

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

RRB GROUP D

TEST SERIES

DATE- __/__/__

DAY- _____

INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

SG Set 07

QUESTION- 100

MARKS- 100

NEGATIVE MARK- 0.33

DURATION- 90 MIN.

1. Use only ball pens with black or blue ink
2. As soon as the examination starts, you must check this question booklet and if there is any unprinted, mutilated or partially printed page or question in it, then replace it with the correct question booklet through the examiner.
3. There are a total of 100 questions in this question booklet.
4. This is an objective test, in which four options are given for the answer to each question, you have to choose only one option with the correct answer out of these four options.
5. Answers to all questions are to be written on separate answer sheets.

6. Instructions for filling the answer sheet are written on the back side of the answer sheet, read them carefully before filling the answer sheet.
7. Blank pages are available in this question booklet for rough work.
8. Candidates cannot leave the room before the end of the examination.
9. After the examination is over, you can go out only with his permission after submitting the ORIGINAL COPY of the answer sheet to the invigilator.
10. After the completion of the examination, the candidate is allowed to take the question booklet and answer sheet with him/her.
11. 1 marks will be given for each correct answer and 0.33 marks will be deducted for each wrong answer.



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Total: 100 Que.

RRB Group D 2025 - Set 07 English
Language

Time: 90 Min.

Group D

- 1). Where is the region located?
(a) 5' -end (upstream) on the DNA of the sense strand.
(b) 3' -end (upstream) on the DNA of the sense strand.
(c) 5' -end (downstream) on the DNA of the sense strand.
(d) 3' -end (downstream) on the DNA of the sense strand.
- 2). Which of the following bacteria grow in milk and convert it into curd?
(a) Propionibacterium sharmanii
(b) Lactic Acid Bacteria
(c) Saccharomyces cerevisiae (d) Acetobacter aceti
- 3). The Roquefort cheese is ripened by growing specific fungi on them, which is responsible for?
(a) Imparting color to the cheese
(b) Production of holes in the cheese
(c) Giving the cheese a particular flavor
(d) Doubling the amount of cheese
- 4). The function of mRNA is:
(a) brings amino acids and reads the genetic code.
(b) it provides the template and conveys genetic information from the DNA.
(c) structural and catalytic role
(d) regulation of transcription factors
- 5). Sickle cell anemia is caused by substitution of :
(a) Glutamic Acid by Alanine
(b) Aspartic Acid by Alanine
(c) Aspartic Acid by Valine
(d) Glutamic Acid by Valine
- 6). Which of the following is a homozygous recessive genotype?
(a) AA (b) Aa (c) A (d) aa
- 7). The role of helicase enzyme:
(a) Removes positive supercoiling
(b) prevent re-association of the two strands
(c) unwind the double helix
(d) template for DNA strand synthesis
- 8). Chromatin is made up of:
(a) Nucleic acids (b) Proteins
(c) Proteins and Carbohydrates
(d) Nucleic Acids and Proteins
- 9). Which of the following is NOT a way of transmission of HIV-infection?
(a) Infected mother to her child through placenta
(b) Transfusion of contaminated blood and blood products
(c) Shaking hands with an infected person
(d) Sexual contact with infected person
- 10). The two cyclic hemiacetal forms of glucose differing only in the configuration of the hydroxyl group at C-1 are called
(a) Anomers (b) Enantiomers (c) Epimers
(d) Metamers
- 11). Hydrogen peroxide is used as
(a) Oxidising agent only (b) Reducing agent only
(c) Both as oxidising and reducing agent
(d) Drying agent
- 12). Benzenediazonium chloride is reduced to benzene by
(a) Water (b) Hypophosphorous acid
(c) Hypophosphoric acid (d) Phosphine
- 13). When benzene diazonium chloride is treated with cuprous chloride in HCl, chlorobenzene is formed. This reaction is called:
(a) Perkin reaction (b) Hinsberg reaction
(c) Gattermann reaction (d) Sandmeyer reaction
- 14). The correct statement regarding the basicity of arylamines is:

(a) arylamines are generally less basic than alkylamines because the nitrogen lone-pair electrons are delocalized by interaction with the aromatic ring π electron system.

(b) arylamines are generally more basic than alkylamines because the nitrogen lone-pair electrons are not delocalized by interaction with the aromatic ring π electron system.

