QUESTION PAPER

TIME	: 90 MINUTES
NUMBER OF QUESTIONS	: 100
SECTIONS	: 04

Please open the Question Paper only when you are instructed to do so.
Rough work may be done in the margin of the Question Paper only.
Answer Sheet is provided separately. Please use HB pencil to blacken your choice of answer.
The Question Paper has to be returned with the Answer Sheet attached.

School of Liberal Studies, PDPU Campus, Raisan, Gandhinagar - 382007, Gujarat, India.

PDPU
PANDIT DEENDAYAL PETROLEUM UNIVERSITY
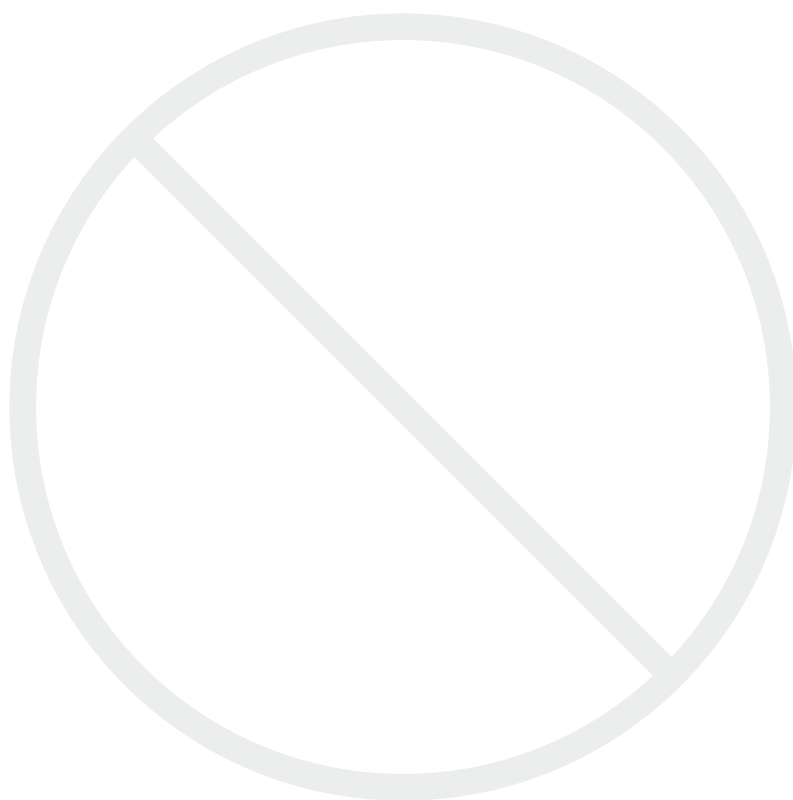Recognised by UGC • NAAC 'A' Grade

SLS
SCHOOL OF
LIBERAL
STUDIES

This paper carries 4 sections.
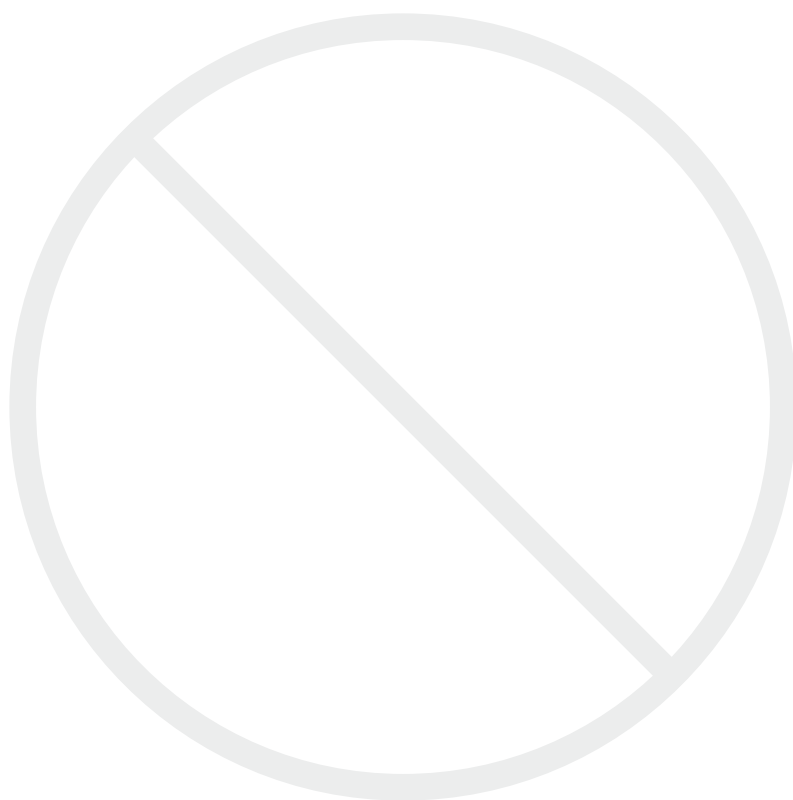# The number of questions in each section are:

