"Let it be Still. And it will gradually become Clea..."

SLS SCHOOL OF LIBERAL STUDIES

SOMETIMES CHOICE IS IRRATIONALLY RATIONAL.

"To know the Road Ahead, ask those Coming Back."

...others, it will also Brighten your own Path."

PDPU

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.

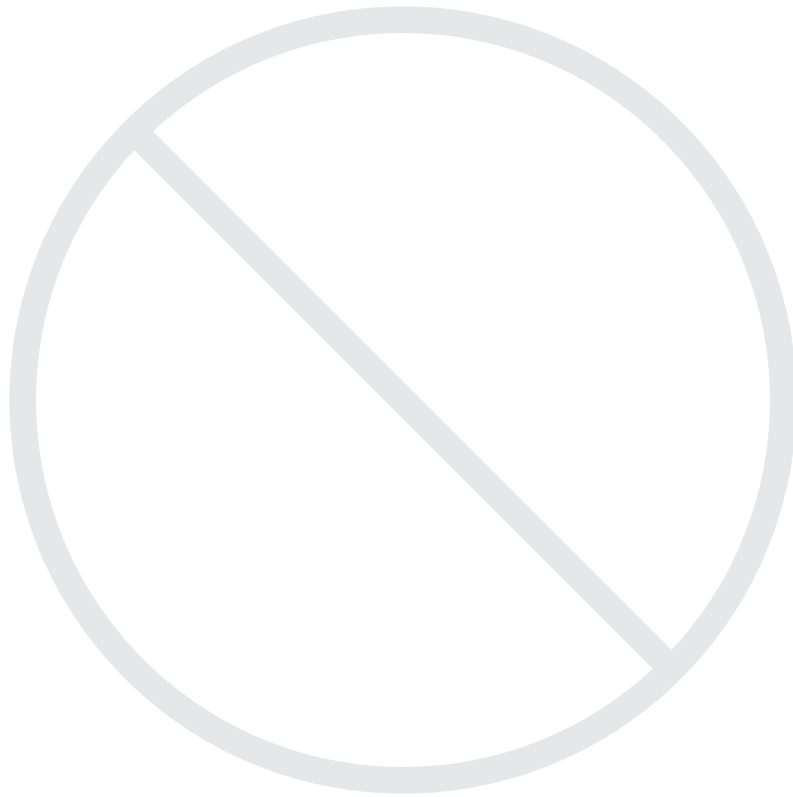School of Liberal Studies, PDPU Campus, Raisan, Gandhinagar - 382007, Gujarat, India.

PDPU
PANDIT DEENDAYAL PETROLEUM UNIVERSITY
www.sls.pdpu.ac.in

SLS SCHOOL OF LIBERAL STUDIES

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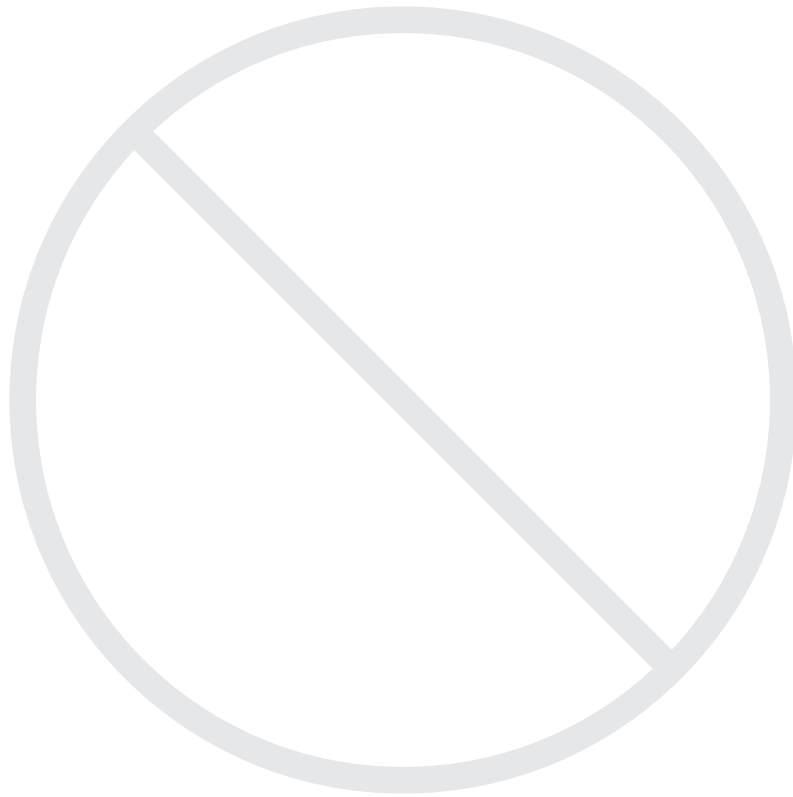## The number of questions in each section are:

