38%	33%	9.7	76
2020	870	70	163	37%	31%	10.3	72
2021	845	69	158	36%	30%	11.2	68
2022	895	69	162	35%	29%	11.5	67
2023	930	68	161	35%	29%	12.3	63
2024	980	67	159	34%	28%	13	60

3. Attempt any one in a minimum of 300 words. (1 × 15 = 15 Marks)

- a) Write a detailed letter to your Vice Chancellor proposing the digitization of academic records in the university. Justify the steps and anticipated challenges.
- b) Prepare a draft letter addressed to a newly appointed Assistant Professor, informing him/her about the terms and conditions of the appointment and joining formalities.

4. Attempt any one in a minimum of 300 words. (1 × 15 = 15 Marks)

- a) Discuss the procedures involved in processing an annual budget proposal in a University, highlighting the role of the Finance and Accounts Section.
- b) Describe in detail the steps followed by the Establishment Section for processing a proposal for promotion of a permanent employee.

5. Attempt in a minimum of 300 words. (1 × 15 = 15 Marks)

A newly established department faces issues integrating with central accounts and administration. As a university administrator, outline a step-by-step plan to ensure smooth on boarding, including coordination between establishment, accounts, and academics.

6. Attempt in a minimum of 300 words. (1 × 15 = 15 Marks)

A faculty member accuses a colleague of academic misconduct, triggering complex procedural requirements. Describe the administrative steps from complaint to resolution, ensuring procedural fairness and compliance.

7. Attempt in a minimum of 300 words. (1 × 15 = 15 Marks)

Critically analyze the challenges faced by universities in implementing the Choice-Based Credit System (CBCS) and suggest practical measures to overcome these challenges.

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