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# **APSC Inspector Of Statistics**

**Previous Year Paper  
(GK) Paper-II  
30 Sept, 2023**



Name of Post:	Inspector of Statistics in the Directorate of Economics & Statistics under Transformation and Development Department, Govt. of Assam
Advt. No.	04/2023 dated 23.03.2023
Date of Exam.	29 <sup>th</sup> & 30 <sup>th</sup> September, 2023

**INSPS/TDD/II/23**

**ASKED TO DO SO**

**Series**

**D**

**TEST BOOKLET**  
**GENERAL KNOWLEDGE**  
00708  
Paper—II

**Time Allowed : 2 Hours**

**Full Marks : 100**

**Read the following instructions carefully before you begin to answer the questions :**

1. The name of the Subject, Roll Number as mentioned in the Admission Certificate, Test Booklet No. and Series are to be written legibly and correctly in the space provided on the Answer-Sheet with Black/Blue ballpoint pen.
2. **Answer-Sheet without marking Series as mentioned above in the space provided for in the Answer-Sheet shall not be evaluated.**
3. All questions carry equal marks.

**The Answer-Sheet should be submitted to the Invigilator.**

**Directions for giving the answers :** Directions for answering questions have already been issued to the respective candidates in the 'Instructions for marking in the OMR Answer-Sheet' along with the Admit Card and Specimen Copy of the OMR Answer-Sheet.

**Example :**

Suppose the following question is asked :

The capital of Bangladesh is

- (A) Chennai
- (B) London
- (C) Dhaka
- (D) Dhubri

You will have four alternatives in the Answer-Sheet for your response corresponding to each question of the Test Booklet as below :

(A) (B) (C) (D)

In the above illustration, if your chosen response is alternative (C), i.e., Dhaka, then the same should be marked on the Answer-Sheet by blackening the relevant circle with a Black/Blue ballpoint pen only as below :

(A) (B) (C) (D)

**The example shown above is the only correct method of answering.**

4. Use of eraser, blade, chemical whitener fluid to rectify any response is prohibited.
5. Please ensure that the Test Booklet has the required number of pages (20) and 100 questions immediately after opening the Booklet. In case of any discrepancy, please report the same to the Invigilator.
6. No candidate shall be admitted to the Examination Hall/Room 20 minutes after the commencement of the examination.
7. **No candidate shall leave the Examination Hall/Room** without prior permission of the Supervisor/Invigilator. No candidate shall be permitted to hand over his/her Answer-Sheet and leave the Examination Hall/Room before expiry of the full time allotted for each paper.
8. No Mobile Phone, Electronic Communication Device, etc., are allowed to be carried inside the Examination Hall/Room by the candidates. Any Mobile Phone, Electronic Communication Device, etc., found in possession of the candidate inside the Examination Hall/Room, even if on off mode, shall be liable for confiscation.
9. No candidate shall have in his/her possession inside the Examination Hall/Room any book, notebook or loose paper, except his/her Admission Certificate and other connected papers permitted by the Commission.
10. Complete silence must be observed in the Examination Hall/Room. No candidate shall copy from the paper of any other candidate, or permit his/her own paper to be copied, or give, or attempt to give, or obtain, or attempt to obtain irregular assistance of any kind.
11. This Test Booklet can be carried with you after answering the questions in the prescribed Answer-Sheet.
12. Noncompliance with any of the above instructions will render a candidate liable to penalty as may be deemed fit.
13. No rough work is to be done on the OMR Answer-Sheet. You can do the rough work on the space provided in the Test Booklet.

**N.B. : There will be negative marking @ 0.25 per 1 (one) mark against each wrong answer.**

**/126-D**

**[ No. of Questions : 100 ]**

**SEAL**



1. The correct chronological order of the formation of Haryana, Sikkim, Arunachal Pradesh, Nagaland as full States of Indian Union is
- (A) Haryana, Sikkim, Arunachal Pradesh, Nagaland
  - (B) Nagaland, Arunachal Pradesh, Haryana, Sikkim
  - (C) Nagaland, Haryana, Arunachal Pradesh, Sikkim
  - (D) Nagaland, Haryana, Sikkim, Arunachal Pradesh
2. Most of the Internet banking sites provide which of the following features to reduce the risk of keystroke logging for the password entry?
- (A) Virtual keyboard
  - (B) Finger touching
  - (C) Touch screen
  - (D) Shape writer
3. The permanent building of which pre-historic temple of Assam was inaugurated by the Assam Chief Minister on June 5, 2023?
- (A) The Dhalpur Shiva Mandir of Darrang
  - (B) The Baradi Shiva Temple of Barpeta
  - (C) The Bagheshwari Hill Temple of Bongaigaon
  - (D) The Tukreswari Temple of Goalpara
4. Arrange the following anti-British uprising in chronological order :
- (i) Patharughat Uprising
  - (ii) Phulaguri Uprising
  - (iii) Rangiya Uprising
- Select the correct answer using the codes given below.
- (A) (i), (ii), (iii)
  - (B) (ii), (i), (iii)
  - (C) (i), (iii), (ii)
  - (D) (iii), (ii), (i)
5. During ancient Assam, which river served as the western boundary of Assam?
- (A) Sankosh
  - (B) Rupahi
  - (C) Karatoya or Sadanira
  - (D) Bharali
6. The Assam Government and the IIT Guwahati have signed a MoU to establish a healthcare innovation institute along with a 350-bed hospital in the existing IITG campus to be named
- (A) Assam Healthcare Innovation Institute and Multispeciality Hospital
  - (B) Assam Advanced Healthcare Research Institute and Hospital
  - (C) Assam Advanced Healthcare Innovation Institute
  - (D) Assam Healthcare and Innovative Research Institute

