



IB ACIO

Grade II
2021
Solved Paper

INTELLIGENCE BUREAU (IB)
ASSISTANT CENTRAL INTELLIGENCE OFFICER (ACIO)
Grade-II (Executive) Tier-I Exam-2021

INSTRUCTIONS

1. This practice test will be a 1 hour Test.
2. This test consists of Quantitative Aptitude, General Awareness/Studies, Reasoning Ability, and English Language questions with equal weightage of 100 marks.
3. Each question is of 1 marks.
4. There are four sections in the question paper consisting of Quantitative Aptitude (Q.no.1 to 20), Reasoning Ability (Q.no.21 to 40), English Language (Q. no.41 to 60) and General Awareness/Studies (Q. No. 61 to 100).
5. There will be only one correct choice in the given four choices. Each question carries a weightage of 1 mark and 0.25 marks will be deducted for every wrong answer.
6. Hints and explanations have been given at the end.

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QUANTITATIVE APTITUDE

1. In 87659 21 what is the least number that can be filled in blank to make the number divisible by 11.
 - (a) 3
 - (b) 1
 - (c) 2
 - (d) 7
2. 25 percent of a number when subtracted from 100, gives the number itself. Find the number?
 - (a) 32
 - (b) 100
 - (c) 75
 - (d) 80
3. A passenger train consists of 18 boggies, each bogie being 15 m long. The train crosses an electric post in 15 sec. Due to some problem, there bogies were detached. The train now crosses the electric post in _____ sec.
 - (a) 11
 - (b) 10.5
 - (c) 14
 - (d) 12.5
4. The table shows expenditure and income of a firm in various months. In which month was ratio of savings to income maximum.

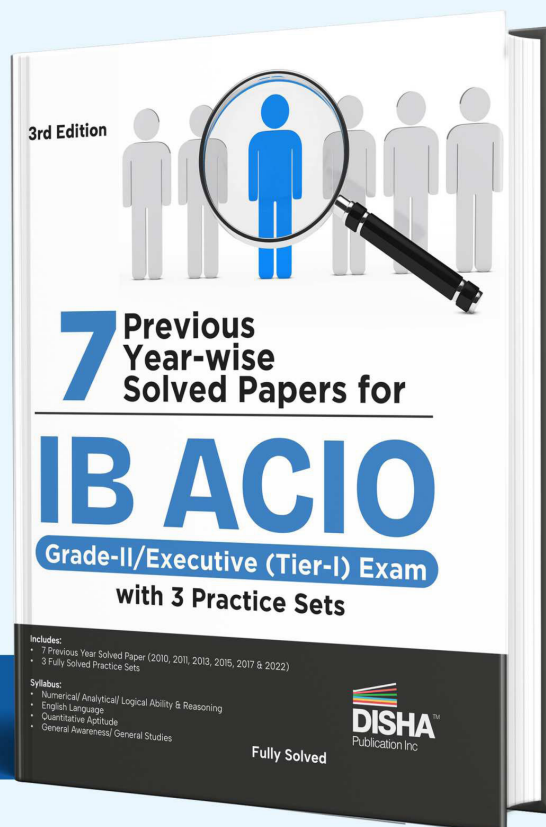
Month	Salary	Expenditure
Jan	40,000	28,000
Feb	35,000	30000
March	37000	30000
April	42000	32000
May	45000	31000

 - (a) April
 - (b) May
 - (c) Feb
 - (d) Jan
5. Arun & Bijay can make paintings in 3 days, Bijay & Chandan can make those paintings in 5 days. If Arun, Bijay & Chandan together can finish the work in 2 days, then Arun & Chandan together will do it in _____ days.
 - (a) 15/7 days
 - (b) 4/3 days
 - (c) 5 days
 - (d) 8/7 days
6. The marks of 5 students are 25, 35, 45, 50, 15. Calculate the average marks.
 - (a) 34
 - (b) 30
 - (c) 35
 - (d) 32
7. Simplify the following.

$$\left[\left(1 - \frac{1}{2}\right) \left(1 - \frac{1}{3}\right) \left(1 - \frac{1}{4}\right) \dots \left(1 - \frac{1}{100}\right) \right]^{-0.5}$$
 - (a) 10
 - (b) 100
 - (c) $\frac{1}{100}$
 - (d) $\frac{1}{10}$
8. Find the total surface area of cube whose volume is 64 m³.
 - (a) 96 m²
 - (b) 36 m²
 - (c) 25 m²
 - (d) 64 m²
9. Find a single discount equivalent to two successive discounts of 15 percent and 5 percent.
 - (a) 20.20
 - (b) 19.25
 - (c) 10.5
 - (d) 18.75
10. The ratio of two numbers is 3 : 5 and their LCM is 42 greater than their HCF. What is the value of the larger number?
 - (a) 9
 - (b) 15
 - (c) 18
 - (d) 12
11. The average of 5 consecutive numbers is 21. The highest number will be?
 - (a) 22
 - (b) 19
 - (c) 23
 - (d) 21
12. Sanjay and Amit can do a piece of work in 8 days. Amit alone can do it in 12 days. In how many days will Sanjay do it alone?
 - (a) 24 days
 - (b) 12 days
 - (c) 16 days
 - (d) 20 days
13. A boat goes 20 km downstream in 30 mins. The speed of the stream is 10 km/h. Find the speed of the boat.

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ISBN
9789355645616



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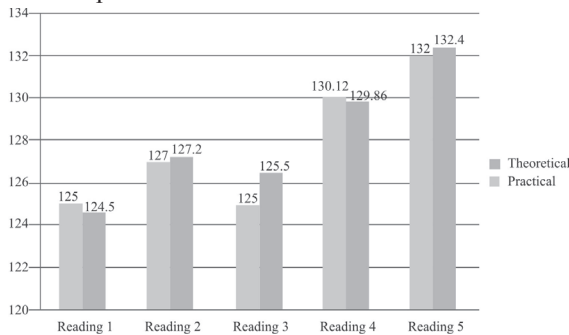
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- (a) 30 km/h
(b) 60 km/h
(c) 20 km/h
(d) 45 km/h
14. Find the volume of a sphere with diameter as 21 cm. (The value of π is $22/7$)
(a) 3361 cu cm (b) 4441 cu cm
(c) 4132 cu cm (d) 4851 cu cm
15. The ratio of the length of the parallel sides of a trapezium is 3 : 2. The shortest distance between them is 15 cm. If the area of the trapezium is 1350 sq. cm, then find the difference of the lengths of the parallel sides.
(a) 65 cm (b) 95 cm
(c) 36 cm (d) 21 cm
16. The ratio of two numbers a and b is 7 : 15, respectively. Their least common multiple is 840.
What is $(b + a) : (b - a)$?
(a) 7 : 11 (b) 15 : 4
(c) 11 : 4 (d) 15 : 11
17. The given bar graph represents both, theoretical and practical readings obtained in 5 rounds of readings while conducting a scientific experiment.



