PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (Feb-2022) for Recruitment to the post of Analyst in the Department of Home Affairs & Justice, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 120
Time Allowed: 2 Hours

Candidate's Name _____

Father's Name _____

Date of Birth ☐☐ ☐☐ ☐☐☐☐
DD MM YYYY

OMR Response Sheet No. _____

Roll No. _____

Candidate's Signature **(Please sign in the box)**

Question Booklet Set

A

Booklet Series No.

INSTRUCTIONS

1. The candidate shall NOT open this booklet till the time told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL letters. The candidate may also fill the relevant boxes out of 1 to 9 of the Optical Mark Reader (OMR) response sheet, supplied separately
2. Use only blue or black **ball point pen** to fill the relevant columns on this page as well as in OMR sheet. Use of Ink pen or any other pen is not allowed.
3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible or incomplete.
4. Each candidate is required to attempt 120 questions in 120 minutes, except for orthopedically/visually impaired candidates, who would be given 40 extra minutes, for marking correct responses on the OMR sheet.
5. The question paper booklet has 19 pages.
6. The candidates, when allowed to open the question paper booklet, must first check the entire booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should IMMEDIATELY bring this fact to the notice of the Invigilation Staff and obtain a new booklet of the same series as given earlier.
7. The serial number of the new Question booklet if issued for some reason should be entered in the relevant column of the OMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of Question booklet.
8. The paper consists of total 480 Marks. Each question shall carry 4 marks. There are four options for each question and the candidate has to mark the MOST APPROPRIATE answer on the OMR response sheet.
9. There is negative marking (one mark for each question) for answers wrongly answered by the candidate.
10. Use of Electronic/Manual Calculator is prohibited.
11. The candidate **MUST READ INSTRUCTIONS BEHIND THE OMR SHEET** before answering the Questions and check that two carbon copies attached to the OMR sheet are intact.

Section-I

1. When and between whom was the battle of Buxar fought?

a) In 1764, between the English and the Confederacy of Mir Qasim.
b) In 1764, between Dupleix and the Confederacy of Mir Qasim.
c) In 1765, between Lord Cornwallis and the Confederacy of Mir Qasim.
d) In 1780, between Warren Hastings and Mir Jafar.

2. Which of the below is incorrectly matched in reference to the Indian Rebellion of 1857

a) Kanpur ----------Begam Hazrat Mahal
b) Delhi ----------Bakht Khan
c) Faizabad ----------Kunwar Singh
d) Bareilly ----------Khan Bahadur

3. The term *Mahalwari* System is defined as

a) It comes from the word Mahalla
b) It stood for Dual Government
c) The system derives its name from the word *mahal* which means a estate or a village
d) Revenue settlement with a zamindar of a village

4. Who authored the book *Poverty and Un-British Rule in India*?

a) R.C.Dutt
b) Dadabhai Naoroji
c) Rajani Palm Dutt
d) Bipan Chandra

5. With reference to Raja Ram Mohan Roy, which of the following statements is/are correct?

1) He believed that English education would open the gates of the liberal thought of the English in India.
2) He sponsored the opening of the Hindu College and fought for the freedom of press
3) He was the first man to enunciate the rights of man
4) He cannot be called as prophet of Humanity

a) 1 and 2
b) 1, 2 and 3
c) 3 and 4
d) 1 and 3

6. Who amongst the following introduced railways for the first time in India?

a) Lord Wellesley
b) Lord Hastings
c) Lord Dalhousie
d) Lord Ripon

7. Which one of these animals was not represented on the seals and terracotta art of Harappan Culture?

a) Unicorn b) Tiger c) Cow d) Rhinoceros

8. The famous drama, 'Mudrarakshasa' was written by

a) Malayakethu b) Visakhadatta c) Kautilya d) Chanakya

9. The Allahabad pillar inscription was composed by?

a) Meghavarma b) Harisena c) Rudradeva d) Ravikirti

10. Which Governor General brought Civil Services into existence in India?

a) Lord Cornwallis b) Lord Wellesley
c) Lord William Benting d) Lord Sailles Bury

11. In 1922, who organized the Swaraj party along with CR Das?

a) Rabindra Nath Tagore b) Motilal Nehru
c) Subash Chandra Bose d) Madan Mohan Malaviya

12. Whom did Ahmed Shah Abdali defeat in 1752 to occupy Lahore?

a) Muin ul Mulk b) Safdar Jung
c) Shah Nawaz Khan d) Yahiya Khan

13. A purely Indian concern founded in 1895 was:

a) Bank of Punjab b) Punjab Insurance Company
c) Punjab National Bank d) People's Bank

14. Amrita Pritam received many awards for her writings. Identify the award she did not receive:

a) Sahitya Academy Award b) Padma Shri
c) Booker Prize for Literature d) Jnanpith Award

15. At which place is Baba Banda Singh Bahadur War Memorial located?

a) Chappar Chiri b) Sarhind
c) Kartarpur d) Samana

16. Who among the following wrote "Pagri Sambhal Jatta"

a) Ajit Singh b) Bhagat Singh
c) Banke Dayal d) None of the above

17. Which of the following is a world famous beach for the 'Arribada' (arrival) of Olive Ridley Turtles in India?

a) Gahirmatha, Orissa
b) Marina Beach, Chennai
c) Gulf of Kutch, Gujarat
d) Kovalam Beach, Kerala

18. Which of the following has been linked to excessive UV-B exposure?

a) Skin cancer
b) Ricketts
c) Multiple sclerosis
d) All of the above

19. Common indicator organism of water pollution is:

a) Entamoeba histolytica
b) Escherichia coli
c) Eichhornia crassipes
d) Lemna paucicostata

20. *Trichoderma harzianum* has proved a useful microorganism for:

a) Reclamation of wastelands
b) Bioremediation of contaminated soils
c) Biological control of soil-borne plant pathogens
d) Gene transfer in higher plants

21. What is the name of a species that is highly connected to the entire food web and whose loss may result in ecosystem collapse?

a) Limiting species
b) Keystone species
c) Vital species
d) Top species

22. The metal which is generally absorbed by plants along with Zn and causes "Ouch Ouch" disease in human beings is

a) Pb
b) Cd
c) Hg
d) Cr

23. Silviculture is the management of_____.

a) Rivers
b) Lakes
c) Hills
d) Forests

24. Where is water stored in baobab tree?

a) Fruit
b) Trunk having a spongy layer
c) Leaves
d) Flowers

25. "*Bermuda grass allergy*" is a type of

a) Air-borne allergy
b) Contact allergy
c) Hydro-borne allergy
d) Soil-borne allergy

26. Consider the following Statements:
Statement I : Graphene is a single thin layer 2D film
Statement II: Carbon nanotube is a thin film rolled like a 3D tube or cylinder

Which of the above statement(s) is/are correct?