SECTION - 1	GENERAL AWARENESS	40 QUESTIONS
SECTION - 2	VERBAL ABILITY	20 QUESTIONS
SECTION - 3	QUANTITATIVE ABILITY	20 QUESTIONS
SECTION - 4	LOGICAL REASONING	20 QUESTIONS

TIME : 90 MINUTES

SECTION 1

GENERAL AWARENESS

1. **The hyoid bone is associated to**
   A. Lever   **B.** Kidney   **C.** Lungs   **D.** Tongue

2. **The First Battle of Panipat (1526) was fought between**
   A. Mir Qasim and Hector Munro   **B.** Bairam Khan and Hemu
   C. Ahmad Shah Abdali and Sadashivrao Bhau   **D.** Babur and Ibrahim Lodi

3. **Which country is in news for the introduction of Climate Change Refugee Visa Programme?**
   A. India   **B.** New Zealand   **C.** Uzbekistan   **D.** Kazakhstan

4. **The Election Commission of India consists of _____ members**
   A. One   **B.** Two   **C.** Three   **D.** Four

5. **Who is popularly known as the 'Queen of Indian Track and Field'?**
   A. P.T. Usha   **B.** Deepika Kumari   **C.** Geeta Phogat   **D.** Mithali Raj

6. **World's second tallest statue is**
   A. Spring Temple Buddha (China)   **B.** Statue of Unity (India)
   C. Laykyun Sekkya (Myanmar)   **D.** Statue of Liberty (USA)

7. **The longest part of the gastrointestinal tract is**
   A. Small Intestine   **B.** Esophagus   **C.** Mouth   **D.** Stomach

8. **The concept 'Sanskritisation' has been well developed by**
   A. G. S. Ghurye   **B.** Ashish Nandy   **C.** Dipankar Gupta   **D.** M. N. Srinivas

9. **The Writs of the Indian constitution are mentioned in the article _____ of the Constitution**
   A. Article 30   **B.** Article 32   **C.** Article 33   **D.** Article 34

10. **Which state is the largest producer of guar (about 70%) in India?**
    A. Odisha   **B.** West Bengal   **C.** Rajasthan   **D.** Andhra Pradesh

11. **Lungs are largely associated with**
    A. Respiration   **B.** Digestion   **C.** Blood formation   **D.** Nervous

12. **The ongoing Trade War is basically seen between**
    A. France and India   **B.** Argentina and Brazil
    C. US and China   **D.** Australia and New Zealand

13. **Biodiesel is produced from _____ plants**
   A. Cotton   B. Jute   C. Cane   D. Jatropha

14. **The first research station of India in Antarctica is**
   A. Dakshin Gangotri   B. Maitri   C. Bharati   D. None of these.

15. **Who was awarded with Dada Saheb Phalke Award in 2018?**
   A. Vinod Khanna   B. Sridevi   C. Ridhhi Sen   D. Shekhar Kapur

16. **Which is not a programme announced by Prime Minister Narendra Modi?**
   A. Pradhan Mantri Jan Dhan Yojana   B. Make in India
   C. Pradhan Mantri Ujjwala Yojana   D. Pradhan Mantri Gram Sadak Yojana

17. **The 2019 Indian General Election will constitute _____ Lok Sabha.**
   A. 16th   B. 17th   C. 18th   D. 19th

18. **Who is the author of the book Devil's Advocate: The Untold Story?**
   A. Arnab Goswami   B. Karan Thapar C. Barkha Dutt   D. Prannoy Roy

19. **Who is the author of the book 'Gandhi: The Years that Changed the World'?**
   A. Ramachandra Guha   B. Romila Thapar C. Bipan Chandra D. Irfan Habib

20. **The Sanskrit play Svapnavasavadattam was written by**
   A. Kalidasa   B. Bhasa   C. Tulsidas   D. Panini