- What is the ratio of the difference obtained in readings 2 and 5 when calculated theoretically to the difference obtained in readings 1 and 3 when readings were taken practically?
- (a) 3 : 2 (b) 1 : 1
(c) 2 : 1 (d) 5 : 2
18. The graph shows number of visitors (ladies and gents) in four different museums namely 1, 2, 3 and 4. Which museum had the maximum number of visitors?



- (a) 3 (b) 4
(c) 2 (d) 1
19. Find the rate of interest if amount after 2 years on simple interest on a capital of ₹ 1000 is ₹ 1200.
(a) 15 percent (b) 10 percent
(c) 20 percent (d) 5 percent
20. LCM and HCF of two numbers are respectively 3 and 18. If one of them is 9, find the other number.
(a) 9 (b) 8
(c) 3 (d) 6

GENERAL AWARENESS

21. The FIFA Women's World Cup 2023™ will be staged in which country?
1. Brazil
2. America and New Zealand Jointly.
Select the correct answer by using the code mentioned below.
(a) Only 2 (b) Only 1
(c) Both 1 and 2 (d) Neither 1 nor 2
22. Which of the following states has announced the commissioning of its own internet service under the project named K-FON?
(a) Kerala (b) Gujarat
(c) Goa (d) Karnataka
23. What is Rakshita?
1. It is an ambulance which has been launched by the Central Reserve Police Force (CRPF) and Defence Research and Development Organisation (DRDO).
2. It is an ambulance to attend urgent evacuation needs of the security force personnel in event of a medical emergency or battle injury.

3. It is developed by Border Security Forces (BSF) for urgent evacuation in event of a medical emergency or battle injury.
Select the correct answer by using the code mentioned below.
- (a) Only 2 (b) Only 1 and 2
(c) Only 1 (d) Only 2 and 3
24. Consider the statement related with Campaign 'SAKSHAM'.
1. To create awareness among the consumers of fossil fuels.
 2. The campaign will include activities such as cyclothon, farmer workshops, seminars, painting competition for awareness.
- Select the correct answer by using the code mentioned below.
- (a) Both 1 and 2 (b) Only 1
(c) Only 2 (d) Neither 1 nor 2
25. Which of the following company has announced that it has agreed to acquire majority stake in GVK Airport Developers Ltd that runs the Mumbai International airport?
- (a) GMR Infrastructure Limited
(b) Adani Airport Holdings Ltd.
(c) Reliance Industries Limited
(d) PepsiCo India Holdings Private Limited
26. Elon Musk's SpaceX creates new world record by launching many satellites on single rocket. Consider the following statement in this regard.
1. This created a new world record by launching 143 satellites on a single rocket.
 2. It includes commercial and government Cube Sats, microsats and 10 Starlink satellites.
- Which Statements given above is/are correct?
- (a) Only 2 (b) Only 1
(c) Neither 1 nor 2 (d) Both 1 and 2
27. Who has released the book, "India 2020 yearbook"?
- (a) Amit Shah
(b) Narendra Modi
(c) Shashi Tharoor
(d) Prakash Javadekar
28. Consider the statement in regard of Nikhil Srivastav.
1. He is the winner of the prestigious 2021 Michael and Sheila Held Prize.
 2. He won the prize for classifying and describing the structure of algebraic varieties.
- Select the correct answer by using the code mentioned below.
- (a) Only 1 (b) Only 2
(c) Neither 1 nor 2 (d) Both 1 and 2
29. IAS officer Vini Mahajan became the first Woman Chief Secretary of which state in June 2020?
- (a) UP (b) Punjab
(c) Rajasthan (d) Haryana
30. From which countries does IC-IMPACTS Research Centre of Excellence belong?
- (a) India and Canada (b) India and France
(c) India and Russia (d) India and Japan
31. For which country's Navy China has launched first of the four Advanced Warships in August 2020?
- (a) Kenya (b) Pakistan
(c) India (d) Sri Lanka
32. Who has been appointed as the governor of Meghalaya in August 2020?
- (a) R.N. Ravi (b) Acharya Devvrat
(c) Satya Pal Malik (d) S. Narayan Arya
33. Which country has decided to construct monument for the Indian Soldiers killed by Pakistan in the 1971 Liberation War?
- (a) Afghanistan (b) Bangladesh
(c) Sri Lanka (d) Nepal
34. The Union Cabinet approved the adoption of the Jammu and Kashmir Panchayati Raj Act, 1989.
1. The move will help establish all the four tiers of grassroots-level democracy in Jammu and Kashmir.
 2. This will help the people of Jammu and Kashmir elect their representatives at the village, block and district levels.
- Select the correct answer using the code given below.
- (a) Neither 1 nor 2 (b) Only 2
(c) Only 1 (d) Both 1 and 2
35. "On 27th July 2020, Ministry of Electronics and Information Technology (Meity) introduced

PLI or Production Linked Incentive Scheme for pharmaceutical manufacturing. Which of the following points is/are NOT covered under this scheme?

1. Production Linked Incentives of upto INR 6,940 crores have been approved
2. A financial incentive will be given to eligible manufacturers of identified 41 eligible products which covers 53 APIs, for 6 years, committed investment and sales made by selected applicant for the eligible products.
3. The Net Worth of the Applicant (including that of Group Companies), as on the date of application, shall not be less than 30% of the total committed investment.
4. The scheme shall be operational during the period FY 2020-2021 to 2024-2025

Select the correct answer using the code given below.

- (a) 1 only (b) 2 only
(c) 3 and 4 (d) 4 only
36. Which of the following statement is true in regard of "UNESCO-Bangladesh Bangabandhu Sheikh Mujibur Rahman International Prize for the Creative Economy"

1. It was approved at the 210th session of UNESCO's Executive Board of UNESCO.
2. An amount of US\$100,000 will be given to the recipients of the award.

Select the correct answer by using the code mentioned below.

- (a) Only 2 (b) Both 1 and 2
(c) Only 1 (d) Neither 1 nor 2
37. In 2020, there are 5 cyclones formed in the north Indian ocean. Which of the following severe cyclonic storms formed over Arabian seas and headed towards the Somali coast?

1. Gati
2. Amphan
3. Nisarga

Select the correct answer using the code given below.

- (a) 1 only (b) 2 only
(c) Both 1 and 2 (d) Both 2 and 3
38. Match List-I (Author) with List-II (Books) and select the correct answer using the code given

below the list.

List-I (Author)	List II (Books)
A. Chinmoy Guha	1. Ghumer Darja Thele
B. Dharman	2. Sool
C. Shyam Besra	3. Marom
D. Sashi Tharoor	4. An Era of Darkness: The British Empire in India

Code:

	A	B	C	D
(a)	1	2	3	4
(b)	2	3	1	4
(c)	3	2	1	4
(d)	1	3	2	4

39. India has tied up for 8 million pounds medicinal research in July 2020 with UK. What is the ratio of the contribution of UK and India?