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

27. What is the name of the element with atomic number 105?

a) Dubnium
b) Holmium
c) Kwichatovium
d) Nobelium

28. The molecular mass of a gas is :

a) Twice of its vapour pressure
b) Equal to its vapour pressure
c) Half of its vapour pressure
d) Not associated with its vapour pressure

29. The orbital angular momentum of a P-electron is given as –

a) $\frac{h}{\sqrt{2\pi}}$
b) $\sqrt{3}\frac{h}{2\pi}$
c) $\sqrt{\frac{3h}{2\pi}}$
d) $\sqrt{6}\frac{h}{2\pi}$

30. The chemical composition of 'slag' formed during the smelting process in the extraction of copper is –

a) CuO + FeS
b) $FeSiO_3$
c) $CuFcS_2$
d) Cu_2S + FeO

31. Vitamin B_{12} contains –

a) Co
b) Mn
c) Mg
d) Fe

32. Consider the following statements regarding 'Pralay' missile recently test fired by the Defence Research and Development Organisation (DRDO):

1) It is India's first surface-to-surface conventional quasi-ballistic missile.
2) The missile was tested from the Dr A.P.J. Abdul Kalam Island off the coast of Odisha.
3) It is a 150-500 km short-range and is a surface-to-surface missile with a payload capacity of 100-500 kg.

Which of the statements given above is/are correct?

a) 1 and 3 only
b) 1 and 2 only
c) 2 and 3 only
d) 1,2 and 3

33. The relation between algae and fungi in lichen is

a) Symbiosis
b) Parasitism
c) Commenalism
d) Protocooperation

34. Glycolysis process occurs in which part of the cell?

a) Cytoplasm
b) Nucleus
c) Mitochondria
d) Chloroplast

35. Dark green colouration in leaves is caused due to deficiency of which mineral?

a) Calcium
b) Phosphorus
c) Nitrogen
d) Potassium

36. Which is the major cause of nutritional blindness in children usually between 1 - 3 years of age?

a) Scurvy
b) Keratomalacia
c) Aneamia
d) Dandruff

37. Leading cause of Diarrheal disease

a) Enterotoxigenic *Escherichia coli*
b) *Salmonella*(non-typhoid)
c) Rotavirus
d) Campylobacter jejuni

38. Which of the following telescope was recently launched by National Aeronautics and Space Administration (NASA) in collaboration with the European Space Agency (ESA), and the Canadian Space Agency?

a) Hubble Space Telescope
b) Fermi Gamma-ray Space Telescope
c) James Webb Space Telescope
d) Near Earth Object Surveillance Satellite

39. The first recombinant antigen vaccine approved for human use is

a) Hepatitis B vaccine
b) Hib vaccine
c) Var vaccine
d) DPT vaccine

40. For the very first time, this virus was synthesized in the form of non-living crystals

a) Bacteriophage
b) Tobacco mosaic virus
c) Flu Virus
d) Pox virus

41. Which of the following statement (s) about the Kyoto Protocol is/are correct?

1) Kyoto Protocol is an international agreement linked to the UNFCCC (United Nations Framework Convention on Climate Change) which commits its parties by setting internationally binding emission reduction targets.
2) It was adopted in 1997 and came into force in 2005.

3) It recognized that both developed and developing countries are equally responsible for the current level of GHG emissions.
4) The detailed rules for the implementation of the Protocol were adopted at COP-7 in Tokyo.

Select the correct answer from the codes given below.

a) 1 and 2 b) 2 and 3 c) 1 and 4 d) 2 and 4

42. Which Five year plan recommended the land ceiling limit to three family holdings?

a) Second Five Year Plan
b) Third Five Year Plan
c) Fourth Five Year Plan
d) Fifth Five Year Plan

43. What is the objective of SAMVEDNA Scheme?

a) To provide support to single women
b) To provide electronic access to farmers in availing credit
c) To support children affected during covid-19
d) To support elderly affected during covid-19

44. 'Meerut Conspiracy case' is associated with which of the following?

a) Industrial disputes
b) Trade Union Act
c) Bonded Labor
d) None of above

45. Which among the following is not an Indirect Tax?

a) Corporation Tax
b) Service Tax
c) Custom Duty
d) Excise Duty

46. SANKALP has been launched:

a) To provide better healthcare for rural poor
b) To provide better healthcare for urban poor
c) To provide quality education
d) To provide market relevant training to youths

47. The increase in oil seeds production was due to:

a) White revolution
b) Yellow revolution
c) Green revolution
d) Brown revolution

48. The consumption of Chemical fertilizers was an important factor in the success of Green Revolution in the late 1960's. Consider the following statements.
1) Chemical fertilizers dissolve in water and are immediately available to plants.
2) Chemical fertilizers can kill bacteria and other micro-organisms in soil.
3) The use of Chemical fertilizers caused the rise in cost of production in the long term.
Select the correct ones.

a) 1 and 2
b) 2 and 3
c) 1 and 3
d) All are correct

49. The present base year of Wholesale Price Index is -

a) 2000-01 b) 2002-03 c) 2011-12 d) 2005-06

50. In case of India we have unemployment in rural and urban areas. Consider the following statements about types of unemployment in India.