21. **Pongal is basically a _____ festival**
   A. Mass Wedding   B. Animal sacrifice C. Harvesting   D. Kite

22. **Maasai is an ethnic community in**
   A. Argentina & Brazil   B. Afghanistan & Pakistan
   C. Kyrgyzstan & Tajikistan   D. Kenya & Tanzania

23. **The rhetoric 'America First' has been largely used by**
   A. Barack Obama   B. Donald Trump C. George Bush   D. Hillary Clinton

24. **The Saharan desert is in**
   A. Central Asia   B. Europe   C. Australia   D. Africa

25. The United Kingdom consists of

A. England, Wales, Scotland, Northern Ireland   B. England, Wales, Ireland, Iceland

C. England, Iceland, Ireland, Northern Ireland   D. England, Wales, Ireland, Northern Ireland

26. The disease Zika is caused by

A. Bacteria   B. Fungi   C. Virus   D. Worm

27. The longest bone in the human body is

A. Tibia   B. Femur   C. Fibula   D. Humerus

28. Leap Year happens in every

A. 4th year   B. 5th year   C. 6th year   D. 8th year

29. Which of the following is used in pencil?

A. Charcoal   B. Silicon   C. Phosphorus   D. None of these

30. The element common to all acids is

A. Oxygen   B. Sulphur   C. Hydrogen   D. Carbon dioxide

31. Which of the following crops need maximum water per hectare?

A. Jowar   B. Sugarcane   C. Wheat   D. Maize

32. In fireworks, the green flame is produced because of

A. Barium   B. Sodium   C. Oxygen   D. Mercury

33. What is Laughing Gas?

A. Carbon monoxide   B. Nitrous oxide   C. Sulphur dioxide   D. Carbon dioxide

34. The first bowler to take a hat-trick in a Cricket World Cup

A. Chetan Sharma   B. Kapil Dev   C. Malcolm Marshall   D. Imran Khan

35. Which metal pollutes most?

A. Lead   B. Cadmium   C. Copper   D. None of these

36. The oldest mountain ranges in India are

A. Vindhyas   B. Satpuras   C. Nilgiri hills   D. Aravalis

37. In India, the National Sports Day (NSD) is celebrated every year on August 29 to mark the birth anniversary of

    A. Raman Lamba   **B.** Vinoo Mankad   **C.** Major Dhyan Chand   **D.** Rajiv Gandhi

38. The Mummification of dead bodies was largely practised in

    A. Egypt   **B.** Australia   **C.** Portuguese   **D.** Sri Lanka

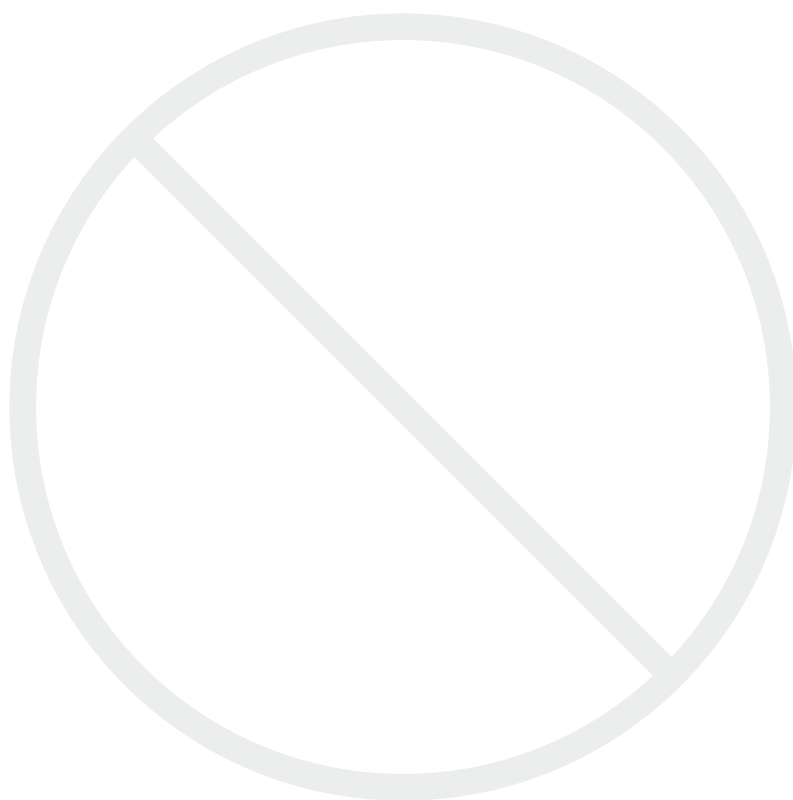**39. Who is popularly known as Flying Sikh?**