7. The highlight of the vision statement of the Social Welfare Department, Assam is
- to create an environment for development, care and protection for children
  - empowerment and development of women
  - welfare for old and infirm and to facilitate persons with disabilities to live with dignity
  - social justice for SC, ST and Other Backward Classes
- Select the correct answer using the codes given below.
- All of the above are correct
  - Only (i), (ii) and (iii) are correct
  - Only (ii), (iii) and (iv) are correct
  - Only (iii), (iv) and (i) are correct
8. The Department of Environment and Forests, Assam and the USAID recently launched the 'Trees Outside Forests in India (TOFI)' programme in Assam to
- generate employment with aggressive social forestry programmes
  - improve rural livelihood pattern with emphasis on medicinal plants
  - rapidly expand tree coverage outside of traditional forests in the State
  - All of the above
9. The Assam Project on Forest and Biodiversity Conservation (APFBC) Society was created by the State Government of Assam with which project vision?
- 'Engaging the Forest Department to accelerate conservation initiatives for preserving healthier ecosystems and traditional biodiversity'
  - 'Contribute through the community participation towards the conservation of nature for healthier ecosystems and multiplied green cover'
  - 'Emphasize on the conservation of nature for healthier ecosystem and safe nature'
  - 'Contribute through the Forest Department towards the conservation of nature for healthier ecosystems and happier communities'
10. Which of the following statements are correct with regard to 'Orunodoi' Scheme of the Government of Assam?
- It envisages poverty alleviation.
  - It envisages socio-economic inclusion of financially vulnerable families.
  - It aims to generate employment through intermittent financial assistance.
  - It provides minimum cash flow to underprivileged families.
- Select the correct statements using the codes given below.
- Only (i), (ii) and (iii)
  - Only (ii), (iii) and (iv)
  - Only (i), (iii) and (iv)
  - Only (i), (ii) and (iv)

- 11.** Find the Dadasaheb Phalke awardees from the following :
- Dr. Bhupen Hazarika
  - Asha Parekh
  - Rajnikant
  - Amitabh Bachchan
- Select the correct answer using the codes given below.
- Only (i) and (iv)
  - Only (i), (ii) and (iv)
  - Only (i) and (ii)
  - (i), (ii), (iii) and (iv)
- 12.** Who was the first Indian woman to get an Olympic medal?
- P. T. Usha
  - Arati Saha
  - Karnam Malleswari
  - Sania Mirza
- 13.** What is SRESTHA-G program? Which State implements it?
- Transformed achievement in Education sector. Name of the State : Andhra Pradesh
  - Transformed Health Achievement which is focused specially on adolescent girls and disease surveillance. Name of the State : Gujarat
  - It is a convergence portal. Name of the State : Gujarat
  - It is Employment Generation Program which is focused specially on adolescent girls. Name of the State : Andhra Pradesh
- 14.** Which type of cancer is caused by human papillomavirus (HPV)?
- Cervical cancer
  - Breast cancer
  - Oral cancer
  - Prostate cancer
- 15.** Dr. Bhabendra Nath Saikia's movies have been rated highly by the critics across the country besides winning awards. Dr. Saikia had made his debut as a director in *Sandhyaraag* and directed seven Assamese movies. Here are four award winning movies. Name the second movie in chronological sequence of his direction.
- Kolahal*
  - Itihas*
  - Anirban*
  - Agnisnan*
- 16.** Two teams comprising 11 players each play the game in an open field that is approximately 125 metre in length and 80 metre in breadth, with a central point in the right middle of the arena. Two lines called 'Kai' are drawn at a distance of 12 ft on each side of the point at the centre. Four flags are planted in the four corners, known as 'Chukor Nishan'. Identify this traditional game.
- Tarual Khel
  - Kaar Khel
  - Rosi Tona Khel
  - Dhopkhel

17. In a recently signed agreement, Australia and India are about to set up a 'Green Hydrogen Task Force' which
- (i) will comprise Australian and Indian experts in renewable hydrogen sector
  - (ii) will report to the UN for enhancing global collaboration on hydrogen fuel
  - (iii) will develop an action plan to phase out fossil fuel by hydrogen fuel within ten years
  - (iv) will explore all possible joint ventures to commercialize hydrogen fuel globally

Select the correct answer using the codes given below.