1) Disguised unemployment happens when people are not able to find jobs during some months of the year due to agricultural patterns.
2) Educated unemployment is a result of improper management of Human resources.
3) In case of India, statistically, the unemployment rate is low.

Select the correct statements using codes below.

a) 1 and 2 b) 1 and 3
c) 2 and 3 d) All of the above

51. By which bill budget does the government make arrangement for the collection of revenues for a year?

a) A Supplementary Budget b) Finance Bill
c) Fiscal Budget d) Economic Bill

52. In which year, the United Nations adopted the Universal Declaration of Human Rights?

a) 1945 b) 1948 c) 1966 d) 1981

53. Match the following International Organizations and their headquarters

1) ILO	A. Washington D.C.
2) IMF	B. Geneva
3) UNESCO	C. New York City
4) UNICEF	D. Paris

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

54. The New Development Bank (NDB) is a multilateral development institution established by the BRICS headquartered in:

a) Shanghai b) St. Petersburg
c) New Delhi d) Sao Paulo

55. The term 'recess' in parliamentary proceedings is referred to:

a) The time between adjournments
b) The time between dissolution of parliament and re-election
c) The Zero Hour
d) The time between prorogation of parliament and its re-assembly in a new session

56. With reference to the electronic voting machines, consider the following statements:
1) The Voter Verifiable Paper Audit Trail System (VVPAT) is a standard feature of all electronic voting machines (EVM)
2) Standard features of electronic voting machines does not include functions of VVPAT system.

Which of the statements given above is/are correct?

a) 1 only
b) 2 only
c) Both I and 2
d) Neither 1 nor 2

57. Based on the 2011 census, which among the following states has the highest population?

a) Madhya Pradesh
b) Maharashtra
c) Rajasthan
d) Gujarat

58. With reference to the evolution of Panchayati Raj System, consider the following statement:
1) The terms of reference for G. V. K. Rao Committee was to review the existing administrative arrangements for rural development.
2) L. M. Singhvi Committee was set up to prepare a concept paper on the revitalization of the Panchayti Raj Institutions.

Which of the statements given above is/are correct?

a) 1 only
b) 2 only
c) Both I and 2
d) Neither 1 nor 2

59. The three states which are exempted from the purview of the Constitution (Seventy – third Amendment) Act are:

a) Manipur, Tripura and Assam
b) Nagaland, Meghalaya and Mizoram
c) Arunachal Pradesh, Sikkim and Goa
d) Sikkim, Tripura and Assam

60. According to Article 170, the maximum members of the State Legislative Assemblies which are directly elected could be:

a) 403
b) 485
c) 484
d) 500

61. Who among the following strongly said that "Man is a Political Animal"?

a) Socrates
b) Plato
c) Aristotle
d) None of the Above.

62. The Preamble of the Constitution of India enshrines the ideals of liberty, equality and fraternity – ideals mainly inspired by the:

a) Russian Revolution
b) Irish Revolution
c) French Revolution
d) Cultural Revolution

63. Name the country that has issued Golden Visa to all doctors residing in their country.

a) Oman b) UAE c) Saudi Arabia d) Egypt.

64. The performing art 'Nata Sankirtana' is a festival of

a) Mizoram b) Manipur c) Assam d) Tripura.

65. Consider the following statements:

1) Paperless Union budget has been introduced in India in 2021 to avoid the printing of the budget documents amid the COVID pandemic.
2) The convention of presenting budget in a briefcase was discontinued in 2021 by making budget paperless.

Which of the above statements are correct?

a) 1 only b) 2 only
c) Both 1 and 2 d) Neither 1 nor 2

66. Consider the following statements:

1) Aharbal falls, a hill station in the southwestern part of Kashmir Valley of Jammu and Kashmir is considered as the "Niagara Falls" of Kashmir.
2) Aharbal falls is located in Baramulla District of Kashmir Valley.

Which of the above statements are correct?

a) 1 only b) 2 only
c) Both 1 and 2 d) Neither 1 nor 2

67. Visakhapatnam based state-run defence shipbuilder, Hindustan Shipyard Limited (HSL) built INS Sindhuvir for which of the following countries?

a) Singapore b) Myanmar c) Sri Lanka d) Maldives

68. -------- is a NASA's spacecraft on a twelve-year journey to visit a main belt asteroid as well as seven Jupiter Trojans that share Jupiter's orbit around the Sun.

a) Orion b) Apollo c) Voyager d) Lucy

69. Which of the following schemes aims to provide social security to persons above 60 years of age to protect them against a future fall in their interest income due to uncertain market conditions?

a) Pradhan Mantri Ujjwala Yojana
b) Pradhan Mantri Vaya Vandana Yojana
c) Pradhan Mantri Jeevan Jyoti Bima Yojana
d) Pradhan Mantri Jan-Dhan Yojana

70. Consider the following statements:

1) The 20th edition of the World Sustainable Development Summit was organized by 'The Energy and Resources Institute' (TERI) in 2022.
2) The theme of the Summit is 'Towards a Resilient Planet: Ensuring a Sustainable and Equitable Future'.

Which of the above statements are correct?

a) 1 only
b) 2 only
c) Both 1 and 2
d) Neither 1 nor 2

71. Consider the following statements:

1) National Science Day is celebrated in India on 28th February in memory of Sir CV Raman.
2) Sir CV Raman was awarded Nobel Prize in 1930 for his discovery of the Raman Effect.
3) The theme of the National Science Day of 2022 is "Integrated approach in science and technology for a sustainable future".