- (a) 1 : 3 (b) 1 : 1
(c) 2 : 1 (d) 1 : 2

40. In August 2020, the Africa Regional Certification Commission certified the WHO African Region as free from _____ after four years without a case?

- (a) Tetanus (b) Chicken pox
(c) Rubella (d) Wild polio

REASONING ABILITY

41. Find the missing number in the matrix given below:

27	12	225
26	13	169
30	21	?
26	12	196

- (a) 64 (b) 100
(c) 81 (d) 121
42. Select the option that is related to the third number in the same way as the second number is related to the first number.

7 : 393 :: 9 : ?

- (a) 811 (b) 729
(c) 812 (d) 810
43. Which of the answer figures is the exact mirror image of the given problem figure when the mirror is held at the right side?

Problem figure:



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

44. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement 1 : All roses are Pink.

Statement 2 : Some Pinks are Lotus.

Conclusion I : All Lotus are Roses.

Conclusion II : Some Pinks are Roses.

- (a) Neither I nor II follows
(b) Both I and II follows
(c) Only conclusion I follows
(d) Only conclusion II follows
45. In a certain code language, BABE is coded as YZYV then what is the code for ACID?
- (a) ZXNR (b) ZXRW
(c) YVOS (d) ZXWR
46. A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

DF, GJ, KM, NQ, RT, ?

- (a) XY (b) UV
(c) EI (d) UX

47. Select the option that is related to the third term on the same basis as the second term is related to the first term.

Warrior : Sword :: Author : ?

- (a) Book (b) Page
(c) Pen (d) Ink

48. 25 customers are standing in a row outside a supermarket. Rahul, a customer standing in the row, was shifted by 5 places towards the left end and 6 new customers joined from the left end, then he became 11th from the left end. What was his earlier position from the right end?

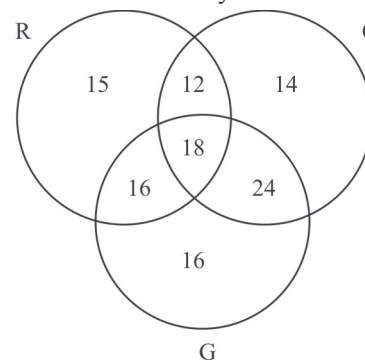
- (a) 15th (b) 16th
(c) 14th (d) 17th

49. Find the missing term in the following number series.

45, 65, 165, 345, _____

- (a) 625 (b) 585
(c) 605 (d) 565

50. In the given Venn diagram, "Group R" represents those who have visited "Russia", "Group C" represents those who have visited "China" and "Group G" represents those who have visited "Japan". The number given in the diagram represent the number of persons in that particular category. If out of the total number of persons who have visited at least two countries, 60% are females then how many of them are males?



- (a) 42 (b) 28
(c) 24 (d) 32
51. 'A + B' means 'A is the son of B'. 'A - B' means 'A is the daughter of B', 'A × B' means 'A is the mother of B'. 'A ÷ B' means 'A is the brother of B'. Which

of the following equations indicates that 'G is the son of D'?

- (a) $G + F \times E - D \div C$ (b) $F + G \times E \div D - C$
 (c) $G \times F + E \div D - C$ (d) $F + G \div E \times D - C$

52. Find the missing term in the following series.
 AD25, CE64, EF121, GG196, _____

- (a) II324 (b) IH289
 (c) IH256 (d) IJ441

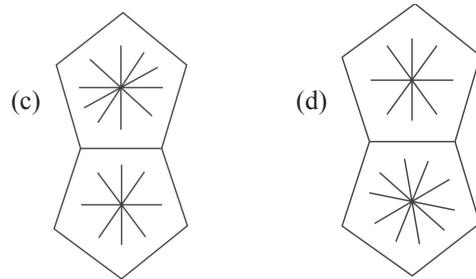
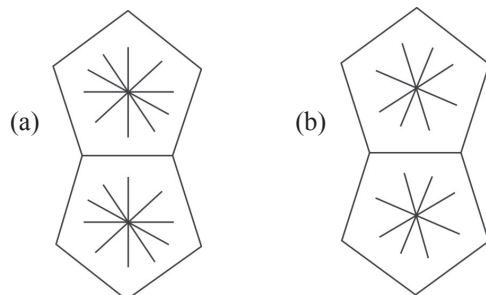
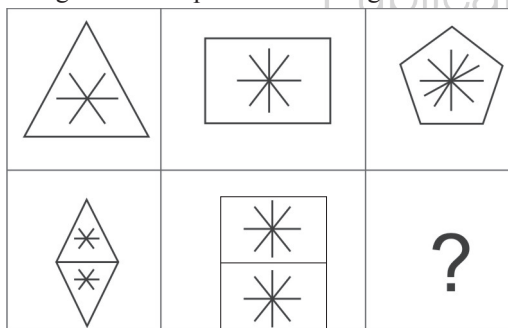
53. Pointing to a child in the photograph, a gentleman said "His father's father is my brother." How is this gentleman related to the child?

- (a) Grand – uncle (b) C a n ' t b e determined
 (c) Uncle (d) Grand – father

54. Among 500 villagers, 40% are doing businesses and 80% are doing jobs. If all of them are either doing business or jobs, then the number of villagers who are doing only job are how much more than that who are doing only business?

- (a) 200 (b) 100
 (c) 400 (d) 300

55. Identify the missing figure from the answer figures to complete the matrix given below.



56. In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:

- I. No R is V.
 II. No L is M.
 III. No R is L.

Conclusions:

- I. Some V are not M.
 II. No M is L.
 III. Some L are not R.

- (a) Both conclusion I and II follows
 (b) All conclusion follows
 (c) Both conclusion I and III follows
 (d) Both conclusion II and III follows

57. 6 boys are sitting on 6 different chairs numbered 1 to 6. A is sitting neither on chair 2 nor on chair 5. F is sitting either on chair 4 or on chair 6. E is sitting on the chair 1 and D is sitting on the chair 3. If B is sitting either on chair 2 or chair 4 then on which chair is C sitting?

- (a) 5 (b) 2
 (c) 6 (d) 4

58. Find the missing term in the following letter series.

ACE, JLN, RTV, _____

- (a) ACE (b) ZBD
 (c) YAC (d) XZB

59. There is a family of six members. There are two married couples. X is a daughter of F, who

has two children. F is the mother of Y. Y is the husband of A. Z is nephew of X. B is the husband of X. B has no siblings. How is B related to F?

- (a) Daughter - in - Law (b) Sister - in - Law
(c) Son - in - Law (d) Mother - in - Law

60. In the question given below, three statements are given, followed by two conclusions I and II. You have to consider the statement/statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statements:

Some mobiles are laptops.

All laptops are cameras.

No camera is desktop.