- (A) Only (i) is correct
- (B) Only (i) and (ii) are correct
- (C) Only (i), (ii) and (iii) are correct
- (D) Only (iv) is correct

18. In the following question, two statements numbered Statement-I and Statement-II are given. There may be cause and effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes without having any relationship. Read both the statements :

Statement-I :

The Reserve Bank of India has recently put restrictions on a few small banks in the country.

Statement-II :

The small banks in the private and cooperative sectors in India are not in a position to withstand the competitions of the bigger in the public sector.

Conclude the correct answer :

- (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 Statement-I and Statement-II are independent causes
- (D) Both the Statement-I and Statement-II are effects of independent causes

19. If AIRLINE is written as ENILRIA14, then RAILWAY will be written as

- (A) YAWLIAR14
- (B) YAWLIAR15
- (C) YAWILAR7
- (D) YAWILAR8

20. An informal gathering occurs when a group of people gets together in a casual and relaxed manner. Which situation below is the best example of an informal gathering?

- (A) A debating club meets on the first Sunday morning of every month
- (B) After finding out about his salary raise, Jay and a few colleagues go out for a quick dinner after work
- (C) Meena sends out 10 invitations for a bachelorette party she is giving for her elder sister
- (D) Whenever he eats at a Chinese restaurant, Roop always seems to run into Dibya

21. The 'A' State Government has chalked out a plan for the underdeveloped 'B' district where 66% of the funds will be placed in the hands of a committee of local representatives.

Courses of action to follow :

- I. The 'A' State Government should decide guidelines and norms for the functioning of the committee.
- II. Other State Governments may follow similar plan if directed by the Central Government.

Choose the correct answer :

- (A) Only I follows
- (B) Only II follows
- (C) Either I or II follows
- (D) Neither I nor II follows

**22.** Ten coaches of a passenger train had got derailed and blocked the railway track from both ends.

Courses of action :

- I. The railway authorities should immediately send men and equipment and clear the spot.
- II. All the trains running in both directions should be diverted immediately via other routes.

Choose the correct answer :

- (A) Only I follows
- (B) Only II follows
- (C) Either I or II follows
- (D) Both I and II follow

**23.** Statement :

Anger is energy in a more proactive way and how to channelize it is in itself a skill.

Assumptions :

- I. Anger need to be channelized.
- II. Only skillful people can channelize anger to energy.

Choose the correct answer :

- (A) Only assumption I is implicit
- (B) Only assumption II is implicit
- (C) Either I or II is implicit
- (D) Neither I nor II is implicit

**24.** Statement :

Medicine 'P' is a drug which is causing ripples in the medical field.

Assumptions :

- I. No other drug is causing ripples in the medical field.
- II. Medicine 'P' is a great drug.

Choose the correct answer :

- (A) Only assumption I is implicit
- (B) Only assumption II is implicit
- (C) Either I or II is implicit
- (D) Neither I nor II is implicit

**25.** Statement :

The old order changed yielding place to new.

Conclusions :

- I. Change is the law of nature.
- II. Discard old ideas because they are outdated.

Choose the correct answer :

- (A) Neither I nor II follows
- (B) Both I and II follow
- (C) Only conclusion I follows
- (D) Only conclusion II follows

**26.** Statement :

Government has spoiled many top-ranking financial institutions by appointing bureaucrats as directors of these institutions.

Conclusions :

- I. Government should appoint directors of the financial institutes taking into consideration the expertise of the person in the area of finance.
- II. The director of the financial institute should have expertise commensurate with the financial work carried out by the institute.

Choose the correct answer :

- (A) Neither I nor II follows
- (B) Both I and II follow
- (C) Only conclusion I follows
- (D) Only conclusion II follows

**27. Statements :**

- I. The farmers have decided against selling their Kharif crops to the government agencies.
- II. The government has reduced the procurement price of Kharif crops starting from the last month to the next six months.

Choose the correct answer :

- (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 Statement I and Statement II are independent causes
- (D) Both the Statement I and Statement II are effects of independent causes

**28.** If 'krekinblaf' means 'workforce'; 'dritakrekin' means 'groundwork'; 'krekinalti' means 'workplace', which word could mean 'someplace'?

- (A) moropalti
- (B) krekindrita
- (C) altiblaf
- (D) dritaalti

**29.** Which word **does not** match with the others?

- (A) Rudder
- (B) Wing
- (C) Fin
- (D) Beak

**30.** Should all the drugs patented and manufactured in western countries be first tried out on sample basis before giving licence for sale to general public in India?