    A. Harbhajan Singh   **B.** Milkha Singh   **C.** Yuvaraj Singh   **D.** Navjot Singh Sidhu

40. The natural region that is observed in the Indian subcontinent is

    A. Equatorial   **B.** Mediterranean   **C.** Hot desert   **D.** Monsoon

SECTION 2

VERBAL ABILITY

Read the following passage carefully and encircle the correct answer option given below the passage.

PASSAGE - 1

A significant step on the way to the top was the domestication of fire. Some human species may have made occasional use of fire as early as 800,000 years ago. But about 300,000 years ago, Homo erectus, Neanderthals, and the forefathers of Homo sapiens were using fire on a daily basis. Humans now had a dependable source of light and warmth, and a deadly weapon against prowling lions. Not long afterwards, humans may even have started deliberately to torch their neighbourhoods. A carefully managed fire could turn impassable barren thickets into prime grasslands teeming with game. In addition, once the fire died down, Stone age entrepreneurs could walk through the smoking remains and harvest charcoaled animals, nuts, and tubers.

But the best thing fire did was cook. Foods that humans cannot digest in their natural forms - such as wheat, rice, and potatoes - became staples of our diet thanks to cooking. Fire not only changed food's chemistry, it changed its biology as well. Cooking killed germs and parasites that infested food. Humans also had a far easier time chewing and digesting old favourites such as fruits, nuts, insects and carrion if they were cooked. Whereas chimpanzees spend five hours a day chewing raw food, a single hour suffices for people eating cooked food.

The advent of cooking enabled humans to eat more kinds of food, to devote less time to eating, and to make do with smaller teeth and shorter intestines. Some scholars believe there is a direct link between the advent of cooking, the shortening of the human intestinal track, and the growth of the human brain. Since long intestines and large brains are both massive energy consumers, it's hard to have both. By shortening the intestines and decreasing their energy consumption, cooking inadvertently opened the way to the jumbo brains of Neanderthals and Sapiens.

41. **By changing food's chemistry, fire _____**
    A. killed germs and parasites that infested food.
    B. made it easier to digest foods which could not be digested by humans in natural forms.
    C. made it easier to chew old favourites.
    D. decreased energy consumption during digestion.

42. **According to this passage, which foods were eaten by humans even before the use of fire for cooking?**
    A. fruits, nuts, insects and carrion   **B.** wheat, rice, and potatoes
    C. charcoaled animals   **D.** nuts, and tubers

43. **The meaning of the word "advent" in the context of the passage is**
    A. Departure   **B.** Return   **C.** Visitation   **D.** Arrival

44. **Which of the following did not occur due to the use of fire for cooking?**
    A. Shorter intestines   **B.** Smaller brains   **C.** Smaller teeth   **D.** More variety in diet

45. **What does the word "teeming with game" mean?**
    A. Filled with animals   **B.** Group of sportspersons
    C. Filled with activities   **D.** Full of grass

46. The phrase "torch their neighbourhoods" means

    A. Guard their territory   **B.** Provide light in the area

    C. Set fire to nearby areas   **D.** Lead the way into the neighbourhood

47. What is the main idea of the passage?

    A. To provide a history of Homo sapiens

    B. To describe the important event of the discovery of fire and cooking

    C. To highlight the importance of fire and cooking in human evolution

    D. To discuss the evolution of the human brain

48. Cooking does not make it

    A. easier to digest food.   **B.** easier to chew food.

    C. easy to find food.   **D.** easy to kill germs.

49. "A significant step on the way to the top was the domestication of fire." This statement means that

    A. Fire is important for the domestication of species.

    B. It is important to have fire to succeed.

    C. Control over fire enabled the human species to reach the top of the food chain.

    D. Fire is one of the steps in creating jumbo brains.

50. Choose a synonym of the word "inadvertently" from the following choices:

    A. Unintentionally   **B.** Deliberately   **C.** Surreptitiously   **D.** Unnecessarily

Read the following passage carefully and encircle the correct answer option given below the passage.