Conclusion:

I. All desktop being mobile is a possibility.

II. All mobile being cameras is a possibility.

- (a) Both I and II follows (b) Only II follows
(c) Neither I nor II follows (d) Only I follows

ENGLISH LANGUAGE

61. The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'.
- (a) In what turned out to be thrilling
(b) No error
(c) finish, the home team finally came
(d) out on top and won the game.
62. Four words are given, out of which only one word is spelt correctly. Choose the word with the correct spelling.
- (a) Diadictic (b) Didaict
(c) Didiactic (d) Didactic
63. The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'.
- (a) in there opinion in the matters of taking
(b) The assembly was clearly divided

(c) No error

(d) Necessary measures to contain the spread of the virus.

64. Select the most appropriate option to substitute the underlined segment in the given sentence. In case no substitution is needed, select 'No substitution required'.

I would wait for you at the Metro station had I known that you would surely come.

- (a) will be waiting (b) No substitution required
(c) shall wait (d) would have waited

65. Fill in the blank with the appropriate word.

The museum is showcasing _____ exhibit of the writer's early works.

- (a) an erective (b) a retrospective
(c) a perspective (d) an extrospective

66. Select the word that is opposite in meaning (ANTONYM) to the word given below.

Ameliorate

- (a) Retrieve (b) Startle
(c) Relieve (d) Worsen

67. Select the most appropriate meaning of the given idiom.

"Might and main"

- (a) To keep quiet, To say nothing
(b) With all enthusiasm
(c) Approximately, almost, somewhat, to a certain degree
(d) Nonsense or meaningless speech

68. Select the word which means the same as the group of given words.

A notice or announcement in a public medium promoting a product, service, or event or publicizing a job vacancy.

- (a) Adjustment (b) Advertisement
(c) Payment (d) Amazement

69. Select the most appropriate 'one word' for the expression given below.

A powerful whirlpool in the sea or a river.

- (a) Vasiform (b) Lodoform
(c) Maelstrom (d) Cruciform

70. Fill in the blank with the appropriate word.
A _____ tree loses its leaves in autumn and grows new ones in spring.
(a) deciduous (b) residuous
(c) assiduous (d) dividuous
71. Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully. Select the option 'no correction required' if the sentence is correct as given.
This newly arisen (evidence could have proved) to be the final nail in the coffin for the accused.
(a) evidence could have been proved
(b) No correction required
(c) evidence could prove
(d) evidence has proof
72. Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully. Select the option 'no correction required' if the sentence is correct as given.
(Everyone carefully and methodically were trying to) solve the problem given by the boot camp instructor.
(a) Everyone had carefully and methodically trying to
(b) Everyone was carefully and methodically trying to
(c) Everyone were carefully and methodically trying to
(d) No correction required
73. Some parts of a sentence have been jumbled up, and labelled P, Q, R and S. Select the option that gives the correct sequence in which these parts can be rearranged to form a meaningful and grammatically correct sentence.
For it was but a pool
P. of hopes and nothing more,
Q. his words did not
R. action and efforts
S. coincide with his
which were needed.
(a) RPQS (b) PQSR
(c) SQPR (d) PSQR
74. Select the most appropriate meaning of the given idiom.
"Go down like a lead balloon"
(a) To be received badly by an audience
(b) To be ready
(c) To gamble everything you have
(d) To get away from, to escape
75. Select the most appropriate synonym of the given word.
Aggressive
(a) Vaporous (b) Distinct
(c) Hostile (d) Atmospheric
76. Fill in the blank with the appropriate word.
The man was charged with _____ after murdering the king.
(a) genocide (b) matricide
(c) homicide (d) regicide
77. Given below are four sentences which are jumbled. Pick the option that gives their correct order.
A. The truth of the matter is that everyone is so unique that all comparison is utterly wrong - so it is best to be your own self.
B. It's not your fault because you have been brought up and educated in such a way that you are constantly comparing yourself with others.
C. For example, someone or other is taller than you, more beautiful, more intelligent or more virtuous and you are always in a state of inferiority and suffering.
D. These days many of you suffer from an inferiority complex in some way or other, for the simple reason that you go on comparing.
(a) DABC (b) ADBC
(c) ABDC (d) DBCA
78. Out of all the alternatives given, select the word which closely fits the given idiom/phrase.
Don't count your chickens before they hatch
(a) Don't count on something good happening until it's happened.
(b) Do something without having planned before hand.
(c) Good things come after bad things.
(d) To describe exactly what is causing a situation or problem.

79. Identify the segment in the sentence which contains a grammatical error.
I knew that Aparna was speaking the truth and decided to stand besides her during the trial.
(a) decided to (b) I knew
(c) stand besides her (d) was speaking
80. Some parts of a sentence have been jumbled up, and labelled P, Q, R and S. Select the option that gives the correct sequence in which these parts can be rearranged to form a meaningful and grammatically correct sentence.
The Government reforms imposed by
P. series of major social, political, legal and
Q. the Great Reforms by historians, were a
R. governmental reforms in the
S. Tsar Alexander II of Russia, often called Russian Empire carried out in the 1860s.
(a) SRQP (b) SQPR
(c) PSQR (d) RSQP
84. In which Indian state is the Barabati Fort located?
(a) Kerala (b) West Bengal
(c) Maharashtra (d) Odisha
85. Consider the following statements in reference to Harsha Chhina Mogha Morcha.
1. It was an agrarian revolt lauched in June 1946 by remodeling the canal outlets under the leadership of the communist party.
 2. The campaign was launched against the decision of the British government to decrease the supply of irrigation water to farmers.
- Which of the statements given above is/are correct?
(a) Only 2 (b) Both 1 and 2
(c) Only 1 (d) Neither 1 nor 2

GENERAL STUDIES

81. Which of the following pair of monument – state is correct?
I. Sheikh Chilli's Tomb – Haryana
II. Chitradurga Fort – Karnataka
(a) Both I and II (b) Only II
(c) Neither I nor II (d) Only I
82. When was the Lucknow Pact Signed by the Muslim League and the Indian National Congress?
(a) 1916 (b) 1925
(c) 1919 (d) 1905
83. Which of the following are/is fundamental duties/duty in the Constiution of India?
1. An Indian citizen must develop scientific temper, humanism and the spirit of inquiry and reform.
 2. A parent or guardian must provide opportunities for education to one's child or ward between the age of six and fourteen years.
 3. An Indian citizen must value and preserve the rich heritage of the country's composite culture.
86. Match List-I with List-II and select the correct answer using the code given below the Lists.
- | List-I
(Chalcolithic culture sites) | List-II (Rivers of sites of Chalcolithic culture) |
|--|---|
| A. Ahar | 1. Tapti |
| B. Kayatha | 2. Narmada |
| C. Svalda | 3. Kalisindh |
| D. Malwa | 4. Banas |
- (a) A – 2, B – 4, C – 1, D – 3
(b) A – 4, B – 3, C – 1, D – 2
(c) A – 1, B – 3, C – 2, D – 4
(d) A – 2, B – 1, C – 4, D – 3
87. Consider the following statements with reference to taxation in Budget 2020.
1. Dividend Distribution Tax (DDT) was abolished.
 2. Tax on cooperative societies was to be reduced to 22% plus surcharge and cess as against 30% at present.
- Which of the statements given above is/are correct?
(a) Only 1 (b) Neither 1 nor 2
(c) Only 2 (d) Both 1 and 2