Which of the above statement/s is correct?

a) 1 and 2 only
b) 2 and 3 only
c) 1 and 3 only
d) 1, 2 and 3

72. Which of the following books has been written by Shri Mohammad Hamid Ansari, former Vice President of India in 2021?

a) Hop On: My Adventures on Boats, Trains and Planes
b) Undaunted: Saving the Idea of India
c) By Many a Happy Accident: Recollections of a Life
d) The Commonwealth of Cricket: A Lifelong Love Affair with the Most Subtle and Sophisticated Game Known to Humankind

73. Who became the first Indian woman cricketer to complete 10,000 international runs in all the cricket formats?

a) Smriti Mandhana
b) Mithali Raj
c) Harmanpreet Kaur
d) Shikha Pandey

74. Which among the following has been recently declared as the fourth Tiger reserve by the National Tiger Conservation Authority in the state of Chhattisgarh?

a) Indravati
b) Sitanadi
c) Achanakmar
d) Guru Ghasidas National Park andTamor Pingla Wildlife Sanctuary

75. Which of the following states has declared a complete ban on the controversial herbicide, Glyphosate in May, 2021?

a) Andhra Pradesh
b) Telangana
c) Kerala
d) Punjab

76. Which among the following countries has signed pact with India for the purchase of BrahMos Supersonic Cruise missile system?

a) Philippines
b) Indonesia
c) Malaysia
d) Brazil

77. Who is the current Secretary General of United Nations Organisation (UNO)?

a) Antonio Guterres
b) Kurt Waldheim
c) Boutros Boutros-Ghali
d) Ban Ki Moon

78. Which of the following governments has recently issued a coin in the name of Mahatma Gandhi to commemorate his life and legacy?

a) United States of America
b) Australia
c) Ukraine
d) United Kingdom

79. India has been re-elected to the United Nations Human Rights Council (UNHRC) for the sixth term from -

a) January 2021 to December 2023
b) January 2022 to December 2024
c) January 2023 to December 2024
d) January 2024 to December 2026

80. Consider the following statements:

1) India will host the G20 summit in 2023 for the first time.
2) Piyush Goyal, Union Minister of Commerce and Industry has been appointed as India's Sherpa for the G20 summit in 2023.
3) The meet will be held in Hyderabad, Telangana.

Which of the above statement/s is/are correct?

a) 1 only
b) 1, 2 and 3
c) 2 and 3 only
d) 1 and 2 only

Section-II

81. Monika and Seema both start from a point towards North. Monika turns to left after walking 10 km. Seema turns to right after walking the same distance. Monika waits for some time and then walks another 5 km, whereas Seema walks only 3 km. They both then return to their respective South and walk 15 km forward. How far is Monika from Seema?

a) 15 km
b) 10 km
c) 8 km
d) 12 km

82. Ratio of Sonu's age to Manu's age is equal to 4:3. If Sonu will be 26 years old after 6 years, the present age of Manu is

a) 11 b) 15 c) 14 d) 17

83. The data given in the following table summarizes the monthly budget of an average household.

CATEGORY	AMOUNT
FOOD	4000
CLOTHING	1200
RENT	2000
SAVINGS	1500
OTHERS	1800

The approximate percentage of the monthly budget not spent on saving is

a) 10% b) 14% c) 81% d) 86%

84. Rahul, Prem, Shyam, Geet and Rinku are five friends among which Shyam is the tallest. Rahul is shorter than Prem but taller than Rinku. Geet is little shorter than Prem but little taller than Rahul. Who is taller than Rinku but shorter than Geet?

a) Rahul b) Rinku c) Prem d) Geet

85. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was:

a) 2500 b) 2700
c) 2900 d) 3100

86. A train of length 150 m, moving at a speed of 90 km/hr can cross a 200 metre bridge in

a) 8sec b) 14sec c) 6sec d) 15sec

87. A number consists of two digits; the sum of the digits is 9. If 45 is subtracted from the number its digits are interchanged. What is the number?

a) 63 b) 72 c) 81 d) 90

88. A student has 60% chance of passing in English and 54% chance of passing in both English and Mathematics. What is the percentage probability that he will fail in Mathematics?

a) 12 b) 36 c) 4 d) 10

89. Select the one which is different from the other three responses.

a) TGSH b) CXDW c) AZBY d) EVFU

90. Find the number which is different from others in the following group:
8314, 2709, 1315, 2518

a) 1315 b) 2518 c) 8314 d) 2709

91. How many numbers from 1 to 100 are there, each of which is not only exactly divisible by 4 but also has 4 as a digit?

a) 19 b) 12 c) 10 d) 7

92. If it was Tuesday on 3rd January, 2006. What was the day on 3rd January, 2010?

a) Monday b) Sunday c) Wednesday d) Tuesday

93. 75 people ran a race, Raghu stood 13th from the first and Vipin stood 25th from the last. How many stood between Raghu and Vipin?

a) 34 b) 35 c) 36 d) 37

94. If South- East becomes North, North- East becomes West and so on. What will West become?

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

95. There are deers and peacocks in a zoo. By counting heads they are 80 and the number of their legs is 200. How many peacocks are there?

a) 30 b) 50 c) 20 d) 60

96. If 5 – 5 = 24 and 7 – 7 = 48 then find the value of 10 – 10 = ?

a) 56 b) 91 c) 99 d) 80

97. Prabhat gave 30% of his money to Tushar. Tushar in turn gave 2/3rd of what he receives to Jyoti. Jyoti gave Rs 100 from the money he receives to a taxi driver, then she is left with Rs 300. What was the money with Prabhat initially?

a) Rs. 2000 b) Rs. 2200 c) Rs. 2800 d) Rs. 1800

Directions (Question Nos. 98 to 102): Read the following information carefully to answer the questions:

I. 8 Kids Neelaksh, Asmita, Ishita, Ponty, Tanu, Dodo, Navya and Rudraksh are sitting for dinner on a round table facing centre.
II. Ponty is sitting between Neelaksh and Navya.
III. Rudraksh and Dodo are sitting next to each other.
IV. Exactly one person is sitting between Tanu and Asmita.
V. Asmita is to the right of Dodo.
VI. Neelaksh is not sitting adjacent to Dodo.