Arguments :

- I. Yes. Many such drugs require different doses and duration for Indian population and hence it is necessary.
- II. No. This is just not feasible and hence cannot be implemented.

Choose the correct answer :

- (A) Only argument I is strong
- (B) Only argument II is strong
- (C) Either I or II is strong
- (D) Neither I nor II is strong

**31.** Today it is Thursday. After 132 days, it will be

- (A) Monday
- (B) Sunday
- (C) Wednesday
- (D) Thursday

**32.** The number comes after the series

8, 28, 116, 584, ...

- is
- (A) 3504
  - (B) 3507
  - (C) 3508
  - (D) 3509

**33.** What is the next term of the series 6, 12, 30, 56, ...?

- (A) 130
- (B) 131
- (C) 132
- (D) 140

34. If  $*$  is an operation such that  $3 * 4 = 25$ ,  $5 * 6 = 61$ ,  $4 * 5 = 41$  etc., then  $2 * 7$  is

- (A) 50      (B) 52  
(C) 53      (D) 55

35. What would be the twelfth term of the series  $-3, -2, 1, 6, 13, 22, \dots$ ?

- (A) 66      (B) 48  
(C) 118      (D) 84

36. Which number is wrong in the series  $2, 6, 15, 31, 56, 93$ ?

- (A) 2      (B) 6  
(C) 56      (D) 93

37. If a pair of linear equations is consistent, then the lines are

- (A) parallel  
(B) always coincident  
(C) always intersecting  
(D) intersecting or coincident

38. Corresponding sides of two similar triangles are in the ratio of  $2:3$ . If the area of the small triangle is  $48$  sq. cm, then the area of the large triangle is

- (A) 72 sq. cm  
(B) 106 sq. cm  
(C) 107 sq. cm  
(D) 108 sq. cm

39. The diameter  $D$  of a circle with the equivalent area of 8 circles of diameter  $d$  each will be

- (A)  $4\sqrt{2}d$   
(B)  $2\sqrt{2}d$   
(C)  $4d$   
(D)  $2d^2$

40. A distance of  $S$  is travelled by a vehicle in three segments  $s_1, s_2$  and  $s_3$  with three different speeds of  $v_1, v_2$  and  $v_3$ . What is the average speed  $V$  for the whole journey?

- (A)  $\frac{Sv_1v_2v_3}{s_1v_2v_3 + s_2v_1v_3 + s_3v_1v_2}$   
(B)  $\frac{s_1 + s_2 + s_3}{s_1v_2v_3 + s_2v_1v_3 + s_3v_1v_2}$   
(C)  $\frac{v_1 + v_2 + v_3}{3}$   
(D)  $\frac{3S}{s_1v_1 + s_2v_2 + s_3v_3}$

41. What is the quadratic polynomial whose sum and the product of the zeroes are  $\sqrt{2}, \frac{1}{3}$  respectively?

- (A)  $3x^2 - 3\sqrt{2}x + 1$   
(B)  $3x^2 + 3\sqrt{2}x + 1$   
(C)  $3x^2 + 3\sqrt{2}x - 1$   
(D) None of the above

- 42.** The area of a circle is directly proportional to the square of its radius. The proportionality constant is termed as  $\pi$ . Which of the following is correct?
- (A)  $\pi$  and  $\frac{22}{7}$  are same  
 (B)  $\pi$  is terminating and repeating  
 (C)  $\pi$  is terminating and non-repeating  
 (D) None of the above
- 43.** The coefficient of the middle term in the expansion of  $(2+3x)^4$  is
- (A) 120 (B) 720  
 (C) 216 (D) 8!
- 44.** For a certain combination of  $n$  and  $r$ , the value of  ${}^nC_r$  is half of the value of  ${}^nP_r$ . What is the probable value of  $r$ ?
- (A) 1  
 (B) 2  
 (C) 4  
 (D) Cannot be found with the given information
- 45.** A sum of ₹ 3,000 yields an interest of ₹ 1,080 at 12% per annum simple interest in how many years?
- (A) 4 years  
 (B) 3 years  
 (C) 5 years  
 (D)  $2\frac{1}{2}$  years
- 46.** The value of  $(\sin 45^\circ + \cos 45^\circ)^2$  is
- (A)  $\frac{1}{\sqrt{2}}$  (B) 1  
 (C)  $3\sqrt{2}$  (D) 2
- 47.** The points  $(-1, -2)$ ,  $(1, 0)$ ,  $(-1, 2)$ ,  $(-3, 0)$  form a quadrilateral of type
- (A) rhombus (B) rectangle  
 (C) trapezium (D) square
- 48.** Which of the following is *not* irrational?
- (A)  $3 + \sqrt{7}$   
 (B)  $3 - \sqrt{7}$   
 (C)  $(3 + \sqrt{7})(3 - \sqrt{7})$   
 (D)  $3\sqrt{7}$
- 49.** The sum of two numbers and the difference of their squares is 27 each. The numbers are
- (A) 10 and 17  
 (B) 13 and 14  
 (C) 12 and 15  
 (D) 11 and 16
- 50.** Between 1 and 2, there are infinitely many
- (A) natural numbers  
 (B) rational numbers whose numerator is less than the denominator  
 (C) irrational numbers  
 (D) None of the above