88. Over how many Indian states does the Deccan Plateau extend?

- (a) 3 (b) 8
(c) 5 (d) 6

89. Which of the following compounds act/s as buffering agents in soil?

1. Carbonates 2. Phosphates
3. Arsenates

- (a) Only 1 (b) Only 3
(c) Only 1 and 2 (d) Only 2

90. Consider the following statements in reference to the Gogona musical instrument of India.

1. It is the most simple and smallest Indian rural musical instrument.
2. It originated in Manipur.
3. It is a mouth instrument made from a single piece of bamboo with a split at one end.
4. It is a part of the musical culture of the Meitei community.

Which of the statements given above are correct?

- (a) Only 1 and 3 (b) Only 1 and 2
(c) Only 1, 2 and 3 (d) Only 2, 3 and 4

91. The book 'An Extraordinary life' is based on whose biography?

- (a) Arun Jaitley
(b) Manohar Parrikar
(c) Atal Bihari Vajpayee
(d) Sushma Swaraj

92. Spirogyra is an example of which of the following algae?

- (a) Red algae (b) White algae
(c) Brown algae (d) Green algae

93. Who among the following Indian personalities is also known as 'Young Turk'?

- (a) Chandra Shekhar (b) Bhagat Singh
(c) Lala Lajpat Rai (d) Bal Gangadhar Tilak

94. Which of the following statements refers to the process of 'parthenogenesis'?

1. It is a natural form of asexual reproduction in which growth and development of embryos occur without fertilisation.

2. It is a mode of reproduction in which a male organism's sperm fertilises a female organism's egg outside of the female's body.

3. It is a mode of reproduction in which a male organism's sperm fertilises a female organism's egg inside of the female's body.

Select the correct answer using the codes given below:

- (a) Only 2 (b) Only 3
(c) Only 1 and 2 (d) Only 1

95. Match List-I with List-II and select the correct answer using the codes given below the Lists.

List-I (Rajiv Gandhi Khel Ratna awardees of 2020)	List-II (Sport with which they are associated)
A. Rohit Sharma	1. Para Athletics
B. Vinesh	2. Cricket
C. Mariyappan	3. Table Tennis
D. Manika Batra	4. Wrestling

- (a) A-2, B-1, C-3, D-4
(b) A-2, B-3, C-1, D-4
(c) A-2, B-1, C-4, D-3
(d) A-2, B-4, C-1, D-3

96. _____ is composed of unspecialized living cells with relatively thin cell walls, intercellular space, present in soft part of the plants.

- (a) Complex permanent tissue
(b) Parenchyma
(c) Collenchyma
(d) Sclerenchyma

97. Consider the following statements regarding the 'Health in India-2020 Report' released by the Ministry of Statistics and Programme Implementation.

1. The report highlighted the health of religious communities in the country.
2. Among all the religions, the Zoroastrians were the most susceptible to ailments.
3. Women remained more susceptible to suffering than men.

4. The report stated that the relation between health and religion is not important.
Which of the statements given above are correct?
(a) Only 1, 2 and 3 (b) Only 1 and 2
(c) Only 1 and 3 (d) Only 1, 3 and 4
98. Which of the following bodies had introduced the first official residential housing price index called RESIDEX?
(a) RBI (b) SEBI
(c) NITI Aayog (d) NHB
99. Rajinder Goel is related to which sport?
(a) Cricket (b) Table tennis
(c) Gymnastics (d) Swimming
100. Karakoram, a mountain range, is of great geopolitical significance as:
1. It connects India and China
2. It serves as a watershed for the basins of the Indus and Yarkand rivers
3. The borders of India, China, Pakistan along Afghanistan and Tajikistan all converge within the Karakoram system
Select the correct answer using the codes given below:
(a) Only 1 and 2 (b) Only 2 and 3
(c) Only 3 (d) Only 2

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HINTS & EXPLANATIONS

QUANTITATIVE APTITUDE

1. (b) $(8 + 6 + 9 + 2) - (7 + 5 + x + 1) = 0$, 11, 22
 $25 - 13 - x = 0$, 11, 22
 $12 - x = 0$, 11
Take $x = 1$
 $12 - 1 = 11$
Number 8 7 6 5 9 1 2 1 divisible by 11.
2. (d) Let the number = x
 $100 - \frac{25}{100} \times x = x$
 $100 = x + \frac{x}{4}$
 $\frac{5x}{4} = 100$
 $x = 80$
3. (d) length of passenger train = 18×15
 $= 270$ m
Speed of train = $\frac{270}{15}$
 $= 18$ m/s
Now length of train when three boggies detached
 $= 270 - 15 \times 3$
 $= 225$ m
Train crosses the electric post = $\frac{255}{18}$
 $= 12.5$ sec.
4. (b) Ratio of savings to income maximum in May.
Savings = $45000 - 31000 = 14000$
Income = 45000
Ratio = 14 : 45
5. (a) Arun + Bijay = 3 days
Bijay + Chandan = 5 days
Arun + Bijay + Chandan = 2 days
Let Total paintings = LCM (3, 5, 2) = 30
Efficiency of Arun + Bijay = 10
Bijay + Chandan = 6
Arun + Bijay + Chandan = 15
Individual efficiency of Arun = 9
Bijay = 1
Chandan = 5
Arun + Chandan together do it in =
 $\frac{30}{14} = \frac{15}{7}$
6. (a) sum of marks = $25 + 35 + 45 + 50 + 15 = 170$
average = $\frac{170}{5} = 34$
7. (a) $\left[\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \dots \times \frac{99}{100} \right]^{-1}$
 $\Rightarrow \left[\frac{1}{100} \right]^{-1}$
8. (a) Side of cube (a) = $\sqrt[3]{64}$
 $a = 4$ m
Total surface Area = $6a^2$
 $= 6 \times 4 \times 4$
 $= 96$ m²
9. (b) Successive discount
 $= 15\% + 5\% - \frac{15 \times 5}{100}$
 $= 20 - 0.75$
 $= 19.25$
10. (b) LCM = $15x$
HCF = x
 $15x - x = 42$
 $14x = 42$
 $x = 3$
Larger number = 5×3
 $= 15$
11. (c) Let 5 consecutive numbers
 $= x, x + 1, x + 2, x + 3, x + 4$
 $5x + 10 = 105$
 $5x = 95$