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. **From the north to the south, what is the sequence of the Himalayan mountain ranges?**
   A. Ladakh, Zanskar, Pir Panjal, Karakoram   B. Karakoram, Ladakh, Zanskar, Pir Panjal
   C. Zanskar, Karakoram, Ladakh, Pir Panjal   D. Pir Panjal, Zanskar, Karakoram, Ladakh

2. **Which is the first agency of socialization?**
   A. Family   B. School   C. Peer groups   D. Mass media

3. **Tippani is a popular folk dance in**
   A. Gujarat   B. Odisha   C. Kerala   D. Jammu & Kashmir

4. **Which one is true regarding BREXIT?**
   A. Exit of Britain from World Trade Organisation   B. Exit of Britain from NATO
   C. Exit of Britain from European Union   D. Exit of Britain from League of Nations

5. **Who is the ex-officio Chairman of Rajya Sabha in the Indian Parliament?**
   A. President of India   B. Vice President of India
   C. Speaker of Lok Sabha   D. Deputy Speaker of Lok Sabha

6. **The play Abhijnashakuntalam was written by**
   A. Kalidas   B. Barahmihir   C. Dhanwantari   D. Vishakhadatta

7. **Which blood group is universal recipient?**
   A. O Negative   B. B Positive   C. O Positive   D. AB

8. **Which country today is the world's biggest two-wheeler market?**
   A. Mexico   B. Indonesia   C. China   D. India

9. **Who led Aligarh Movement?**
   A. Sir Sayyid Ahmed Khan   B. Salim Ullah Khan
   C. Ashfaqulla Khan   D. Maulana Abul Kalam Azad

10. **Who is recently elected as the president of France?**
    A. Jacques Chirac   B. Nicholas Sarkozy   C. François Hollande   D. Emmanuel Macron

11. **The moment where the Earth's equator passes through the center of the sun is called**
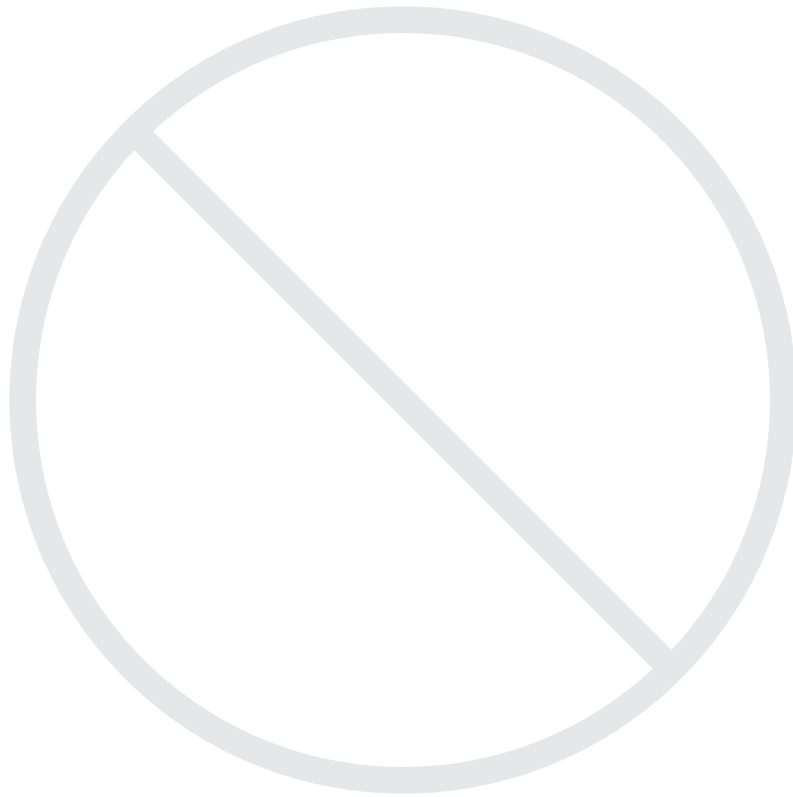   A. Equinox   B. Summer Solstice   C. Winter Solstice   D. None of these