(c) arylamines are generally more basic than alkylamines because of aryl group

(d) arylamines are generally more basic than alkylamines, because the nitrogen atom in arylamines is sp -hybridized

15). Amongst the following, the strongest base in aqueous medium is

(a) CH_3NH_2 (b) $(\text{CH}_3)_3\text{N}$ (c) $(\text{CH}_3)_2\text{NH}$

(d) $\text{C}_6\text{H}_5\text{NHCH}_3$

16). A strong base abstract an -hydrogen from

(a) Alkane (b) Alkene (c) Amine (d) Ketone

17). Which of the following is not chiral ?

(a) 2-Butanol (b) 2, 3-diBromopentane

(c) 3-Bromopentane (d) 2-Hydroxypropanoic acid

18). Two coherent sources of light can be obtained by

(a) Two different lamps

(b) Two different lamps but of the same power.

(c) Two different lamps of same power and having the same color

(d) None of the above

19). The minimum kinetic energy of photo-electrons thus emitted which reach to collector plate is equal to _____

(a) 12 eV (b) 2 eV (c) 12.2 eV (d) 10.2 eV

20). The mean life time of a radionuclide, if its activity decreases by 4% for every 1h, would be (product is non-radioactive, i.e., stable)

(a) 25h (b) 1.042 h (c) 2h (d) 30h

21). What happens to the electric flux due to a point charge enclosed by a spherical Gaussian surface, when the radius of the Gaussian surface is doubled?

(a) Electric flux gets doubled

(b) Electric flux becomes half

(c) Electric flux remains unaffected

(d) Electric flux becomes one-fourth

22). Efficiency of photo-electron generation is

(a) 0.0198 (b) 0.0278 (c) 0.0369 (d) 0.0458

23). The stopping potential for the photo-electrons ejected due to transition from 2^{nd} orbit to ground state is

(a) 30.5 V (b) 40.5 V (c) 50.5 V (d) 60.5 V

24). The advantage of potentiometer is that

(a) It draws more current from the voltage source being measured

(b) It draws no current from the voltage source being measured

(c) It measures current accurately

(d) It compares two currents accurately

25). In which of the following systems will the radius of the first orbit ($n=1$) be minimum?

(a) Deuterium atom (b) Hydrogen atom

(c) Double ionized lithium (d) Singly ionized helium

26). A is three times as old as B. C was twice-as old as A four years ago. In four years' time, A will be 31. What are the present ages of B and C ?

(a) 9,46 (b) 9,50 (c) 10,46 (d) 10,50

27). A student walked out from the Classroom towards the Library. She went first to the Canteen on the left side, 24 ft away. After a cup of tea, took a right turn and went to the Laboratory 13 ft away. She then went to the Physics Block, 15 ft to the left. She talked to a friend, in the garden 3 ft. on the left and continued walking in the same direction to the Library, 10 ft more. What was the actual distance between the Library and the Classroom?

(a) 42 ft. (b) 66 ft. (c) 39 ft. (d) 34 ft.

28). If 27th December 2009 was a Thursday, then what day of the week was it on 1st March 2010?

(a) Thursday (b) Friday (c) Sunday (d) Monday

29). In the following question, select the related group of letters from the given alternatives:

TZ : GA :: QR : ?

(a) JI (b) TZ (c) RS (d) NQ

30). Ayush was born two years after his father's marriage. His mother is five years younger than his father but 20 years older than Ayush who is 10 years old. At what age did the father get married?

- (a) 23 years (b) 25 years (c) 33 years
(d) 35 years

31). Amit's house is to the east of Ankit's house.
Suman's house is to the south of Amit's house.
Raman's house is to the east of Amit's house. In
which direction, is Raman's house with respect to
Suman's house?

- (a) East (b) South-east (c) North-east (d) South

32). A boy leaves his school and travels 8 km
towards the east. He takes a left turn and travels 6
km in that direction, and then turns towards the
east and travels another 5 km. Finally, he turns
right and travels 10 km. In which direction, is he
now from his school?

- (a) South-East (b) West (c) East (d) North-East

33). A piece of paper is folded and punched as
shown below in the question figure. From the
given answer figures, indicate how it will appear
when opened?



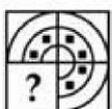
- (a) (b) (c) (d)

34). From the given answer figures, select the one
in which the question figure is hidden/ embedded.



- (a) (b) (c) (d)

35). Which answer figure will complete the pattern in
the question figure?