51. If the length of the shadow of a tree is decreasing, then the angle of elevation

(A) is increasing  
(B) remains the same  
(C) is decreasing  
(D) can't be ascertained

52. The value of  $\sqrt{6 + \sqrt{6 + \sqrt{6 + \dots}}}$  is

(A) 4      (B) 3  
(C) 3.5      (D) -3

53. A train travels 360 km at a uniform speed. If the speed had been 5 km/hr more, it would have taken 1 hour less for the same journey. Find the speed of the train.

(A) 60 km/hr  
(B) 30 km/hr  
(C) 50 km/hr  
(D) 40 km/hr

54. The zeroes of the polynomial  $x^2 - 2x - 8$  are

(A) (2, -4)      (B) (4, -2)  
(C) (-2, -2)      (D) (-4, -4)

55. The altitude of a right-angled triangle is 7 cm less than its base. If the hypotenuse is 13 cm, the other two sides of the triangle are equal to

(A) base = 13 cm and altitude = 6 cm  
(B) base = 12 cm and altitude = 5 cm  
(C) base = 14 cm and altitude = 7 cm  
(D) None of the above

56. If the 17th term of an AP exceeds its 10th term by 7, then the common difference is

(A) 1      (B) 2  
(C) 3      (D) 4

57. The mode of the given data

4, 6, 5, 9, 3, 2, 7, 7, 6, 5, 4, 9,  
10, 10, 3, 4, 7, 6, 9, 9

is

(A) 7      (B) 9  
(C) 10      (D) 6

58. The average of the marks obtained in an examination by 8 students was 51 and 9 other students was 68. The average marks of all 17 students was

(A) 59      (B) 59.5  
(C) 60      (D) 60.5

59. If  $x$  is a positive number, find the mean deviation of  $x, 2x+1, 3x+5$ .

(A)  $\frac{2x+6}{3}$       (B)  $\frac{x+6}{3}$   
(C)  $\frac{2x+5}{3}$       (D)  $\frac{2x}{3}$

60. If the relationship among the central tendencies in statistics is defined as  $3X = Y + 2Z$ , then the parameters  $X, Y$  and  $Z$  respectively represent

(A) median, mean and mode  
(B) median, mode and mean  
(C) mean, mode and median  
(D) None of the above

61. If  $G$  is the geometric mean,  $H$  is the harmonic mean and  $A$  is the arithmetic mean of two numbers  $a$  and  $b$  ( $a \neq b$ ), their relationship is given by
- (A)  $AM \leq GM \leq HM$   
 (B)  $AM \leq GM \geq HM$   
 (C)  $AM \geq GM \leq HM$   
 (D)  $AM \geq GM \geq HM$
62. The mean deviation about the median for the data  
 $3, 9, 5, 3, 12, 10, 18, 4, 7, 19, 21$   
 is
- (A)  $\frac{58}{11}$       (B)  $\frac{54}{11}$   
 (C)  $\frac{50}{11}$       (D)  $\frac{75}{11}$
63. The coefficient of variation is computed by
- (A)  $\frac{\text{Standard Deviation}}{\text{Mean}} \times 100$   
 (B)  $\frac{\text{Standard Deviation}}{\text{Mean}}$   
 (C)  $\frac{\text{Mean}}{\text{Standard Deviation}} \times 100$   
 (D)  $\frac{\text{Mean}}{\text{Standard Deviation}}$
64. The runs scored by a batsman in 5 ODIs are 31, 97, 112, 63 and 12. The standard deviation is
- (A) 24.79      (B) 23.79  
 (C) 37.89      (D) 26.79
65. If 40% of boys opted for maths and 60% of girls opted for maths, then what is the probability that maths is chosen in case half of the class' population is girls?
- (A) 0.5      (B) 0.6  
 (C) 0.7      (D) 0.4
66. Company  $A$  produces 10% defective products, company  $B$  produces 20% defective products and company  $C$  produces 5% defective products. If choosing a company is an equally likely event, then the probability that the product chosen is defective is
- (A) 0.22      (B) 0.11  
 (C) 0.12      (D) 0.21
67. A box of cartridges contains 30 cartridges of which 6 are defective. If 3 of the cartridges are removed from the box in succession without replacement, what is the probability that all the three cartridges are defective?
- (A)  $\frac{6 \times 5 \times 4}{30 \times 30 \times 30}$   
 (B)  $\frac{6 \times 6 \times 6}{30 \times 30 \times 30}$   
 (C)  $\frac{6 \times 5 \times 4}{30 \times 29 \times 28}$   
 (D)  $\frac{6 \times 5 \times 3}{30 \times 29 \times 28}$