12. Urja Ganga project in India is associated with

A. Supply of electricity to the residents of Varanasi

B. Supply of cooking gas to the residents of Varanasi

C. Supply of drinking water the residents of Varanasi

D. Supply of solar lamp to the residents of Varanasi

13. Which was the immediate factor for India's surgical strike against Pakistan?

A. Uri attack   B. Pathankot attack   C. Shopian   D. Kulgam

14. Light Year is

A. The maximum distance between sun and earth in a year

B. The maximum sunlight received by earth in a year

C. The distance traveled by light in one year

D. None of these

15. Which country won T20 Blind World Cup, 2017?

A. India   B. Pakistan   C. Australia   D. New Zealand

16. Ku Klux Klan (KKK) is the right-wing extremist organization in

A. Mongolia   B. USA   C. Botswana   D. Argentina

17. The renowned Sudarsan Pattnaik is a ------------artist

A. Sand   B. Marble   C. Wood   D. None of these.

18. In 1757, there was a decisive battle between the Nawab of Bengal and his French allies, in one hand, and British East India Company, on the other. Name the battle.

A. Buxar   B. Plassey   C. Sepoy Mutiny   D. Wandiwash

19. The gas used as a disinfectant in drinking water is

A. Fluorine   B. Chlorine   C. Oxygen   D. Hydrogen

20. Which country recently voted a UN Resolution that would have imposed sanctions on Syria over chemical weapons use?

A. USA   B. UK   C. China   D. France

21. Which is not related to demonetization?

A. removing old currency from the market   B. issue of new currency

C. prevention of black money   D. None of these

22. The CNN TV belongs to

A. Saudi Arabia

B. Russia

C. United States of America

D. South Africa

23. Which category of vehicles has recently been banned by the Supreme Court of India?

A. BS-I

B. BS-II

C. BS-III

D. BS-IV

24. The Vienna Convention on Diplomatic Relations was signed in

A. 1961

B. 1962

C. 1963

D. 1964

25. Which country will host Hockey World Cup, 2018?

A. Malaysia

B. India

C. Netherlands

D. Japan

26. Which acid is used in the body to help digestion?

A. Hydrochloric Acid

B. Sulphuric Acid

C. Acetic Acid

D. Boric Acid

27. In India which card is compulsory to get subsidized foodgrains from the ration shops?

A. Voter Identity card

B. Driving License

C. Aadhar

D. None of the above

28. Who launched Facebook in 2004?

A. Sandy Gilpin

B. Mark Zuckerberg

C. Michael Ford

D Francis Edward

29. The Manhattan project (1942-1945) of the United States was related to

A. Nuclear bomb

B. ICBM

C. Satellite launching

D. Industrial development

30. The Ottoman Empire was basically confined to

A. Turkey

B. Iran

C. Afghanistan

D. Libya

31. The disease Bronchitis is associated to

A. Lungs

B. Lever

C. Kidney

D. Heart

32. Depreciation means

A. Closure of plant due to lock out

B. Closure of plant due to labour trouble

C. Destruction of plant due to fire accident

D. Loss of equipment over time due to wear and tear

33. The average salinity of sea water is

A. 3%

B. 3.5%

C. 2.5%

D. 1.5%

34. **The country which will introduce new satellite-based airplane tracking system.**

    A. Singapore   B. Vietnam   C. Laos   D. Malaysia

35. **The Ozone layer lies in the**

    A. Stratosphere   B. Troposphere   C. Mesosphere   D. Ionosphere

36. **Who is the present Governor of Reserve Bank of India?**

    A. A. C. Thakur   B. B. C. Joshi   C. Urjit Patel   D. S. C. Khakkar

37. **Which country has recently taken severe crackdown approach against the drug traffickers?**