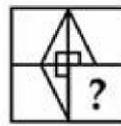


- (a) (b) (c) (d)

36). A series is given with one term missing. Select
the correct alternative from the given ones that will
complete the series.
GD, DI, AP, XY, ?

- (a) UH (b) IU (c) ST (d) UJ

37). figure will complete the pattern in the question
figure?



- (a) (b) (c) (d)

38). A series is given with one term missing. Select
the correct alternative from the given ones that will
complete the series.

AD, CE, EF, GG, ?

- (a) IJ (b) II (c) IH (d) HI

39). A bird shooter was asked how many birds he
had in the bag. He replied that there were all
sparrows but six, all pigeons but six, and all ducks
but six. How many birds he had in the bag in all?

- (a) 9 (b) 18 (c) 27 (d) 36

40). Direction: The following questions consists of a
question followed by three statements I, II and III.
You have to decide whether the data given in the
statements are sufficient for answering the
question. Read all the statements carefully and
seek all the possible combinations which could be
sufficient for answering the question.

Towards which direction is Q standing with respect
to P?

- I. T is standing to the west of P and to the north of
S.
II. R is standing to the east of Q and to the south
of S.

III. U is standing to the south west of P and to the south of Q.

- (a) All I, II and III (b) Only III is sufficient
(c) Both I and II (d) Both I and III

41). Select the related word from the given alternatives.

Clock : Time :: Thermometer : ?

- (a) Heat (b) Radiation (c) Energy
(d) Temperature

42). Select the option that will correctly replace the question mark (?) in the series.

15, 19, 35, 71, ?

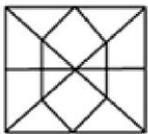
- (a) 125 (b) 141 (c) 145 (d) 135

43). Which number will replace the question mark (?) in the following series?

2, 5, 10, 17, 26, 37, ?, 65, 82, 101

- (a) 48 (b) 42 (c) 50 (d) 49

44). Select the option which is embedded in the figure given below.



- (a) (b) (c)
(d)

45). In a certain code language, CERTAIN is written as DFSUBJO, then in the same code language, SUMMER will be written as

- (a) TUNMFS (b) TVNNFS (c) TVNNFT
(d) RVNNFS

46). Select the missing number from the given options.

18	28	50
17	13	11
26	27	?

- (a) 29 (b) 61 (c) 30 (d) 36

47). Pointing to a man, Pallavi said, "he is married to my cousin's mother Natasha". How is Natasha related to Pallavi?

- (a) Aunty (b) Sister-in-law (c) Mother
(d) Mother-in-law

48). 'A+ B' means that A is the father of B, 'A-B' means that A is the wife of B, 'A B' means that A is the brother of B, 'A B' means that A is the daughter of B. If it is given P R + Q, which of the following is true?

- (a) P is the father of Q.
(b) P is the grandfather of Q.
(c) P is the uncle of Q.
(d) P is the brother-in-law of Q.

49). Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

16 : 128 :: 18 : 162 :: 22 : ?

- (a) 246 (b) 242 (c) 484 (d) 88

50). Select the Venn diagram that best represents the relationship between the following classes.

Fiber, Cotton, Jute

- (a) (b) (c)
(d)

51). Select the option that will fill in the blank and complete the given series.

6, 10, 19, 35, 60, _____

- (a) 98 (b) 95 (c) 93 (d) 96

52). In a certain language, if ABIDE is written as 14811625, then how will CAGED be written as in that language?

- (a) 91492516 (b) 91416514 (c) 61492516
(d) 81493514

53). If:

A3B means A is daughter of B

A5B means A is father of B

A7B means A is mother of B

A9B means A is wife of B

If L3H7I5J9K, then How K is related to H?

- (a) Grand Son-in-law (b) Uncle (c) Son-in-law
(d) Son

54). Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow from the statements.

Statements:

- 1) All parakeets are cuckoos.
- 2) All cuckoos are rabbits.
- 3) All rabbits are snakes.

Conclusion:

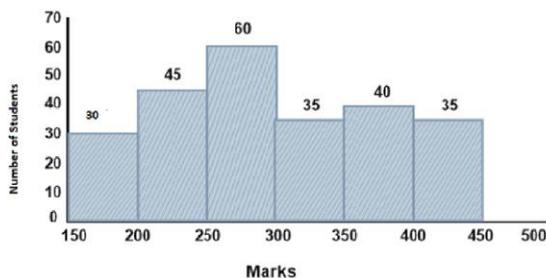
- I. All parakeets are snakes.
- II. All snakes are cuckoos.
- III. All rabbits are parakeets.
- IV. All cuckoos are snakes.