PASSAGE - 2

ONE DOLLAR AND EIGHTY-SEVEN CENTS. That was all. And sixty cents of it was in pennies. Pennies saved one and two at a time by bulldozing the grocer and the vegetable man and the butcher until one's cheek burned with the silent imputation of parsimony that such close dealing implied. Three times Della counted it. One dollar and eighty-seven cents. And the next day would be Christmas. There was clearly nothing left to do but flop down on the shabby little couch and howl. So Della did it. Which instigates the moral reflection that life is made up of sobs, sniffles, and smiles, with sniffles predominating. While the mistress of the home is gradually subsiding from the first stage to the second, take a look at the home. A furnished flat at $8 per week. It did not exactly beggar description, but it certainly had that word on the look-out for the mendicancy squad. In the vestibule below was a letter-box into which no letter would go, and an electric button from which no mortal finger could coax a ring. Also appertaining thereunto was a card bearing the name 'Mr. James Dillingham Young.' The 'Dillingham' had been flung to the breeze during a former period of prosperity when its possessor was being paid $30 per week. Now, when the income was shrunk to $20, the letters of 'Dillingham' looked blurred, as though they were thinking seriously of contracting to a modest and unassuming D. But whenever Mr. James Dillingham Young came home and reached his flat above he was called 'Jim' and greatly hugged by Mrs. James Dillingham Young, already introduced to you as Della. Which is all very good.

Della finished her cry and attended to her cheeks with the powder rag. She stood by the window and looked out dully at a grey cat walking at grey fence in a grey backyard. Tomorrow would be Christmas Day, and she had only $1.87 with which to buy Jim a present. She had been saving every penny she could for months, with this result. Twenty dollars a week doesn't go far. Expenses had been greater than she had calculated. They always are. Only $1.87 to buy a present for Jim. Her Jim. Many a happy hour she had spent planning for something nice for him. Something fine and rare and sterling - something just a little bit near to being worthy of the honour of being owned by Jim. There was a pier-glass between the windows of the room. Perhaps you have seen a pier-glass in an $8 flat. A very thin and very agile person may, by observing his reflection in a rapid sequence of longitudinal strips, obtain a fairly accurate conception of his looks. Della, being slender, had mastered the art. Suddenly she whirled from the window and stood before the glass. Her eyes were shining brilliantly, but her face had lost its colour within twenty seconds. Rapidly she pulled down her hair and let it fall to its full length. Now, there were two possessions of the James Dillingham Youngs in which they both took a mighty pride. One was Jim's gold watch that had been his father's and his grandfather's. The other was Della's hair. Had the Queen of Sheba lived in the flat across the airshaft, Della would have let her hair hang out the window someday to dry just to depreciate Her Majesty's jewels and gifts. Had King Solomon been the janitor, with all his treasures piled up in the basement, Jim would have pulled out his watch every time he passed, just to see him pluck at his beard from envy.
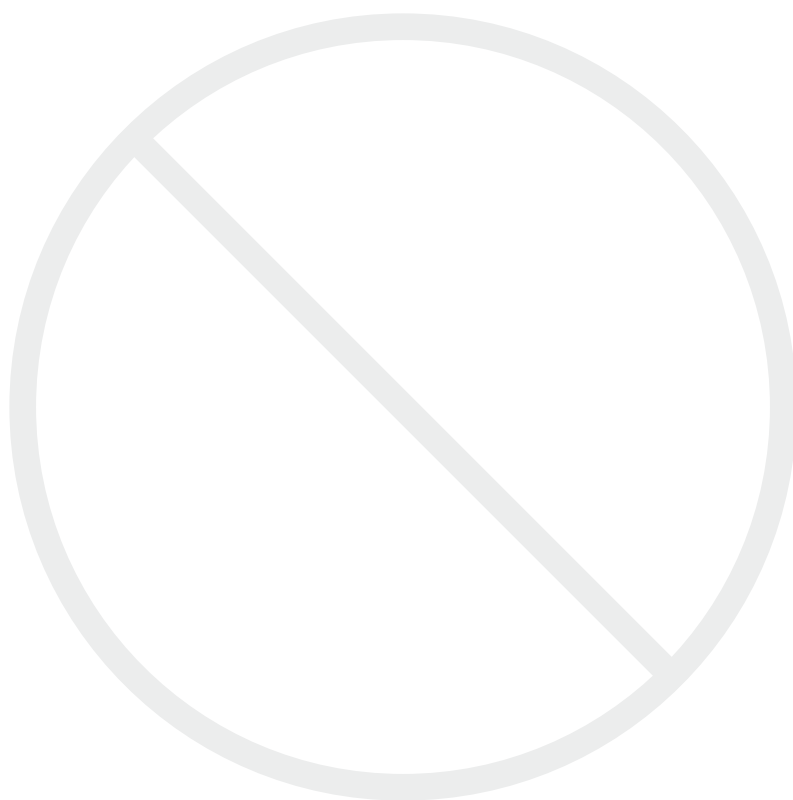
51. **Which of the following is true, according to the story?**
    A. The queen of Sheba lived in the flat across Della's
    B. King Solomon was the janitor
    C. The Youngs lived in near-poverty
    D. Della borrowed the one dollar and eighty-seven cents from the grocer, the vegetable man and the butcher.