    A. Indonesia   B. Philippines   C. Lebanon   D. Malaysia

38. **In which year did the occupied Indian territories come under the direct control and administration of the British Government?**

    A. 1757   B. 1857   C. 1858   D. 1880

39. **A deadly combination of cricket and the rebellion against the British Empire is well presented in the film**

    A. Swadesh   B. Kranti   C. Baahubali 2   D. Lagaan

40. **Dumping is an example of**

    A. Exporting goods at prices lower than the home-market prices

    B. Monopoly in international trade

    C. Oligopoly in international trade

    D. Perfect competition in international trade

SECTION 2

VERBAL ABILITY

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

PASSAGE

Throughout history numerous thinkers, prophets and ordinary people defined happiness rather than life itself as the supreme good. In ancient Greece the philosopher Epicurus explained that worshipping gods is a waste of time, that there is no existence after death and that happiness is the sole purpose of life. Most people in ancient times rejected Epicureanism, but today it has become the default view. Skepticism about the afterlife drives humankind to seek not only immortality, but also earthly happiness. For who would like to live for ever in eternal misery?

For Epicurus the pursuit of happiness was a personal quest. Modern thinkers, in contrast, tend to see it as a collective project. Without government planning, economic resources and scientific research, individuals will not get far in their quest for happiness. If your country is torn apart by war, if the economy is in crisis and if health care is non-existent, you are likely to be miserable. At the end of the eighteenth century the British philosopher Jeremy Bentham declared that the supreme good is 'the greatest happiness of the greatest number', and concluded that the sole worthy aim of the state, the market and the scientific community is to increase global happiness. Politicians should make peace, business people should foster prosperity and scholars should study nature, not for the greater glory of king, country or God – but so that you and I could enjoy a happier life.

During the nineteenth and twentieth centuries, although many paid lip service to Bentham's vision, governments, corporations and laboratories focused on more immediate and well-defined aims. Countries measured their success by the size of their territory, the increase in their population and the growth of their GDP – not by the happiness of their citizens. Industrialised nations such as Germany, France and Japan established gigantic systems of education, health and welfare, yet these systems were aimed to strengthen the nation rather than ensure individual well-being.

Schools were founded to produce skilful and obedient citizens who would serve the nation loyally. At eighteen, youth needed to be not only patriotic but also literate, so that they could read the brigadier's order of the day and draw up tomorrow's battle plans. They had to know mathematics in order to calculate the shell's trajectory or crack the enemy's secret code. They needed a reasonable command of electrics, mechanics and medicine, in order to operate wireless sets, drive tanks and take care of wounded comrades. When they left the army they were expected to serve the nation as clerks, teachers and engineers, building a modern economy and paying lots of taxes.

The same went for the health system. At the end of the nineteenth century countries such as France, Germany and Japan began providing free health care for the masses. They financed vaccinations for infants, balanced diets for children and physical education for teenagers. They drained festering swamps, exterminated mosquitoes and built centralised sewage systems. The aim wasn't to make people happy, but to make the nation stronger. The country needed sturdy soldiers and workers, healthy women who would give birth to more soldiers and workers, and bureaucrats who came to the office punctually at 8 a.m. instead of lying sick at home.

Even the welfare system was originally planned in the interest of the nation rather than of needy individuals. When Otto von Bismarck pioneered state pensions and social security in late nineteenth-century Germany, his chief aim was to ensure the loyalty of the citizens rather than to increase their well-being. You fought for your country when you were eighteen, and paid your taxes when you were forty, because you counted on the state to take care of you when you were seventy.