- (a) Only conclusions I and IV follow.
(b) All the conclusions follow.
(c) Only conclusions I and II follow.
(d) Only conclusions II and III follow.

55). Four letter-cluster have been given, out of which, three are alike in some manner and one is different. Select the odd letter cluster.

- (a) BJT (b) GCV (c) DDP (d) FBL

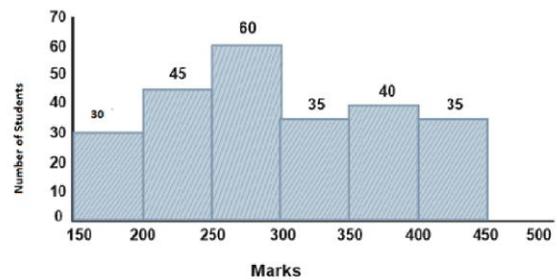
56). **Direction:** Study the given histogram that shows the marks obtained by students in an examination and answer the question that follows.



The number of students who obtained less than 250 marks is what per cent more than the number of students who obtained 400 or more marks? (Correct to one decimal place)

- (a) 150% (b) 175.8% (c) 114.3% (d) 100%

57). **Direction:** Study the given histogram that shows the marks obtained by students in an examination and answer the question that follows.



If the total marks obtained by students be represented as a pie chart, then the central angle of the sector representing marks 200 or more but less than 300, is: (correct to the nearest degree)

- (a) 128° (b) 154° (c) 68° (d) 88°

58). The internal length, breadth and height of a cuboidal room are 12 m, 8 m and 10 m, respectively. The total cost (in ₹) of whitewashing only all four walls of the room at the cost of Rs.25 per m², is:

- (a) 12,600 (b) 10,000 (c) 11,400 (d) 18,000

59). If the numerator of a fraction is increased by 60% and the denominator is increased by 40%, then the resultant fraction is 16/63. The original fraction is:

- (a) $\frac{5}{9}$ (b) $\frac{2}{9}$ (c) $\frac{2}{11}$ (d) $\frac{4}{9}$

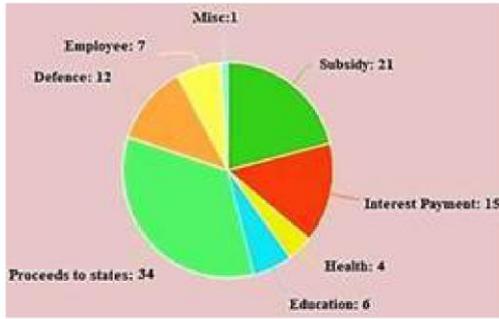
60). Five bells ring together at the intervals of 3, 5, 8, 9 and 10 seconds. All the bells ring simultaneously at the same time. They will again ring simultaneously after:

- (a) 6 minutes (b) 8 minutes (c) 9 minutes
(d) 4 minutes

61). The average age of 40 students of a class is 16 years. After admission of 10 new students to the class, the average becomes 15 years. If the average age of 5 of the new students is 11 years, then the average age (in years) of the remaining 5 new students is:

- (a) 10 (b) 15 (c) 16 (d) 11

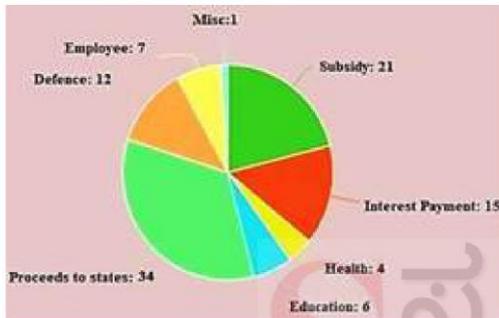
62). **Direction:** The following pie chart shows percentage expenditure of a country on different heads. The total expenditure is Rs.1,680 (in billions). Study the chart and answer the question.



The central angle of the sector representing expenditure on Interest payment is:

- (a) 90° (b) 72° (c) 54° (d) 108°

63. **Direction:** The following pie chart shows percentage expenditure of a country on different heads. The total expenditure is Rs.1,680 (in billions). Study the chart and answer the question.