52. **"Which instigates the moral reflection that life is made up of sobs, sniffles, and smiles, with sniffles predominating." Which of the following does this statement convey, in the context of the passage?**
    A. Life is made up of joys and sorrows, with more sorrows than joys.
    B. Life is made up of joys and sorrows, with more joys than sorrows.
    C. Life is a moral reflection on sobbing and sniffling.
    D. Life is full of sorrows.

53. **What can you infer about Della from this passage?**
    A. She had more wealth than the Queen of Sheba.
    B. She had hardly any money and blamed her husband Jim for it.
    C. Jim did not deserve the honour of a gift that cost one dollar and eighty-seven cents.
    D. She believed that Jim deserved a gift worth far more than the one dollar and eighty-seven cents that she had saved.

54. **Why was Della crying after counting her money three times?**
    A. She had lost a lot of the money she had saved.
    B. Jim did not make enough money for them to live comfortably.
    C. She did not have enough money for a Christmas gift for Jim, in spite of carefully saving money.
    D. She wanted as many jewels and gifts as the queen had.

55. **What kind of life do you think the Dillingham Youngs had?**
    A. A very weary life with no money and limited comforts.
    B. A life of dissatisfaction and envy for the jewels and gifts of their neighbours.
    C. A life which with nothing to value or cherish.
    D. A life with minimal material comforts, but great pride and love for each other.

56. **The word "parsimony" means**
    A. Miserliness   **B.** Saintliness   **C.** Sinfulness   **D.** Hardheartedness

57. **"She stood by the window and looked out dully at a grey cat walking a grey fence in a grey backyard." Name the figure of speech used in this sentence.**
    A. Simile   **B.** Repetition   **C.** Onomatopoeia   **D.** Hyperbole

58. **"Her eyes were shining brilliantly, but her face had lost its colour within twenty seconds." Which part of speech is the word "brilliantly"?**
    A. Noun   **B.** Verb   **C.** Adjective   **D.** Adverb

59. **What type of sentence is the following: "Tomorrow would be Christmas Day, and she had only $1.87 with which to buy Jim a present."**
    A. Simple   **B.** Compound   **C.** Complex   **D.** Transitive

60. **The word "howl" in the selected passage means**
    A. To cry silently   **B.** To cry loudly   **C.** To scream with rage   **D.** To rest

SECTION 3

QUANTITATIVE ABILITY

61. What comes next in the pattern?
36, 30, 42, 30, 48, …..
A. 30   **B.** 32   **C.** 24   **D.** 20

62. What is the correct answer to this question? 24 – 6 x 3 = ?
A. 8   **B.** 6   **C.** 54   **D.** 18

63. Which is the largest? ¼, 2/5, 2/7 or 0.3?
A. ¼   **B.** 2/5   **C.** 2/7   **D.** 0.3

64. What is the harmonic mean of 2,3,4,4?
A. 4   **B.** 5   **C.** 3   **D.** 6

65. What is "30 divided by half and then add 10"?
A. 70   **B.** 25   **C.** 40   **D.** 41

66. If I roll a fair dice, what is the probability of getting a multiple of 3?
A. 1/6   **B.** ½   **C.** 1/3   **D.** 5/6

67. What is this shape: it has 4 equal length sides and 2 pairs of equal angles?
A. Square   **B.** Rectangle   **C.** Rhombus   **D.** Parallelogram

68. A waiter served 23 colas out of a total 111 drinks. Give the probability of cola as the next order?
A. 0.295   **B.** 0.792   **C.** 1   **D.** 0.207