98. What is the position of Ishita with respect to Navya?

a) Fourth to the right
b) Second to the right
c) Second to the left
d) Third to the left

99. Who is sitting between Neelaksh and Ishita?

a) Ponty
b) Navya
c) Rudraksh
d) Tanu

100. In which of the following pairs, second person is sitting to the right of first person.

a) Ponty, Neelaksh
b) Dodo, Rudraksh
c) Ishita, Asmita
d) Navya, Rudraksh

101. Which of the following is correct?

a) Dodo is third to the right of Ponty
b) Asmita is second to the right of Tanu
c) Ishita is third to the right of Dodo
d) Neelaksh is second to the left of Tanu

102. Which of the following pairs is sitting next to each other?

a) Dodo, Ishita
b) Navya, Rudraksh
c) Asmita, Tanu
d) Ishita, Neelaksh

103. A is B's sister. C is B's mother. D is C's father. E is D's spouse. Then, how is E related to B?

a) Granddaughter
b) GrandFather
c) Grandson
d) GrandMother

104. A man introduced a woman as the spouse of the only son of his grandfather's only son. How is the woman related to the man?

a) Wife
b) Cousin
c) Sister in law
d) Sister

105. Looking at a portrait of a woman, Ramesh said, "Her mother is the wife of my father's son. Brothers and sisters I have none." At whose portrait was Ramesh looking?

a) His aunt
b) His Daughter
c) His neice
d) His cousin

106. What will come next in the series: abc, dfh, ilo, ….?

a) pqr
b) ptx
c) prt
d) psv

107. What is mirror image of RAJASTHAN?

a) ИATHƧAᒐ AЯ
b) ИAHTAƧᒐ AЯ
c) ИATAHƧᒐ AЯ
d) ИAHTƧAᒐ AЯ

108. If 65% of a number is equal to 13/5 of another number, what is the ratio of first number to the second number?

a) 5 : 13 b) 4 : 5 c) 5 : 4 d) 4 : 1

109. If Rakesh distributes chocolates in the ratio of 1/3 : 1/7 : 1/2 : 1/5 between his four friends A, B, C and D, then find the minimum total number of chocolates Rakesh should have?

a) 210 b) 247 c) 420 d) 105

110. A can do a piece of work in 32 days. B can do the same piece of work in 20 days. B started the work alone and A joined him later. The work was completed in 15 days. How many days more B worked than A.

a) 5 b) 10 c) 7 d) 8

111. The percentage profit earned by selling an article for Rs. 5760 is equal to the percentage loss incurred by selling the same article for Rs. 3840. At what price (in Rs.) should the article be sold to make 40% profit?

a) 5760 b) 6000 c) 6720 d) 6260

112. There are two big vessels A and B containing milk. If 10 litres of milk is poured from A to B, then the milk in both vessels is same. If 20 litres of milk is poured from B to A, then the milk in A is double of the milk in B. The milk in vessel A in litres is:

a) 100 b) 80 c) 20 d) 200

Directions (Question Nos. 113 to 116)*:* The following table provides the details about the number of students in 5 different sports over the years.

Years	Sport				
	Cricket	Football	Basketball	Hockey	Kabaddi
2017	66	144	145	128	111
2018	121	56	100	109	149
2019	79	104	116	99	78
2020	60	57	137	150	92
2021	132	52	74	116	82

113. For which sport, total number of participants in all 5 years is second highest?

a) Kabaddi b) Football c) Hockey d) Basketball

114. What is the approximate percentage of students who participated in Hockey in 2018 compared to the students participated in Cricket in the same year?

a) 111% b) 90%

c) 43% d) None of the above.

115. In which year was the percentage of students participating in Basketball the maximum?

a) 2017 b) 2018 c) 2019 d) 2020

116. What is the approximate percentage change in number of students participated in sports except Kabaddi in 2017 compared to that in 2020?

a) 21.67% b) 22.89% c) 16.35% d) 41.32%

117. Sunil and Barry start from the same point and in the same direction at 8:00 am to walk around a rectangular field 500m x 400m. Sunil and Barry walk at the rate of 4km/h and 3km/h respectively. How many times shall they cross each other, if they continue to walk till 01: 30 pm?

a) Never b) Once c) Twice d) Thrice

118. There are six bells in a temple which commence tolling together and toll at an interval of 2, 4, 6, 8, 10 and 12 seconds respectively. In one hour how many times do they ring together?

a) 50 b) 30 c) 31 d) 15

119. Three partners A, B and C distribute the earnings they got after doing a particular assignment. They got an amount of Rs.1360/-. A gets $2/3^{rd}$ of B's share and B gets $1/4^{th}$ of C's share. What is A's share?

a) 224 b) 160 c) 254 d) 248

120. If the English letters A to Z are written in a reverse order then what is the fourth letter to the right of 12th letter from the left?

a) J b) K

c) R d) L

*****

Rough Work

PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (Feb-2022) for Recruitment to the post of Analyst in the Department of Home Affairs & Justice, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 120
Time Allowed: 2 Hours

Candidate's Name _____

Father's Name _____

Date of Birth ☐☐ ☐☐ ☐☐☐☐
DD MM YYYY

OMR Response Sheet No. _____

Roll No. _____

Candidate's Signature **(Please sign in the box)**

Question Booklet Set

B

Booklet Series No.

INSTRUCTIONS

1. The candidate shall NOT open this booklet till the time told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL letters. The candidate may also fill the relevant boxes out of 1 to 9 of the Optical Mark Reader (OMR) response sheet, supplied separately
2. Use only blue or black **ball point pen** to fill the relevant columns on this page as well as in OMR sheet. Use of Ink pen or any other pen is not allowed.
3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible or incomplete.
4. Each candidate is required to attempt 120 questions in 120 minutes, except for orthopedically/visually impaired candidates, who would be given 40 extra minutes, for marking correct responses on the OMR sheet.
5. The question paper booklet has 19 pages.
6. The candidates, when allowed to open the question paper booklet, must first check the entire booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should IMMEDIATELY bring this fact to the notice of the Invigilation Staff and obtain a new booklet of the same series as given earlier.
7. The serial number of the new Question booklet if issued for some reason should be entered in the relevant column of the OMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of Question booklet.
8. The paper consists of total 480 Marks. Each question shall carry 4 marks. There are four options for each question and the candidate has to mark the MOST APPROPRIATE answer on the OMR response sheet.
9. There is negative marking (one mark for each question) for answers wrongly answered by the candidate.
10. Use of Electronic/Manual Calculator is prohibited.
11. The candidate **MUST READ INSTRUCTIONS BEHIND THE OMR SHEET** before answering the Questions and check that two carbon copies attached to the OMR sheet are intact.