68. If  $m$  is the mean of a Poisson distribution, then the variance is
- $m^2$
  - $m$
  - $\sqrt{m}$
  - $0.5m$
69. If the probability of hitting an object is 0.8, find the variance.
- 0.18
  - 0.16
  - 0.14
  - 0.12
70. The geometric mean of the series having arithmetic mean = 25 and harmonic mean = 16 is
- 16
  - 20
  - 25
  - 30
71. The coefficient of correlation  $r$  satisfies
- $|r| \leq 1$
  - $0 < r < 1$
  - $|r| > 1$
  - $-1 < r < 0$
72. If the variance of the data is 121, then the standard deviation of the data is
- 121
  - 11
  - 12
  - 21
73. If  ${}^n P_r = 3024$  and  ${}^n C_r = 126$ , then the values of  $n$  and  $r$  are
- 9, 4 respectively
  - 10, 3 respectively
  - 12, 4 respectively
  - 11, 4 respectively
74. To which of the following options do individual respondents, focus groups and panel of respondents belong?
- Primary data sources
  - Secondary data sources
  - Itemized data sources
  - Pointed data sources
75. What are the variables whose calculation is done according to the weight, height and length?
- Flowchart variables
  - Discrete variables
  - Continuous variables
  - Measuring variables
76. Specialized processes such as graphical and numerical methods are utilized in which of the following?
- Education statistics
  - Descriptive statistics
  - Business statistics
  - Social statistics

77. The focus areas for GAINS 2023 (GRSE Accelerated Innovation Nurturing Scheme) include

- (i) artificial intelligence, renewable energy, energy efficiency and efficiency enhancement
- (ii) renewable energy, energy efficiency and efficiency enhancement
- (iii) artificial intelligence, renewable energy and energy efficiency
- (iv) artificial intelligence, renewable energy and efficiency enhancement

Select the correct answer using the codes given below.

- (A) Only (i) and (iii) are correct
- (B) Only (ii) and (iv) are correct
- (C) (i), (ii), (iii) and (iv) are correct
- (D) None of the above is correct

78. Which of the following groups **does/do not** belong to the G-20?

- (i) Argentina, Australia, Brazil, Canada
- (ii) China, France, Germany, India
- (iii) Indonesia, Italy, Japan, Republic of Korea
- (iv) Mexico, Russia, Saudi Arabia, Peru

Select the correct answer using the codes given below.

- (A) Only (iv) is correct
- (B) Only (i) and (iii) are correct
- (C) Only (ii) and (iv) are correct
- (D) None of the above is correct

79. According to the GDP growth forecast report of the Asian Development Bank

- (i) India's economy to grow by 6.4% in FY-2023, rise to 6.7% in FY-2024
- (ii) inflation will likely moderate to 5% in FY-2023 and slow further to 4.5% in FY-2024
- (iii) geopolitical tensions and weather-related shocks are key risks to India's economic outlook
- (iv) manufacturing growth in FY-2023 is expected to improve by a strong global demand

Select the correct answer using the codes given below.

- (A) Only (i) and (iv) are correct
- (B) Only (i), (iii) and (iv) are correct
- (C) Only (i), (ii) and (iii) are correct
- (D) All of the above are correct

80. Consider the following statements and ascertain their correctness :

- (i) Nepal has decided to allow India to develop a second hydropower project in the country.
- (ii) At present, India is developing a 900 MW Arun-III hydroelectric project in Nepal which is scheduled to be completed in 2024.
- (iii) Indo-Nepal collaboration in the field of hydroelectric power will continue another 27 years.
- (iv) This collaboration is made on the basis of 50:50 power sharing pattern.

Select the correct statements using the codes given below.

- (A) Only (i) and (ii) are correct
- (B) Only (ii) and (iii) are correct
- (C) Only (iii) and (iv) are correct
- (D) Only (iv) and (i) are correct

81. The Nobel Prize in Physics, 2022 was awarded jointly to Alain Aspect, John F. Clauser and Anton Zeilinger for

- (A) the contributions to our understanding of the evolution of the universe and the Earth's place in the cosmos
- (B) the discovery that black hole formation is a robust prediction of the general theory of relativity
- (C) the experiments with entangled photons, establishing the violation of Bell's inequalities and pioneering quantum information science
- (D) their method of generating high-intensity, ultra-short optical pulses