- $x = 19$
 Highest number = $19 + 4 = 23$
12. (a) Sanjay + Amit = 8 days
 Amit = 12 days
 Total work = LCM (8, 12) = 48
 efficiency of Amit = 4
 Sanjay = 2
 Sanjay alone do the work
 $= \frac{48}{2} = 24$ days.
13. (a) Speed of stream (a) = 10 km/h
 Speed in downstream = $b + 10$
 $\text{Speed} = \frac{20}{30} \times 60 = 40$ km/h
 Speed of boat (b) = 30 km/h
14. (d) Volume of sphere = $\frac{4}{3}\pi r^3$
 $r = \frac{21}{2}$ cm
 $\Rightarrow \frac{4}{3} \times \frac{22}{7} \times \frac{21 \times 21 \times 21}{8}$
 $\Rightarrow 11 \times 441 = 4851$ cm³
15. (c) Area of trapezium = $\frac{1}{2}(\text{sum of parallel sides}) \times h$
 Height = 15 cm
 $\Rightarrow \frac{1}{2} \times 5x \times 15 = 1350$
 $\Rightarrow x = 36$
 Difference in length of parallel sides = 36 cm
16. (c) LCM = 840
 $\Rightarrow 7 \times 15 \times x = 840$
 $\Rightarrow x = 8$
 $a = 8 \times 7 = 56$
 $b = 8 \times 15 = 120$
 $\frac{b+a}{b-a} = \frac{176}{64} = \frac{11}{4}$
 $\Rightarrow 11 : 4$
17. (d) Difference in readings 2 & 5 when calculated theoretically
 $= 132 - 127 = 5$
 Difference in readings 1 & 3 when taken practically
 $= 126.5 - 124.5 = 2$
 Required Ratio = $5 : 2$
18. (c) Maximum number of visitors in Museum 2
 $= 370 + 195 = 565$
19. (b) Principle = 1000
 Amount = 1200
 Time = 2 yrs
 Simple Interest = $1200 - 1000 = 200$
 $S.I = \frac{p \times r \times t}{100}$
 $200 = \frac{1000 \times r \times 2}{100}$
 rate = 10%
20. (d) LCM \times HCF = product of numbers
 $3 \times 18 = 9 \times x$
 other number $x = 6$

GENERAL AWARENESS

21. (d) The tournament will be jointly hosted by Australia and New Zealand and is scheduled to take place from 20 July to 20 August 2023. This is scheduled to be the 9th edition of the FIFA Women's World Cup, the quadrennial world championship for women's national football teams organised by FIFA.
22. (a) Kerala government announced commissioning its own ambitious public centric project, K-FON, for providing high speed internet for free to the poor and at affordable rates to others.
23. (b) The Central Reserve Police Force (CRPF) and Defence Research and Development Organisation (DRDO) launched a specially developed 'RAKSHITA' - a bike ambulance to attend urgent evacuation needs of the security force personnel in event of a medical emergency or battle injury in Naxal affected areas.
24. (a) The Ministry of Petroleum and Natural Gas has launched a month-long mass awareness campaign titled 'SAKSHAM' to spread awareness about green and clean energy. The campaign has been organised by the Petroleum Conservation

- Research Association (PCRA), to motivate consumers to switch to cleaner fuels and bring in behavioural change to use fossil fuel intelligently. The pan-India campaign would include various activities such as cyclotron, farmer workshops, seminars, painting competition, CNG vehicle driving contest, etc to spread awareness among masses about the advantages of using clean fuels.
25. (b) Adani Group will have 74 per cent stake in Mumbai's Chhatrapati Shivaji Maharaj International Airport, post the stake purchase transaction, with 50.5 per cent being bought from GVK Group and 23.5 per cent from minority partners including Airports Company South Africa (ACSA), and Bidvest Group.
 26. (d) A veteran rocket from billionaire entrepreneur Elon Musk's SpaceX aerospace company launched 143 spacecraft into space, a new record for the most spaceships deployed on a single mission, according to the company. SpaceX carried satellites for various private and government space bodies. The most number of satellites were of San Francisco's Planet company which had 48 of their SuperDove models on flight. Iceye from Finland, Capella and Umbra from the US, and iQPS of Japan also had their satellites as payloads. Other than these, there were 10 satellites of SpaceX as part of its Starlink constellation.
 27. (d) Information and Broadcasting Minister Prakash Javadekar released the India 2020 Yearbook that highlights the flagship programmes of the government and important events of the year.
 28. (a) Nikhil Srivastava, an Indian mathematician, has been named winner of the prestigious 2021 Michael and Sheila Held Prize along with two others for solving long-standing questions on the Kadison-Singer problem and on Ramanujan graphs.
 29. (b) Vini Mahajan, a 1987-batch IAS officer, has been appointed the new chief secretary of Punjab. Her appointment has led to several firsts in Punjab's administrative history — she is the first woman to become chief secretary of Punjab, and marks the first time both Punjab and neighbouring Haryana's chief secretaries are women.
 30. (a) IC-IMPACTS (the India-Canada Centre for Innovative Multidisciplinary Partnerships to Accelerate Community Transformation and Sustainability) is the first, and only, Canada-India Research Centre of Excellence established through the Canadian Networks of Centres of Excellence (NCE) as a new Centre dedicated to the development of research collaborations between Canada and India.
 31. (b) China has launched the Type-054A/P frigate, the second of four "most advanced" warships it is building for Pakistan, amid deepening defence and economic ties between the two allied nations.
 32. (c) Honourable Governor Shri Satya Pal Malik (born 24th July, 1946) was appointed as Governor of Meghalaya by Hon'ble President Shri Ram Nath Kovind on the 18th August, 2020 and assumed office as 21st Governor of the state on 19th August, 2020.
 33. (b) Bangladesh has decided to construct a monument for the Indian soldiers who died in 1971 during the country's struggle for independence from Pakistan.
 34. (b) The Union Cabinet on Wednesday approved the adoption of the Jammu and Kashmir Panchayati Raj Act, 1989. This will help the people of Jammu and Kashmir elect their representatives at the village, block and district levels.
 35. (d) Production Linked Incentive or PLI scheme is a scheme that aims to give companies incentives on incremental sales from products manufactured in domestic units. The scheme invites foreign companies to

set up units in India, however, it also aims to encourage local companies to set up or expand existing manufacturing units and also to generate more employment and cut down the country's reliance on imports from other countries. It was launched in April 2020, for the Large Scale Electronics Manufacturing sector, but later towards the end of 2020 was introduced for 10 other sectors. This scheme was introduced in line with India's Atmanirbhar Bharat campaign.

36. (c) The establishment of the "UNESCO-Bangladesh Bangabandhu Sheikh Mujibur Rahman International Prize for the Creative Economy" was unanimously approved by acclamation at the 210th session of UNESCO's Executive Board. Hence statement I is correct.
37. (b) Five cyclones formed over the north Indian Ocean – Amphan (super cyclonic storm), Nivar and Gati (very severe cyclonic storms), Nisarga (severe cyclonic storm), and Burevi (cyclonic storm) – in 2020. While Nisarga and Gati formed over the Arabian Sea, the remaining three were over the Bay of Bengal. Amphan was the most devastating of these cyclones. It formed in the pre-monsoon season and crossed West Bengal coast over the Sundarbans on May 20. The Very Severe Cyclonic Storm Gati made landfall over the Somalia coast.