- By Yuval Noah Harari from Homo Deus: A Brief History of Tomorrow

41. How can global happiness be achieved?
A. Erasing national boundaries
B. Improving healthcare
C. Pursuing happiness through collective efforts
D. Minimizing human wants

42. Desire for earthly happiness comes from
A. Impulses of instant gratification
B. Envy
C. Doubts about life after death
D. Living among problems

43. How did humans develop systems to measure progress during 19th and 20th centuries?
A. Focusing on national priorities
B. Following Bentham's vision
C. Prioritizing individual happiness
D. Following Epicurean vision

44. What is the valid assumption in pursuit of happiness?
A. It can only be realized in the longevity of human life
B. It depends on number of shared initiatives
C. Increasing per capita income
D. It is always an illusionary quest

45. Which word in the paragraph has similar meaning to 'path'?
A. Lip-service
B. Skepticism
C. Gigantic
D. Trajectory

46. Patriotism and literacy were directed to make individuals
A. Independent thinkers
B. Follow national priorities unquestioningly
C. Global citizens
D. Happy individuals

47. Why was the healthcare system developed?
A. To make people happy
B. To serve national interests
C. On philanthropic grounds
D. Fearing the epidemic

48. In the passage word 'exterminated' is used. What does it mean?
A. Made quiet
B. Made non-effective
C. Led to more impact
D. Eradicated

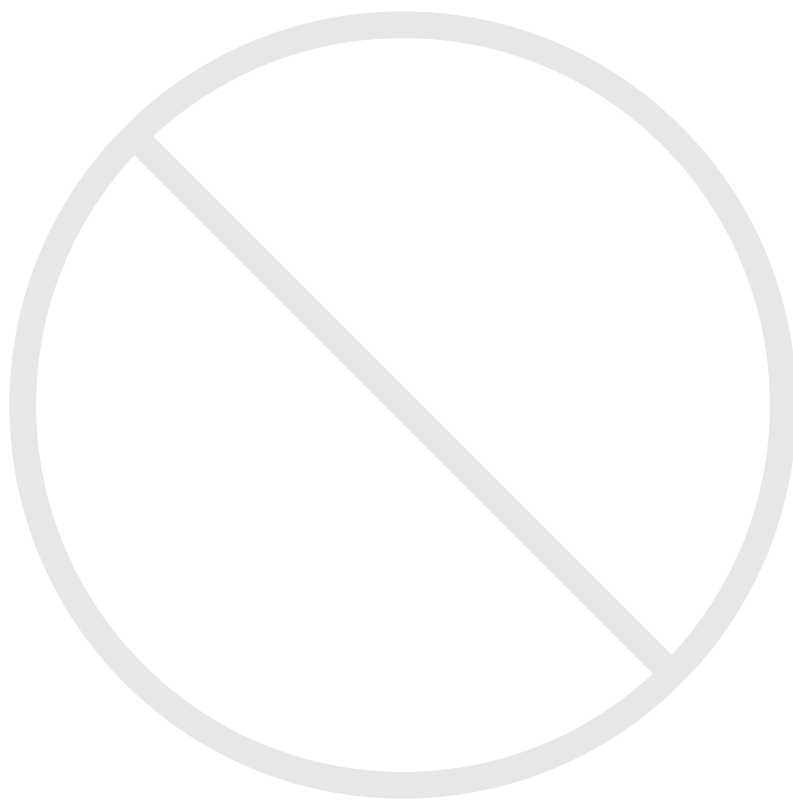**49. What was the inherent rationale in forming welfare system?**
A. Reciprocity
B. Altruism
C. Creating wealth
D. Ignoring citizens

50. Find out from the following a word given in a passage that is opposite in meaning to the word 'sincerity'
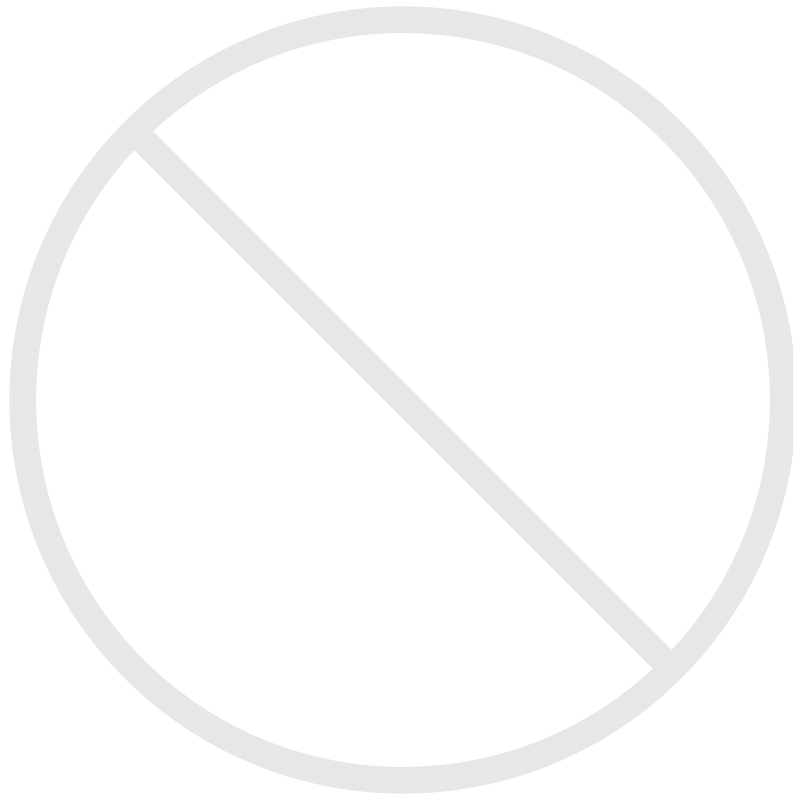A. Eternal
B. Sturdy
C. Lip-service
D. Loyal