82. Currently ranked World No. 1 Serbian professional tennis player in singles is Novak Djokovic. He has won an all-time record of 23 Grand Slam men's singles titles, including a record of 10 Australian Open titles. By Grand Slam tournaments, we mean

- (A) The Australian Open, the French Open, the Wimbledon and the WTP Finals
- (B) The Australian Open, the French open, the Wimbledon and the US Open
- (C) The Australian Open, the French Open, the ATP Finals and the WTP Finals
- (D) The Australian Open, the BNP Paribas Open, the Wimbledon and the US Open

83. Articles 356 and 360 of the Indian Constitution empower the President with which of the following?

- (A) Article 356 empowers to take over administration of the Union Government. Article 360 empowers imposition of Army rule.
- (B) Article 356 acknowledges the special status of the State of Jammu and Kashmir in terms of autonomy. Article 360 empowers the President to impose financial emergency.
- (C) Article 356 envisages proclamation of emergency and dissolves a State Government. Article 360 is proclamation of financial emergency.
- (D) None of the above

84. The SAMARTH Campaign was recently launched by the Union Ministry of Rural Development and Panchayati Raj with an objective to

- (A) promote digital transactions in rural areas with a focus on empowering women
- (B) promote entrepreneurship in rural areas with a focus on rural employment
- (C) promote strengthening of cooperatives in rural areas with a focus on empowering women
- (D) All of the above

- 85.** Pradhan Mantri Jan Vikas Karyakram (PMJVK) is a Centrally Sponsored Scheme (CSS) and is implemented by the
- (A) Ministry of Minority Affairs for developing infrastructure projects in identified minority areas for their socio-economic development
  - (B) Ministry of Tribal Affairs for developing infrastructure projects in identified tribal areas for their socio-economic development
  - (C) Ministry of Minority Affairs for developing employment generation projects in identified minority areas for the improvement of their livelihood
  - (D) National Commission for Scheduled Castes for developing employment generation projects in identified SC dominated areas for the improvement of their livelihood
- 86.** On April 19, 2023, the Union Cabinet approved the 'National Quantum Mission' for promoting the quantum technology sector and promoting economic growth through its development. Consider the following in connection with this mission :
- (i) The mission aims to make India a leading nation in the quantum technology sector and promote economic growth
  - (ii) The total cost of the mission is over six thousand crore rupees
  - (iii) The mission will run from 2023-24 to 2028-29
  - (iv) Currently, six countries including USA, Canada, and France have quantum technology
- Select the correct answer using the codes given below.
- (A) Only (i), (ii) and (iii) are true
  - (B) Only (i), (iii) and (iv) are true
  - (C) Only (i), (ii) and (iv) are true
  - (D) Only (ii), (iii) and (iv) are true
- 87.** In recent days, there has been dispute between India and China for the former's decision to build geothermal plants on Chinese border. Which of the following statements is **wrong** in relation to geothermal energy?
- (A) Geothermal energy uses the heat generated by the Earth's core to produce clean energy.
  - (B) The main disadvantage of geothermal energy is its high cost and its inability to operate round the year at high capacity.
  - (C) According to initial estimates, India has the potential to produce 10 GW of geothermal energy.
  - (D) It is the only renewable energy source that is unaffected by day-night or seasonality variance and is available 24x7.
- 88.** The Navigation with Indian Constellation (NavIC) is a regional navigation satellite system developed by ISRO that is a
- (A) geostationary satellite that works in direct link with strategic ground stations
  - (B) constellation of seven satellites in orbit that works in tandem with ground stations
  - (C) low earth orbit satellite which is used for remote sensing, high-resolution earth observation, and scientific research, as data can be acquired and transmitted rapidly
  - (D) None of the above

- 89.** On 2nd June, 2023, three trains collided in Balasore district, in the State of Odisha in Eastern India. Consider the following statements in connection with the accident :
- (i) The Coromandel Express entered the passing loop instead of the main line and collided with a goods train.
  - (ii) Due to the high speed of the Coromandel Express, its 21 coaches derailed and 3 of those collided with the on-coming Bengaluru-Howrah SF Express on the adjacent track.
  - (iii) The accident could happen only due to the blatant negligence of the railways in the matter of signalling and rail traffic control.
  - (iv) The gruesome accident could have been avoided had the Kavach train protection system been in place.
- Select the correct statements using the codes given below.
- (A) Only (i), (ii) and (iv) are correct
  - (B) Only (i), (iii) and (iv) are correct
  - (C) Only (i), (ii) and (iii) are correct
  - (D) All of the above are correct
- 90.** The common feature of the US, the UAE, the Netherlands, China, Bangladesh, Singapore, Brazil, UK, Saudi Arabia, Indonesia, Germany, Hong Kong in terms of their relationship with India is that
- (A) these countries are among India's leading export destinations
  - (B) India maintains a trade balance with all these countries
  - (C) India has signed strategic partnership with these countries
  - (D) All of the above
- 91.** The primary objectives of this Act are to encourage an orderly expansion and ongoing operation of the foreign exchange market of India, promote external trade and payments, and protect the foreign exchange reserves of the country. No person resident in India shall transfer any foreign exchange, foreign security or any immovable property situated outside India. What is the Act referred to here?
- (A) NSA
  - (B) MISA
  - (C) UAPA
  - (D) FEMA
- 92.** What is Magna Carta? Which Part of the Indian Constitution is called the Magna Carta?
- (A) The Magna Carta signifies the transition from creating goods by hand to using machines. Part-IV of the Indian Constitution is described as the Magna Carta.
  - (B) The Magna Carta signifies a period of European history that formed a bridge between the middle ages and the modern era. Part-V of the Indian Constitution is described as the Magna Carta.
  - (C) The Magna Carta signifies a document constituting a fundamental guarantee of rights and privileges. Part-III of the Indian Constitution is described as the Magna Carta.
  - (D) The Magna Carta signifies effort to make peace between the unpopular king and a group of rebel barons in England. Part-VI of the Indian Constitution is described as the Magna Carta.