38. (a) Correct list is:

List I (Author)	List II (Books)
A. Chinmoy Guha	1. Ghumer Darja Thele
B. Dharman	2. Sool
C. Shyam Besra	3. Marom
D. Sashi Tharoor	4. An Era of Darkness : The British Empire in India

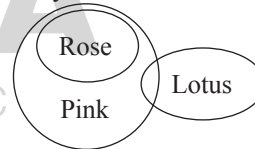
39. (b) India and the UK will collaborate on five new research projects to tackle anti-microbial resistance that can help in the global fight against antibiotic-resistant bacteria and genes. The five projects are planned for

September 2020 and the UK is contributing 4 million pounds from the UK Research and Innovation Fund for International Collaboration. India will also contribute 4 million pounds. The ratio of contribution of UK and India is 1 : 1.

40. (d) The Africa Regional Certification Commission certified the WHO African Region as wild polio-free after four years without a case.

REASONING ABILITY

41. (c) $27 - 12 = 15 \Rightarrow (15)^2 = 225$
 $26 - 13 = 13 \Rightarrow (13)^2 = 169$
 $30 - 21 = 9 \Rightarrow (9)^2 = 81$
 $26 - 12 = 14 \Rightarrow (14)^2 = 196$
42. (a) 811
 $7 : 393 \Rightarrow 7^3 + 7^2 + 1 = 343 + 49 + 1 = 393$
 Similarly,
 $9^3 + 9^2 + 1 = 729 + 81 + 1 = 811$
43. (a) Answer figure (a) is the exact mirror image of the given problem figure.
44. (d) Only conclusion II follows



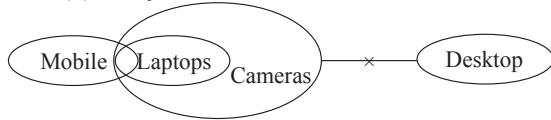
45. (b) The code for 'ACID' is 'ZXRW'

B	A	B	E	A	C	I	D
↓	↓	↓	↓	↓	↓	↓	↓
Y	Z	Y	V	Z	X	R	W

Note: Opposite letter of each alphabet has been taken

46. (d) $\begin{matrix} D & F \\ \boxed{} \\ +2 \end{matrix}$, $\begin{matrix} G & J \\ \boxed{} \\ +3 \end{matrix}$, $\begin{matrix} K & M \\ \boxed{} \\ +2 \end{matrix}$, $\begin{matrix} N & Q \\ \boxed{} \\ +3 \end{matrix}$, $\begin{matrix} R & T \\ \boxed{} \\ +2 \end{matrix}$, $\begin{matrix} U & X \\ \boxed{} \\ +3 \end{matrix}$
47. (c) The sword is the main weapon of a warrior. Similarly, Pen is said to be the weapon of an author.
48. (b) After 6 customers joined;
 Total customers = 31
 Rahul's final position = 11th from the left end.

60. (b) Only II follows



ENGLISH LANGUAGE

61. (a) **"In what turned out to be thrilling"** contains an error; The omission of **"a"** in what should be **"a thrilling finish."** "In what turned out to be a thrilling finish, the home team finally came out on top and won the game." Is the correct sentence.
62. (d) **"Didactic"** (adjective) is correctly spelt; meaning- intended to teach, particularly in having moral instruction as an ulterior motive.
63. (a) **"in there opinion in the matters of taking"** contains an error; **"there"** should be replaced with **"their"** to make the sentence grammatically correct and contextually meaningful. While **"there"** refers to a place, **"their"** means belonging to, or associated with, a group of people
64. (d) **"would have waited"** appropriately replaces the underlined part of the sentence, making it grammatically sound. We use 'would have' in conditions to talk about something that did not happen in the past.
65. (b) **"a retrospective"** fits in the blank most appropriately; meaning- **looking back on or dealing with past events or situations.**
66. (d) **"worsen"** is the appropriate antonym of the word **"Ameliorate"** which mean- make (something bad or unsatisfactory) better.
67. (b) **"with all enthusiasm"** is closest in meaning to the phrase-with might and main is **'with all of one's strength'.**
68. (b) **"advertisement"** most appropriately substitutes the sentence.
69. (c) **"Maelstrom"** is the correct answer;
Vasiform- having the form of a hollow tube.
Lodoform- organoiodine compound with the chemical formula CHI_3 . A pale

yellow, crystalline, volatile substance, it has a penetrating and distinctive odor and, analogous to chloroform, sweetish taste. It is occasionally used as a disinfectant.

Cruciform- having the shape of a cross.

70. (a) **"deciduous"** fits the blank most appropriately, the term deciduous means "falling off at maturity" and "tending to fall off", in reference to trees and shrubs that seasonally shed leaves, usually in the autumn.
71. (c) **"evidence could prove"** appropriately replaces the bracketed sentence; because the result of using this evidence isn't yet known hence **"This newly arisen evidence could prove to be the final nail in the coffin for the accused"**
72. (b) **"Everyone was carefully and methodically trying to"** appropriately replaces the bracketed sentence; **"everyone"** is an indefinite pronoun, we use singular verb with it, hence **"was"** should be placed in the sentence to make it grammatically correct.
73. (b) **PQSR** is the correct order of the sentences. **"of"** preposition in P helps us identify the appropriate sentence that would continue after the introduction, Q and S make a coherent pair, a meaningful sentence **"his words did not coincide with his"** followed by R as evident from, **"with his"** in S which is meaningfully concluded by R.
74. (a) go down like a lead balloon means to be completely unsuccessful or unpopular, hence option (a) **"To be received badly by an audience"** is closest in meaning to the phrase.
75. (c) **"hostile"** is the appropriate synonym of the word **"aggressive"**.
Aggressive-ready or likely to attack or confront; characterized by or resulting from aggression.
Vaporous-lacking in substance or clarity; vague.
Distinct-recognizably different in nature from something else of a similar type.