The expenditure on Education is what percentage less than the expenditure on Defence?

- (a) 150% (b) 50% (c) 100% (d) 125%

64. A's salary is 35% more than B's salary. How much per cent is B's salary less than that of A's? (correct to the nearest integer)

- (a) 17.5% (b) 20% (c) 35% (d) 26%

65. A sum of Rs.36,000 is divided into two parts, A and B, such that the simple interest at the rate of 15% p.on A and B after two years and four years, respectively, is equal. The total interest (in Rs.) received from A is:

- (a) 1,800 (b) 3,600 (c) 7,200 (d) 5,400

66. P and Q together can do a work in 12 days. P alone can do the same work in 36 days. In how many days can Q alone complete two-third part of the same work?

- (a) 12 (b) 15 (c) 18 (d) 21

67. In an entrance examination at different centres, a total of 25, 30, 40, 45, 60 and 100 students appear. The pass percentages of the different centres are 20%, 30%, 35%, 40%, 50% and 75%, respectively. The pass percentage of the entrance examination is: (correct to the nearest integer)

- (a) 59% (b) 43% (c) 53% (d) 50%

68. The speed of a boat in still water is 15 km/h, and the speed of the current is 5 km/h. In how much time (in hours) will the boat travel a distance of 60 km upstream and the same distance downstream?

- (a) 20 (b) 12 (c) 9 (d) 10

69. If the volume of a sphere is 4851 cm^3 , then its surface area (in cm^2) is: (Take $\pi=22/7$)

- (a) 1427 (b) 1386 (c) 1399 (d) 1268

70. If $a^2 + b^2 = 82$ and $ab = 9$, then a possible value of $a^3 + b^3$ is:

- (a) 720 (b) 750 (c) 830 (d) 730

71. A can complete a certain work in 35 days and B can complete the same work in 15 days. They worked together for 7 days, then B left the work. In how many days will A alone complete 60% of the remaining work?

- (a) 10 (b) 15 (c) 8 (d) 7

72. In a circle with centre O, AD is diameter and AC is a chord. Point B is on AC such that $OB = 7 \text{ cm}$ and $\angle OBA = 60^\circ$. If $\angle DOC = 60^\circ$, then what is the length of BC?

- (a) $3\sqrt{7} \text{ cm}$ (b) 3.5 cm (c) 7 cm (d) $5\sqrt{7} \text{ cm}$

73. If $x + y + z = 19$, $xyz = 216$ and $xy + yz + zx = 114$, then the value of $\sqrt{x^3 + y^3 + z^3 + xyz}$ is:

- (a) 32 (b) 30 (c) 28 (d) 35

74. Ramesh spends 40% of his monthly salary on food, 18% on house rent, 12% on entertainment, and 5% on conveyance. But due to a family function, he has to borrow Rs.16,000 from a money lender to meet the expenses of Rs.20,000. His monthly salary is

- (a) Rs.16,500 (b) Rs.15,000 (c) Rs.16,000 (d) Rs.18,000

75. A, B, C subscribe a sum of Rs.75,500 for a business. A subscribes Rs.3,500 more than B, and B subscribes Rs.4,500 more than C. Out of a total profit of Rs.45,300, how much (in Rs.) does A receive?

- (a) 17,400 (b) 14,700 (c) 12,600 (d) 15,000

76. The ratio of the total surface area and volume of a sphere is 2 : 7. Its radius is:

- (a) 7.5 cm (b) 10.5 cm (c) 10 cm (d) 7 cm

- 77). The value of
$$\frac{427 \times 427 \times 427 + 325 \times 325 \times 325}{42.7 \times 42.7 + 32.5 \times 32.5 - 42.7 \times 32.5}$$
 is:
(a) 75.2 (b) 752 (c) 75200 (d) 7520

- 78). In $\triangle ABC$, $\angle A = 54^\circ$. If I is the in-centre of the triangle, then the measure of $\angle BIC$ is:
(a) 68° (b) 54° (c) 148° (d) 117°

- 79). Let A and B be two towers with the same base. From the midpoint of the line joining their feet, the angles of elevation of the tops of A and B are 30° and 45° , respectively. The ratio of the heights of A and B is:
(a) 1 : 3 (b) $1 : \sqrt{3}$ (c) $\sqrt{3} : 1$ (d) 3 : 1