93. On May 2023, the ORAN test bed project has been launched. In this context, which of the following statements is/are **incorrect**?

- (i) ORAN refers to Open Radio Accessible Network.
- (ii) It will facilitate the development of a fully indigenous 5G radio network in India.
- (iii) It provides telecom facilities in rural and remote areas of the country.

Select the correct statements using the codes given below.

- (A) Only (i) and (iii)
- (B) Only (ii)
- (C) (i), (ii) and (iii)
- (D) Only (i)

94. 'Sengol' is a symbol of historic legacy which

- (A) was used by former Prime Minister Jawaharlal Nehru on January 26, 1950
- (B) was used in traditional Chola ceremonial transfer of power during enthronement
- (C) is a Tamil term meaning 'full of might and justice'
- (D) evolved during the Chalukya dynasty

95. Consider the following statements :

- (i) The first census of water bodies across the nation was conducted by the Ministry of Jal Shakti.
- (ii) Top five States in terms of the number of water bodies are West Bengal, Uttar Pradesh, Andhra Pradesh, Odisha and Assam.
- (iii) These five States constituted around 53% of the total water bodies in the country.

Which of the above statements is/are correct?

- (A) Only (i) and (iii) are correct
- (B) Only (ii) and (iii) are correct
- (C) Only (i) and (ii) are correct
- (D) All of the above are correct

96. Indian supercomputers 'Pratyush' and 'Mihir' are used for

- (i) weather forecasting
- (ii) air quality study
- (iii) guiding the fishermen for productive fishing
- (iv) detecting natural calamities

Select the correct answer using the codes given below.

- (A) Only (i) and (ii)
- (B) Only (ii), (iii) and (iv)
- (C) Only (i), (iii) and (iv)
- (D) (i), (ii), (iii) and (iv)

97. Consider the following statements pertaining to the 'BrahMos' (also designated as PJ-10) :

- (i) It is a medium-range ramjet supersonic cruise missile that can be launched from submarine, ships, airplanes or land.
- (ii) The BrahMos is notably the fastest supersonic cruise missile in the world.
- (iii) It is a joint venture between the DRDO and the Russian Federation's NPO Mashinostroyeniya.
- (iv) The name BrahMos is formed from the names of two rivers, the Brahmaputra of India and the Moskva of Russia.

Select the correct statements using the codes given below.

- (A) Only (i) and (iii) are correct
- (B) Only (ii) and (iv) are correct
- (C) Only (i), (ii) and (iii) are correct
- (D) All of the above are correct

98. In the world of Bollywood film music, there was a celebrated music director who never composed any song for Lata Mangeshkar, the Nightingale of India. (Lata Mangeshkar never sang any song composed by this music director.) Identify the music director from the options given below.

- (A) O. P. Nayyar
- (B) S. D. Burman
- (C) A. R. Rahman
- (D) Ravi

99. Tata Group Chairman N. Chandrasekaran has been conferred with France's highest civilian award Chevalier de la Legion d'honneur on May 17, 2023

- (A) for his contributions to restore trade balance between India and France
- (B) for his contributions to diversify the scopes of import from France to India
- (C) for his contributions to strengthen the trade relationship between India and France
- (D) All of the above

100. With reference to geopolitical situation of selected districts of Assam, which of the following statements is/are correct?

- (i) All BTR districts share border with Bhutan.
- (ii) Cachar district shares borders with Manipur, Mizoram, Tripura and Meghalaya.
- (iii) The districts Dhubri, Cachar and Karimganj share borders with Bangladesh.

Select the correct statements using the codes given below.

- (A) Only (i)
- (B) Only (i) and (ii)
- (C) Only (i) and (iii)
- (D) (i), (ii) and (iii)