69. The sum of squares of two numbers is 80 and the square of the difference between the two numbers is 36. Find the product of two numbers.
A. 36   **B.** 22   **C.** 48   **D.** 24

70. The age of a man is 4 time of his son. Five years ago, the man was nine times old as his son was at that time. The present age of man is?
A. 30   **B.** 32   **C.** 8   **D.** 40

71. Find out the wrong number in the given sequence of numbers: 1, 2, 6, 15, 31, 56, 91
A. 31   **B.** 56   **C.** 15   **D.** 91

72. A man took loan from a bank at the rate of 12% p.a. simple interest. After 3 years he had to pay Rs. 5400 interest only for the period. The principal amount borrowed by him was:
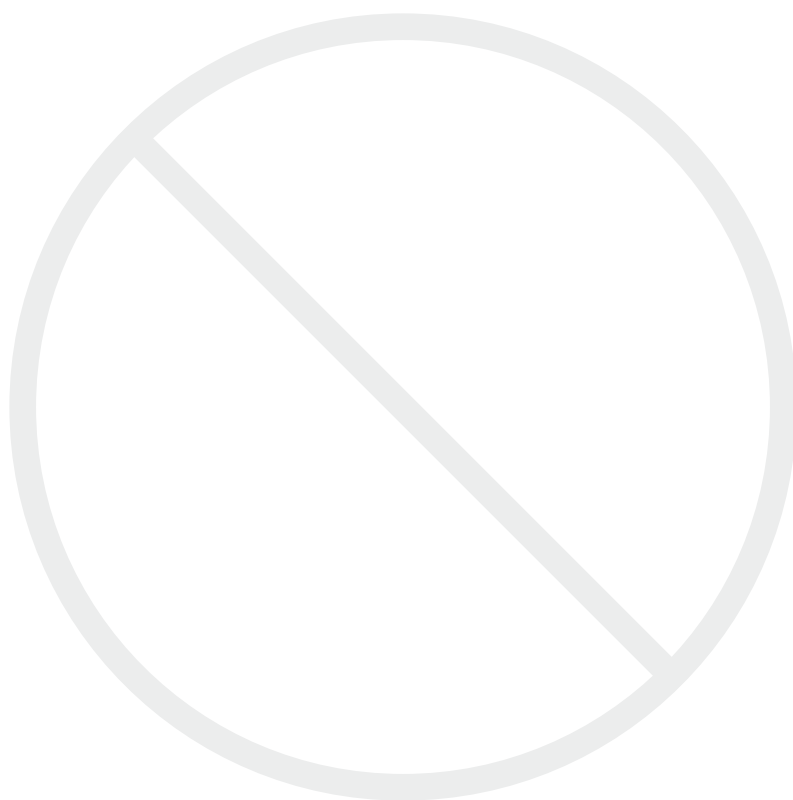**A.** Rs. 2000   **B.** Rs. 10,000   **C.** Rs. 15,000   **D.** Rs. 20,000

73. A bag contains 6 white and 4 black balls, 2 balls are drawn at random. Find the probability that they are of same colour.
A. ½   **B.** 7/15   **C.** 8/15   **D.** 1/9

74. **The average weight of a class of 24 students is 35 kg. If the weight of the teacher be included, the average rises by 400 g. The weight of the teacher is**
    A. 45 kg   **B.** 46 kg   **C.** 47 kg   **D.** 48 kg

75. **The cost price of 40 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:**
    A. 16   **B.** 32   **C.** 36   **D.** 48

76. **A boy travelled each half of the total distance from home to college at average speed of 40 km per hour and 60 km per hour. What is average speed at which the boy has travelled?**
    A. 48   **B.** 50   **C.** 52   **D.** 54

77. **If selling price is doubled, the profit triples. Find the profit percent.**
    A. 66.67   **B.** 105.33   **C.** 120   **D.** 100

78. **The square root of 0.0121 is**
    A. 0.011   **B.** 1.21   **C.** 0.11   **D.** 0.0011

79. **If the circumference of a circle is doubled then the area of the circle**
    A. Increases four times   **B.** Increases two times
    C. Decreases four times   **D.** Remains same

80. **In a 50 over cricket game required run rate to win at the beginning of the last over was 15. The first ball was dot. What is the required run-rate now?**
    A. 15   **B.** 18   **C.** 21   **D.** None of the above