Section-I

1. A purely Indian concern founded in 1895 was:

a) Bank of Punjab
b) Punjab Insurance Company
c) Punjab National Bank
d) People's Bank

2. Leading cause of Diarrheal disease

a) Enterotoxigenic *Escherichia coli*
b) *Salmonella*(non-typhoid)
c) Rotavirus
d) Campylobacter jejuni

3. By which bill budget does the government make arrangement for the collection of revenues for a year?

a) A Supplementary Budget
b) Finance Bill
c) Fiscal Budget
d) Economic Bill

4. -------- is a NASA's spacecraft on a twelve-year journey to visit a main belt asteroid as well as seven Jupiter Trojans that share Jupiter's orbit around the Sun.

a) Orion
b) Apollo
c) Voyager
d) Lucy

5. Which of the following schemes aims to provide social security to persons above 60 years of age to protect them against a future fall in their interest income due to uncertain market conditions?

a) Pradhan Mantri Ujjwala Yojana
b) Pradhan Mantri Vaya Vandana Yojana
c) Pradhan Mantri Jeevan Jyoti Bima Yojana
d) Pradhan Mantri Jan-Dhan Yojana

6. The present base year of Wholesale Price Index is -

a) 2000-01
b) 2002-03
c) 2011-12
d) 2005-06

7. The term 'recess' in parliamentary proceedings is referred to:

a) The time between adjournments
b) The time between dissolution of parliament and re-election
c) The Zero Hour
d) The time between prorogation of parliament and its re-assembly in a new session

8. Which among the following is not an Indirect Tax?

a) Corporation Tax
b) Service Tax
c) Custom Duty
d) Excise Duty

9. The famous drama, 'Mudrarakshasa' was written by

a) Malayakethu b) Visakhadatta c) Kautilya d) Chanakya

10. Which among the following has been recently declared as the fourth Tiger reserve by the National Tiger Conservation Authority in the state of Chhattisgarh?

a) Indravati
b) Sitanadi
c) Achanakmar
d) Guru Ghasidas National Park andTamor Pingla Wildlife Sanctuary

11. Match the following International Organizations and their headquarters

1) ILO	A. Washington D.C.
2) IMF	B. Geneva
3) UNESCO	C. New York City
4) UNICEF	D. Paris

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

12. The New Development Bank (NDB) is a multilateral development institution established by the BRICS headquartered in:

a) Shanghai b) St. Petersburg
c) New Delhi d) Sao Paulo

13. 'Meerut Conspiracy case' is associated with which of the following?

a) Industrial disputes b) Trade Union Act
c) Bonded Labor d) None of above

14. Which of the following governments has recently issued a coin in the name of Mahatma Gandhi to commemorate his life and legacy?

a) United States of America b) Australia
c) Ukraine d) United Kingdom

15. In which year, the United Nations adopted the Universal Declaration of Human Rights?

a) 1945 b) 1948 c) 1966 d) 1981

16. Which of the following states has declared a complete ban on the controversial herbicide, Glyphosate in May, 2021?

a) Andhra Pradesh b) Telangana
c) Kerala d) Punjab

17. Consider the following statements:

1) National Science Day is celebrated in India on 28th February in memory of Sir CV Raman.
2) Sir CV Raman was awarded Nobel Prize in 1930 for his discovery of the Raman Effect.
3) The theme of the National Science Day of 2022 is "Integrated approach in science and technology for a sustainable future".

Which of the above statement/s is correct?

a) 1 and 2 only b) 2 and 3 only c) 1 and 3 only d) 1, 2 and 3

18. "*Bermuda grass allergy*" is a type of

a) Air-borne allergy
b) Contact allergy
c) Hydro-borne allergy
d) Soil-borne allergy

19. What is the name of a species that is highly connected to the entire food web and whose loss may result in ecosystem collapse?

a) Limiting species
b) Keystone species
c) Vital species
d) Top species

20. Who amongst the following introduced railways for the first time in India?

a) Lord Wellesley
b) Lord Hastings
c) Lord Dalhousie
d) Lord Ripon

21. In case of India we have unemployment in rural and urban areas. Consider the following statements about types of unemployment in India.
1) Disguised unemployment happens when people are not able to find jobs during some months of the year due to agricultural patterns.
2) Educated unemployment is a result of improper management of Human resources.
3) In case of India, statistically, the unemployment rate is low.

Select the correct statements using codes below.

a) 1 and 2
b) 1 and 3
c) 2 and 3
d) All of the above

22. For the very first time, this virus was synthesized in the form of non-living crystals

a) Bacteriophage
b) Tobacco mosaic virus
c) Flu Virus
d) Pox virus

23. The increase in oil seeds production was due to:

a) White revolution
b) Yellow revolution
c) Green revolution
d) Brown revolution

24. With reference to the evolution of Panchayati Raj System, consider the following statement:

1) The terms of reference for G. V. K. Rao Committee was to review the existing administrative arrangements for rural development.
2) L. M. Singhvi Committee was set up to prepare a concept paper on the revitalization of the Panchayti Raj Institutions.

Which of the statements given above is/are correct?

a) 1 only
b) 2 only
c) Both I and 2
d) Neither 1 nor 2

25. According to Article 170, the maximum members of the State Legislative Assemblies which are directly elected could be:

a) 403
b) 485
c) 484
d) 500

26. At which place is Baba Banda Singh Bahadur War Memorial located?

a) Chappar Chiri
b) Sarhind
c) Kartarpur
d) Samana

27. Which of the following statement (s) about the Kyoto Protocol is/are correct?

1) Kyoto Protocol is an international agreement linked to the UNFCCC (United Nations Framework Convention on Climate Change) which commits its parties by setting internationally binding emission reduction targets.
2) It was adopted in 1997 and came into force in 2005.
3) It recognized that both developed and developing countries are equally responsible for the current level of GHG emissions.
4) The detailed rules for the implementation of the Protocol were adopted at COP-7 in Tokyo.