Answer following questions as directed.

51. **'Walking' is the best exercise. - In this sentence, 'walking' is**
    A. Gerund   B. Present Participle   C. Helping Verb   D. Concord

52. **Idiom 'up in arms' means**
    A. Joining army   B. Protesting in anger
    C. Possessing weapons   D. Asking for permission

53. **Which figure of speech is used in the line 'For every atom belonging to me as good belongs to you'?**
    A. Pun   B. Personification   C. Tautology   D. Inversion

54. **Choose the correct answer - The Oval Office, ___ (situate) in the White House, is the office of the President of the United States.**
    A. Is situated   B. Situating   C. Situated   D. Which was situated

55. **"That was a near miss." What part of speech is "near"?**
    A. Noun   B. Adjective   C. Verb   D. Adverb

56. **Find out an incorrect part from the following**
    A. An Indian ship   B. laden with goods   C. drowned in the ocean   D. near Sri Lanka

57. **Find out the synonym from the following for the word 'Exasperation'?**
    A. Vexation   B. Oscillation   C. Monstrous   D. Isolation

58. **Colloquial word 'couch potato' means what?**
    A. Mashed potato   B. Lazy person   C. Half-cooked potato   D. Basket of Potato

59. **Find out a correct spelling from the following**
    A. Ommineous   B. Omineous   C. Ominous   D. Omenous

60. **Identify the transitive verb from the following**
    A. Perspiring, we arrived at the railway station just in time.
    B. He kicked football hard.
    C. Ashish went to the theatre last Friday.
    D. None of the above.
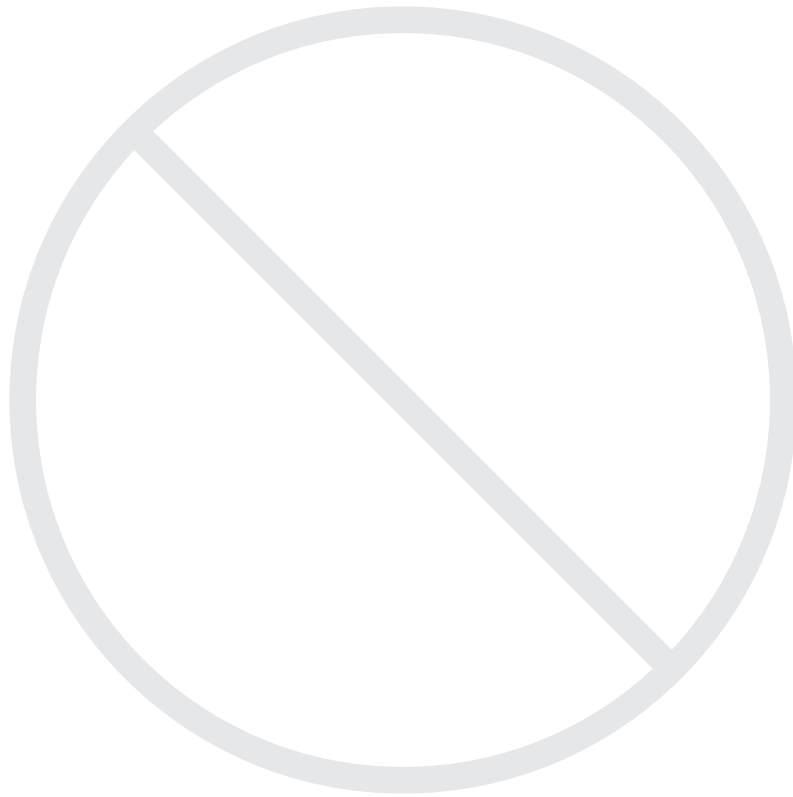
SECTION 3