SECTION 4

LOGICAL REASONING

81. **What are the next numbers in order?**

    3   5 35 10 12 35 17
    A. 22 35   **B.** 35 19   **C.** 19 35   **D.** 19 24

82. **Which word does NOT belong with the others?**
    A. Unimportant   **B.** Trivial   **C.** Insignificant   **D.** Familiar

83. **P5QR, P4QS, P3QT, _____, PQV**
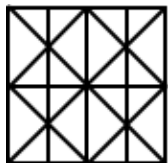   **A.** PQW   **B.** PQV2   **C.** P2QU   **D.** PQ3U

84. **Find the minimum number of straight lines required to make the given figure.**

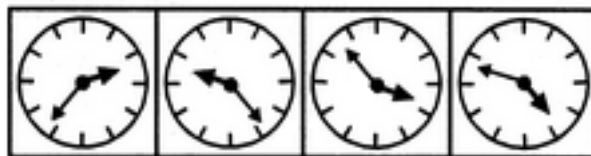   **A.** 11   **B.** 14   **C.** 16   **D.** 17

85. **Choose the correct mirror image of the given figure (X) from amongst the four alternatives.**

    (X)   (1)   (2)   (3)   (4)

    A. 1   **B.** 2   **C.** 3   **D.** 4

86. **Choose the alternative which closely resembles the mirror image of the given combination.**

    A. 1   **B.** 2   **C.** 3   **D.** 4

87. **If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH?**
    A. 216473   **B.** 246173   **C.** 214673   **D.** 214763

88. Ignorance : Education : : Disease : ?
　　A. Hospital　　　　　　**B.** Doctor　　　　　　**C.** Medicine　　　　　**D.** Nurse

89. Pointing to a photograph of a boy Suresh said, "He is the son of the only son of my mother." How is Suresh related to that boy?
　　A. Brother　　　　　　**B.** Uncle　　　　　　**C.** Cousin　　　　　　**D.** Father

90. Statements:
　　• All the schools in the area had to be kept closed for most part of the week.
　　• Many parents have withdrawn their children from the local schools.
　　A. Statement I is the cause and statement II is its effect
　　B. Statement II is the cause and statement I is its effect
　　C. Both the statements I and II are independent causes
　　D. Both the statements I and II are effects of independent causes

91. Statements:
　　• There is sharp decline in the production of oil seeds this year.
　　• The Government has decided to increase the import quantum of edible oil.
　　A. Statement I is the cause and statement II is its effect
　　B. Statement II is the cause and statement I is its effect
　　C. Both the statements I and II are independent causes
　　D. Both the statements I and II are effects of independent causes

92. Sunita rode her scooty northwards, then turned left and then again rode to her left 4 km. She found herself exactly 2 kms west of her starting point. How far did she ride northwards initially?
　　A. 2 km　　　　　　**B.** 4 km　　　　　　**C.** 5 km　　　　　　**D.** 6 km

93. Unscramble the following letters to frame a meaningful word. Then find out the correct numerical position of the letters:

B C U S M E L R N A
1 2 3 4 5 6 7 8 9 10

　　A. 61432587910　　**B.** 31571042698　　**C.** 39428105176　　**D.** 21346897510

94. The fourth proportional to 5, 8, 15 is:
　　A. 18　　　　　　　**B.** 24　　　　　　　**C.** 19　　　　　　　**D.** 20

95. On 8th Feb, 2005 it was Tuesday. What was the day of the week on 8th Feb, 2004?
　　A. Tuesday　　　　　**B.** Monday　　　　　**C.** Sunday　　　　　**D.** Wednesday

96. **Mamta's rank is 21st from the top and 15th from the bottom in the class. How many students are there in the class?**
   A. 35   **B.** 29   **C.** 36   **D.** 27

97. **If South-East becomes North, North-East becomes West and so on. What will West become?**
   A. North-East   **B.** South-East   **C.** North-West   **D.** South-West

98. **Choose the odd numeral pair/group in each of the following question:**
   A. 22-3   **B.** 28-4   **C.** 36-6   **D.** 43-6

99. **Atmosphere always has:**
   A. Oxygen   **B.** Air   **C.** Germs   **D.** Moisture

100. **What is always in 'Worry'?**
   A. Difficulty   **B.** Poignancy   **C.** Non-cooperation   **D.** Unrest

**YOU CAN USE THE SPACE
FOR ROUGH WORK**