Select the correct answer from the codes given below.

a) 1 and 2
b) 2 and 3
c) 1 and 4
d) 2 and 4

28. Who authored the book *Poverty and Un-British Rule in India*?

a) R.C.Dutt
b) Dadabhai Naoroji
c) Rajani Palm Dutt
d) Bipan Chandra

29. Consider the following Statements:

Statement I : Graphene is a single thin layer 2D film

Statement II: Carbon nanotube is a thin film rolled like a 3D tube or cylinder

Which of the above statement(s) is/are correct?

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

30. The Preamble of the Constitution of India enshrines the ideals of liberty, equality and fraternity – ideals mainly inspired by the:

a) Russian Revolution
b) Irish Revolution
c) French Revolution
d) Cultural Revolution

31. Dark green colouration in leaves is caused due to deficiency of which mineral?

a) Calcium
b) Phosphorus
c) Nitrogen
d) Potassium

32. SANKALP has been launched:

a) To provide better healthcare for rural poor
b) To provide better healthcare for urban poor
c) To provide quality education
d) To provide market relevant training to youths

33. Consider the following statements:

1) The 20th edition of the World Sustainable Development Summit was organized by 'The Energy and Resources Institute' (TERI) in 2022.
2) The theme of the Summit is 'Towards a Resilient Planet: Ensuring a Sustainable and Equitable Future'.

Which of the above statements are correct?

a) 1 only
b) 2 only
c) Both 1 and 2
d) Neither 1 nor 2

34. India has been re-elected to the United Nations Human Rights Council (UNHRC) for the sixth term from -

a) January 2021 to December 2023
b) January 2022 to December 2024
c) January 2023 to December 2024
d) January 2024 to December 2026

35. The chemical composition of 'slag' formed during the smelting process in the extraction of copper is –

a) CuO + FeS
b) $FeSiO_3$
c) $CuFcS_2$
d) $Cu_2S + FeO$

36. Who became the first Indian woman cricketer to complete 10,000 international runs in all the cricket formats?

a) Smriti Mandhana
b) Mithali Raj
c) Harmanpreet Kaur
d) Shikha Pandey

37. Silviculture is the management of_____.

a) Rivers
b) Lakes
c) Hills
d) Forests

38. Where is water stored in baobab tree?

a) Fruit
b) Trunk having a spongy layer
c) Leaves
d) Flowers

39. *Trichoderma harzianum* has proved a useful microorganism for:

a) Reclamation of wastelands
b) Bioremediation of contaminated soils
c) Biological control of soil-borne plant pathogens
d) Gene transfer in higher plants

40. The orbital angular momentum of a P-electron is given as –

a) $\frac{h}{\sqrt{2\pi}}$
b) $\sqrt{3}\frac{h}{2\pi}$
c) $\sqrt{\frac{3h}{2\pi}}$
d) $\sqrt{6}\frac{h}{2\pi}$

41. Which is the major cause of nutritional blindness in children usually between 1 - 3 years of age?

a) Scurvy
b) Keratomalacia
c) Aneamia
d) Dandruff

42. The performing art 'Nata Sankirtana' is a festival of

a) Mizoram
b) Manipur
c) Assam
d) Tripura.

43. The Allahabad pillar inscription was composed by

a) Meghavarma
b) Harisena
c) Rudradeva
d) Ravikirti

44. Who is the current Secretary General of United Nations Organisation (UNO)?

a) Antonio Guterres
b) Kurt Waldheim
c) Boutros Boutros-Ghali
d) Ban Ki Moon

45. Amrita Pritam received many awards for her writings. Identify the award she did not receive:

a) Sahitya Academy Award
b) Padma Shri
c) Booker Prize for Literature
d) Jnanpith Award

46. Which among the following countries has signed pact with India for the purchase of BrahMos Supersonic Cruise missile system?

a) Philippines
b) Indonesia
c) Malaysia
d) Brazil

47. In 1922, who organized the Swaraj party along with CR Das?

a) Rabindra Nath Tagore
b) Motilal Nehru
c) Subash Chandra Bose
d) Madan Mohan Malaviya

48. With reference to Raja Ram Mohan Roy, which of the following statements is/are correct?

1) He believed that English education would open the gates of the liberal thought of the English in India.
2) He sponsored the opening of the Hindu College and fought for the freedom of press
3) He was the first man to enunciate the rights of man
4) He cannot be called as prophet of Humanity

a) 1 and 2
b) 1, 2 and 3
c) 3 and 4
d) 1 and 3

49. What is the name of the element with atomic number 105?

a) Dubnium
b) Holmium
c) Kwichatovium
d) Nobelium

50. Glycolysis process occurs in which part of the cell?

a) Cytoplasm
b) Nucleus
c) Mitochondria
d) Chloroplast

51. Consider the following statements:
1) Paperless Union budget has been introduced in India in 2021 to avoid the printing of the budget documents amid the COVID pandemic.
2) The convention of presenting budget in a briefcase was discontinued in 2021 by making budget paperless.