QUANTITATIVE ABILITY
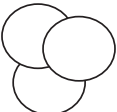
61. **If n is a natural number, then $(6n^2 + 6n)$ is always divisible by:**
A. Both 6 and 12　　　　B. 6 Only　　　　C. 12 only　　　　D. None of these

62. **On dividing a number by 56, we get 29 as remainder. On dividing the same number by 8, what will be the remainder?**
A. 2　　　　B. 3　　　　C. 4　　　　D. 5

63. **A man is 24 years older than his son. In two years, his age will be twice the age of his son. What is the present age of his son?**
A. 23　　　　B. 22　　　　C. 21　　　　D. 20

64. **A large field of 700 hectares is divided into two parts. The difference of the areas of the two parts is one-fifth of the average of the two areas. What is the area of the smaller part in hectares?**
A. 400　　　　B. 365　　　　C. 385　　　　D. 315

65. **In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs?**
A. 6.25　　　　B. 5.5　　　　C. 7.4　　　　D. 5

66. **Find the missing number. 4, 5, 7, 11, 19, (...)**
A. 22　　　　35　　　　27　　　　32

67. **A watch which gains 5 seconds in 3 minutes was set right at 7 a.m. In the afternoon of the same day, when the watch indicated quarter past 4 o'clock, the true time is**
A. 3pm　　　　3:45pm　　　　3:30pm　　　　4pm

68. **8th Dec 2007 was Saturday, what day of the week was it on 8th Dec, 2006?**
A. Sunday　　　　B. Tuesday　　　　C. Friday　　　　D. Thursday

69. **In a shop, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, find out approximately what percentage of the selling price is the profit?**
A. 250%　　　　B. 100%　　　　C. 70%　　　　D. 30%

70. **A boy was asked to multiply a number by 22. He instead multiplied the number by 44 and got the answer 308 more than the correct answer. What was the number to be multiplied?**
A. 16　　　　B. 14　　　　C. 10　　　　D. 12

71. **The difference between simple and compound interests compounded annually on a certain sum of money for 2 years at 4% per annum is Re. 1. The sum is:**
A. Rs 600　　　　B. Rs 645　　　　C. Rs 525　　　　D. Rs 625

72. **What percentage of numbers from 1 to 70 have 1 or 9 in the unit's digit?**
A. 20.67 %　　　　B. 20 %　　　　C. 21 %　　　　D. 22.67 %

73. **John's salary was decreased by 50% and subsequently increased by 50%. How much percent does he loss?**
     A. 35%   B. 25%   C. 32%   D. 28%

74. **Which of the following integers has the most number of divisors?**
     A. 101   B. 99   C. 182   D. 176

75. **John and Dani go for an interview for two vacancies. The probability for the selection of John is 1/3 and whereas the probability for the selection of Dani is 1/5. What is the probability that none of them are selected?**
     A. 3/5   B. 1/5   C. 7/(12)   D. 8/15

76. **Which is the least among the following?**
     A. $1 \div 0.3$ B. 0.3   C. 0.3   D. $(0.3)^2$

77. **A train passes a platform in 36 seconds. The same train passes a man standing on the platform in 20 seconds. If the speed of the train is 54 km/hr, The length of the platform is**
     A. None of these   B. 280 metre   C. 240 metre   D. 200 metre

78. **if $6^m = 46656$, What is the value of 6 m-2**
     A. 36   B. 7776   C. 216   D. 1296

79. **(log3 4) (log4 5) (log5 6) (log6 7) (log7 8) (log8 9) (log9 9) = ?**
     A. 4   B. 0   C. 2   D. 1