- Hostile**-showing or feeling opposition or dislike; unfriendly.
76. (d) **“regicide”** fits the blank most appropriately; meaning- the action of killing a king.
Genocide-is the intentional destruction of a people — usually defined as an ethnic, national, racial, or religious group — in whole or in part.
Matricide-the killing of one’s mother.
Homicide-the killing of one person by another.
77. (d) **DBCA** is the correct order of the sentences. D begins a topic, it is in an introductory form, B follow ups the discussion from D coherently, part C provides examples for what has been discussed in the prior sentences, sentence, acts as a conclusion to the other parts as it sums up the idea discussed.
78. (a) “don’t count your chickens” usually used in negative statements to mean that someone should not depend on something hoped for until he or she knows for certain that it will happen, hence option (a) **“Don’t count on something good happening until it’s happened.”** Is closest in meaning.
79. (c) **“stand besides her”** contains an error; “besides” should be replaced by “beside” as “Beside” is a preposition that means “close to” or “next to.” “Besides” is also a preposition that means “in addition to” or “apart from.” Its can also serve as an adverb that means “furthermore” or “another thing.”
80. (b) **SQPR** is the correct order of the sentences.
82. (a) The Lucknow Pact was an agreement reached between the Indian National Congress and the Muslim League (AIML) at a joint session of both the parties held in Lucknow in December 1916. Through the pact, the two parties agreed to allow representation to religious minorities in the provincial legislatures.
83. (a) Originally ten in number, the fundamental duties were increased to eleven by the 86th Amendment in 2002, which added a duty on every parent or guardian to ensure that their child or ward was provided opportunities for education between the ages of six and fourteen years. All three are mentioned are fundamental duties. Hence, 1 is correct.
84. (d) Barabati Fort is a 989 AD fort built by Marakata Keshari of Somavamshi (Keshari) dynasty in Cuttack, Odisha. The ruins of the fort remain with its moat, gate, and the earthen mound of the nine-storied palace, which evokes the memories of past days.
85. (b) Harse Chhina Mogha Morcha was an agrarian revolt in Punjab that took place in 1946–1947. The campaign was launched in June 1946 by remodelling the moghas (canal outlets) under the leadership of the Communist Party, which was later joined by all major political parties of the time, to stand against the decision of the British Government to decrease the supply of irrigation water to farmers. The campaign was headed by Comrade Achhar Singh Chhina, Sohan Singh Josh, Mohan Singh Batth, Baba Karam Singh Cheema, Jagbir Singh Chhina, and Gurdial Singh Dhillon, etc. During the campaign all prominent leaders along with more than a thousand remonstrating peasants were arrested by the police and detained in Lahore Jail for three months. As a result of this movement, the British Government agreed to provide more farming water to agriculturists as per the previous agreed terms.

GENERAL STUDIES

81. (a) Sheikh Chilli’s Tomb is complex of structures located in Thanesar, in the Kurukshetra district of Haryana, India. Chitrادurga is a city and the headquarters of Chitrادurga district, which is located on the valley of the Vedavati river in the central part of the Indian state of Karnataka.

86. (b)

Chalcolithic culture sites	Rivers of site of Chalcolithic culture
Ahar	Banas
Kayatha	Kalisindh
Svalda	Tapti
Malwa	Narmada

87. (d) Finance Minister Nirmala Sitharaman, in her budget presentation 2020, announced the decision to abolish the Dividend Distribution Tax (DDT), while making dividend payment taxable at the hand of the recipient. She also proposed reduction of tax on cooperative societies to 22 per cent plus surcharge and cess, from 30 per cent at present.

88. (b) Deccan Plateau extends to 8 Indian States. It covers the majority of the southern part of the country. It is located between three mountain ranges and extends over eight Indian states.

89. (c) Buffers are necessary to adjust and maintain the pH. Buffering agents can be salts of a weak acid and a weak base. Examples are carbonates, bicarbonates, and hydrogen phosphates.

90. (a) The gogona is a type of jaw harp, a vibrating reed instrument that is used primarily in the traditional Bihu music in Assam. In Boro language, it is known as Gongina. It is made of a piece of bamboo/horn that has a bifurcation on one end.

91. (b) "An Extraordinary Life: A biography of Manohar Parrikar" is a book on the life of the former defence minister and Goa chief minister Manohar Parrikar. The book is co-authored by veteran journalists Sadguru Patil and Mayabhushan Nagvenkar. Manohar Parrikar served as the Defence Minister of India from 2014 to 2017 and also served four times as the Chief Minister of Goa.

92. (d) Spirogyra is an example of Green algae. Spirogyra, (genus Spirogyra), any member

of a genus of some 400 species of free-floating green algae (division Chlorophyta) found in freshwater environments around the world.

93. (a) Shri Chandra Shekhar came to be as 'Young Turk' leader for his conviction, courage and integrity in the fight against vested interests. He was born on April 17, 1927, in a farmer's family in village Ibrahimpatti in District Ballia, Uttar Pradesh. He was President of the Janata Party from 1977 to 1988.

94. (a) Parthenogenesis is a type of asexual reproduction in which a female gamete or egg cell develops into an individual without fertilization. The term comes from the Greek words parthenos (meaning virgin) and genesis (meaning creation.)

95. (d)

Rajiv Gandhi Khel Ratna Awardees 2020	Sports with which they are associated
Rohit Sharma	Cricket
Vinesh	Wrestling
Mariyapan	Para Athletics
Manika Batra	Table Tennis

96. (b) Parenchyma is composed of unspecialized living cells with relatively thin cell walls, intercellular space, present in the soft part of the plants.

97. (a) The Ministry of Statistics and Programme Implementation released a report titled "Health in India". The main objective of the report was to gather quantitative information on India's health sector. The report said that around 7.5% of Indians suffered from ailments. In rural India, around 6.8% suffered from ailments. In Urban India, the numbers were 9.1%. Among all the religions, the Zoroastrians were the most susceptible to ailments. The survey has also found that women remained more susceptible to suffering than men. Around 6.1% of males were

- suffering from ailments and 7.6% of rural women were suffering from ailments.
98. (d) NHB bodies had introduced the first official residential housing price index called RESIDEX. NHB RESIDEX, India's first official housing price index, was an initiative of the National Housing Bank (NHB), undertaken at the behest of the Government of India, Ministry of Finance.
99. (a) Rajinder Goel (20 September 1942 – 21 June 2020) was an Indian cricketer who holds the record for most wickets in Ranji Trophy, India's premier first class competition, despite which he was never selected to play for India.
100. (b) The Karakoram is a mountain range in Kashmir spanning the borders of Pakistan, China, and India, with the northwest extremity of the range extending to Afghanistan and Tajikistan. Most of Karakorum mountain range falls under jurisdiction of Gilgit-Baltistan which is

controlled by Pakistan. Its highest peak, K2, is located in Gilgit-Baltistan. It begins in the Wakhan Corridor (Afghanistan) in the west, encompasses the majority of Gilgit-Baltistan (controlled by Pakistan), and extends into Ladakh (controlled by India) and Aksai Chin (controlled by China). It is the second highest mountain range in the world and part of the complex of ranges including the Pamir Mountains, the Hindu Kush and the Himalayan Mountains. The Karakorams have a glorious past as a Silk Route road connecting India to the markets of Central Asia. The region is also characterized by the rich cultural intermingling of Kashmiri, Turkic, and Buddhist culture through the trading caravans. Once India's historical gateway to Central Asia and China, in the modern era it has become a lingering geopolitical flashpoint between India, China and Pakistan.