- 80). Let A and B be two cylinders such that the capacity of A is the same as the capacity of B. The ratio of the diameters of A and B is 1 : 4. What is the ratio of the heights of A and B?
(a) 16 : 1 (b) 16 : 3 (c) 3 : 16 (d) 1 : 16

- 81). Taxation and Government spending are tools of which of the following policy mentioned below?
(a) Contractionary Policy (b) Expansionary Policy
(c) Monetary Policy (d) Fiscal Policy

- 82). Tomb of Humayun was constructed between-
(a) 1452 and 1471 (b) 1562 and 1571
(c) 1662 and 1671 (d) 1771 and 1771

- 83). Kamakhya temple, a Shakti Peetha, was built in the-
(a) Thirteenth century (b) Fourteenth century
(c) Fifteenth century (d) Seventeenth century

- 84). Who among the following had introduced the Pradhan Mantri Gram Sadak Yojana?
(a) Narendra Modi (b) Atal Bihari Vajpayee
(c) Rajeev Gandhi (d) Indira Gandhi

- 85). Ek Bharat Shreshtha Bharat scheme was launched on the birth anniversary of which among the following personalities?
(a) Sushma Swaraj (b) APJ Abdul Kalam
(c) Atal Bihari Vajpayee (d) Sardar Vallabhbhai Patel

- 86). The call "India for the Indians" was given by _____ in the year _____.

- (a) Swami Vivekanand, 1776
(b) Raja Ram Mohan Rai, 1976
(c) Bal Gangadhar Tilak, 1976
(d) Dayananda Saraswati, 1876

- 87). Indian National Congress got split up into two groups the Extremists and the Moderates. The split was known as _____.
(a) Madras Split (b) Bombay Split (c) Surat Split
(d) Calcutta Split

- 88). ISRO has developed FEAST (Finite Element Analysis of Structures) software in which institute?
(a) IIT Kanpur (b) IIT Bombay (c) IIT Hyderabad
(d) IIT Roorkee

- 89). Recently, which ministry has launched a campaign called "Shatavari – For Better Health"?
(a) Ministry of Women and Child Development
(b) Ministry of AYUSH (c) Ministry of Health
(d) Ministry of Home Affairs

- 90). The Islamic Calender is called _____ and was created in _____.
(a) Hijri and 622 CE (b) Vikram Samvat and 610 CE
(c) Shakasamvat and 520 CE
(d) Julian calender and 620 CE

- 91). The D-Day invasion of June 6, 1944, took place in-
(a) France (b) Canada (c) Germany
(d) United Kingdom

- 92). Where and when did the first rebellion of the Indian soldiers in the British army happen?
(a) Patna in 1853 (b) Barrackpore in 1857
(c) Meerut in 1857 (d) Vellore in 1854

- 93). Which of the following statements is false about Mountbatten Plan?
(a) It was adopted on 3 June 1947.
(b) The country would be divided into two Dominions i.e., India and Pakistan.
(c) The two Dominions would decide about the boundary disputes on their own.
(d) It was for the two Dominions to decide what relations they would have with the British Commonwealth and with each other.

94). ISO is an international organisation. What does ISO stands for?

- (a) International Science Organisation
(b) International Organisation for Standardization
(c) International Organisation for Sustainability
(d) International Space Organisation
-

95). The Ganga is the longest and largest flowing river in India. The length of the mighty river is approximately-

- (a) 1500 km (b) 300 km (c) 4000 km (d) 2500 km
-

96). The Damodar River which is also known as 'Sorrow of Bengal' flows through how many states?

- (a) One (b) Two (c) Three (d) Four
-

97). Who was regarded as the only President to serve two full terms and he stayed in office for the longest term of around 12 years?

- (a) ZakirHussain (b) LalBahadurShastri
(c) Dr. Rajendra Prasad (d) Abdul Kalam
-

98). Who was the first woman to win the Nobel Prize in Chemistry?

- (a) Bertha von Suttner (b) Marie Curie
(c) Selma Lagerlöf (d) Grazia Deledda
-

99). According to census 2011, which district of India has the Highest Sex Ratio in India per 1000 males?

- (a) Mahe, Puducherry (b) Almora, Uttarakhand
(c) Kannur, Kerala (d) Ratnagiri, Maharashtra
-

100). Nagaland and Manipur share its boundaries with which of the following neighbouring countries?

- (a) Bhutan (b) China (c) Bangladesh
(d) Myanmar
-