80. **Two vessels A and B contain spirit and water in the ratio 5 : 2 and 7 : 6 respectively. Find the ratio in which these mixtures be mixed to obtain a new mixture in vessel C containing spirit and water in the ratio 8 : 5 ?**
     A. 3:4   B. 4:3   C. 9:7   D. 7:9

SECTION 4

LOGICAL REASONING

81. **Introducing a man, a woman said, "He is the only son of my mother's mother." How is the woman related to the man?**
    A. Mother B. Sister C. Aunt D. Niece

82. **A rat runs 20' towards east and turns to right runs 10' and turns to right, runs 9 and again turns to left, runs 5' and then turns to left runs 12' and finally turns to left and runs 6'. Now which direction is the rat facing?**
    A. East B. North C. West D. South

83. **A meaningful word starting with A is made from the first, the second, the fourth, the fifth and the sixth letters of the word 'CONTRACT'. Which of the following is the middle letter of the word?**
    A. C B. O C. R D. T

84. **Five boys took part in race. Ram finished before Mohan but behind Arjun. Rahul finished before Shailesh but behind Mohan. Who won the race?**
    A. Ram B. Arjun C. Mohan D. Rahul

85. **Find out the missing letters that will complete the series. ab __ dab __ da __ cdabc __.**
    A. ccbd B. cabd C. ccdb D. acbd

86. **If 'GODAVARI' is coded as 'KSHEZEVM', how can 'NARMADA' be coded?**
    A. REQEHE B. REVQEHE C. RDVQEHE D. REUPEHE

87. **If LIBERATE is coded as 56423172, how will TRIBAL be coded?**
    A. 736415 B. 673451 C. 476315 D. 743615

88. **Which of the following is the same as Dozen, Score, Decade?**
    A. Number B. Measurement C. Counting D. Century

89. **Find out the odd one from the given options.**
    A. Poster B. Diagram C. Paper D. Chart

90. **Arrange the given words in the alphabetical order and tick the one that comes last.**
    A. Language B. Litter C. Lieutenant D. Luggage

91. **Which of the following represents men, rodents and living beings?**

92. Statements: **Some Newspapers are magazines.**
                                 All magazines are books.

   Conclusion: **I. All books are magazines.**
                                 II. Some books are magazines.
                                 III. Some books are newspaper.
                                 IV. Some newspaper are books.

   A. Only I, II, and III follow.   B. Only II, III and IV follow.
   C. Only III and IV follow.   D. None follow.

93. The age of Shyam is 1/3 that of his mother. He is 2 years older than his sister. If the age of his sister be 8 years, what is the age of his mother?
   A. 25 years   B. 60 years   C. 48 years   D. 30 years

94. Pink : Red : White
   A. Orange : Yellow : Black   B. Green : Blue : Yellow
   C. Yellow : Red : Green   D. Brown : Black : Blue

Read the following and answer the questions. (95 - 96)
There are six flats on first floor in two rows facing North and South allotted to six persons P. Q, R, S, T and U. The position of their flats is as follows:

I.   Q's flat faces the north and is not next to S.
II.   S and U have occupied diagonally opposite flats.
III. R, next to U, occupied a flat facing the South and T gets a flat which faces the North.

95. Whose flat is between Q and S?
   A. P   B. R   C. T   D. U

96. The flats of which pair other than that SU is diagonally opposite to each other?
   A. RT   B. PT   C. QP   D. TU

97. A word given in capital letters is followed by four answer words. Out of these only one cannot be formed by using the letters of the given words.

   INTERNATIONAL
   A. ALONE   B. NOTE   C. LATER   D. RADIO

98. If the day before yesterday was Saturday, what day will fall on the day after tomorrow?
   A. Friday   B. Thursday   C. Wednesday   D. Tuesday

99. **Study the following number sequence and answer the questions given below it: (99 – 100)**

5 1 4 7 3 9 8 5 7 2 6 3 1 5 8 6 3 8 5 2 2 4 3 4 9 6

How many odd numbers are there in the sequence which are immediately preceded and also immediately followed by an even number?

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

100. **How many even numbers are there in the sequence which are immediately preceded by an odd number but immediately followed by an even number?**

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

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