Which of the above statements are correct?

a) 1 only
b) 2 only
c) Both 1 and 2
d) Neither 1 nor 2

52. Which Five year plan recommended the land ceiling limit to three family holdings?

a) Second Five Year Plan
b) Third Five Year Plan
c) Fourth Five Year Plan
d) Fifth Five Year Plan

53. Which of the following is a world famous beach for the 'Arribada' (arrival) of Olive Ridley Turtles in India?

a) Gahirmatha, Orissa
b) Marina Beach, Chennai
c) Gulf of Kutch, Gujarat
d) Kovalam Beach, Kerala

54. Vitamin B_{12} contains –

a) Co
b) Mn
c) Mg
d) Fe

55. Which of the following telescope was recently launched by National Aeronautics and Space Administration (NASA) in collaboration with the European Space Agency (ESA), and the Canadian Space Agency?

a) Hubble Space Telescope
b) Fermi Gamma-ray Space Telescope
c) James Webb Space Telescope
d) Near Earth Object Surveillance Satellite

56. The first recombinant antigen vaccine approved for human use is

a) Hepatitis B vaccine
b) Hib vaccine
c) Var vaccine
d) DPT vaccine

57. Which one of these animals was not represented on the seals and terracotta art of Harappan culture?

a) Unicorn
b) Tiger
c) Cow
d) Rhinoceros

58. The molecular mass of a gas is:

a) Twice of its vapour pressure
b) Equal to its vapour pressure
c) Half of its vapour pressure
d) Not associated with its vapour pressure

59. Visakhapatnam based state-run defence shipbuilder, Hindustan Shipyard Limited (HSL) built INS Sindhuvir for which of the following countries?

a) Singapore
b) Myanmar
c) Sri Lanka
d) Maldives

60. Name the country that has issued Golden Visa to all doctors residing in their country.

a) Oman
b) UAE
c) Saudi Arabia
d) Egypt.

61. The consumption of Chemical fertilizers was an important factor in the success of Green Revolution in the late 1960's. Consider the following statements.

1) Chemical fertilizers dissolve in water and are immediately available to plants.
2) Chemical fertilizers can kill bacteria and other micro-organisms in soil.
3) The use of Chemical fertilizers caused the rise in cost of production in the long term.
Select the correct ones.

a) 1 and 2
b) 2 and 3
c) 1 and 3
d) All are correct

62. With reference to the electronic voting machines, consider the following statements:

1) The Voter Verifiable Paper Audit Trail System (VVPAT) is a standard feature of all electronic voting machines (EVM)
2) Standard features of electronic voting machines does not include functions of VVPAT system.

Which of the statements given above is/are correct?

a) 1 only
b) 2 only
c) Both I and 2
d) Neither 1 nor 2

63. The relation between algae and fungi in lichen is

a) Symbiosis
b) Parasitism
c) Commenalism
d) Protocooperation

64. Common indicator organism of water pollution is:

a) Entamoeba histolytica
b) Escherichia coli
c) Eichhornia crassipes
d) Lemna paucicostata

65. Who among the following strongly said that "Man is a Political Animal"?

a) Socrates
b) Plato
c) Aristotle
d) None of the Above.

66. The term *Mahalwari* System is defined as

a) It comes from the word Mahalla
b) It stood for Dual Government
c) The system derives its name from the word *mahal* which means a estate or a village
d) Revenue settlement with a zamindar of a village

67. Whom did Ahmed Shah Abdali defeat in 1752 to occupy Lahore?

a) Muin ul Mulk
b) Safdar Jung
c) Shah Nawaz Khan
d) Yahiya Khan

68. Consider the following statements regarding 'Pralay' missile recently test fired by the Defence Research and Development Organisation (DRDO):

1) It is India's first surface-to-surface conventional quasi-ballistic missile.
2) The missile was tested from the Dr A.P.J. Abdul Kalam Island off the coast of Odisha.
3) It is a 150-500 km short-range and is a surface-to-surface missile with a payload capacity of 100-500 kg.

Which of the statements given above is/are correct?

a) 1 and 3 only
b) 1 and 2 only
c) 2 and 3 only
d) 1,2 and 3

69. Consider the following statements:
1) India will host the G20 summit in 2023 for the first time.
2) Piyush Goyal, Union Minister of Commerce and Industry has been appointed as India's Sherpa for the G20 summit in 2023.
3) The meet will be held in Hyderabad, Telangana.

Which of the above statement/s is/are correct?

a) 1 only b) 1, 2 and 3 c) 2 and 3 only d) 1 and 2 only

70. Based on the 2011 census, which among the following states has the highest population?

a) Madhya Pradesh b) Maharashtra
c) Rajasthan d) Gujarat

71. Consider the following statements:
1) Aharbal falls, a hill station in the southwestern part of Kashmir Valley of Jammu and Kashmir is considered as the "Niagara Falls" of Kashmir.
2) Aharbal falls is located in Baramulla District of Kashmir Valley.

Which of the above statements are correct?

a) 1 only b) 2 only
c) Both 1 and 2 d) Neither 1 nor 2

72. Which of the below is incorrectly matched in reference to the Indian Rebellion of 1857

a) Kanpur ----------Begam Hazrat Mahal
b) Delhi ----------Bakht Khan
c) Faizabad ----------Kunwar Singh
d) Bareilly ----------Khan Bahadur

73. The three states which are exempted from the purview of the Constitution (Seventy – third Amendment) Act are:

a) Manipur, Tripura and Assam b) Nagaland, Meghalaya and Mizoram
c) Arunachal Pradesh, Sikkim and Goa d) Sikkim, Tripura and Assam

74. Which Governor General brought Civil Services into existence in India?

a) Lord Cornwallis b) Lord Wellesley
c) Lord William Benting d) Lord Sailles Bury

75. Which of the following has been linked to excessive UV-B exposure?

a) Skin cancer b) Ricketts
c) Multiple sclerosis d) All of the above

76. What is the objective of SAMVEDNA Scheme?

a) To provide support to single women
b) To provide electronic access to farmers in availing credit
c) To support children affected during covid-19
d) To support elderly affected during covid-19

77. The metal which is generally absorbed by plants along with Zn and causes "Ouch Ouch" disease in human beings is

a) Pb b) Cd c) Hg d) Cr

78. Which of the following books has been written by Shri Mohammad Hamid Ansari, former Vice President of India in 2021?

a) Hop On: My Adventures on Boats, Trains and Planes
b) Undaunted: Saving the Idea of India
c) By Many a Happy Accident: Recollections of a Life
d) The Commonwealth of Cricket: A Lifelong Love Affair with the Most Subtle and Sophisticated Game Known to Humankind

79. Who among the following wrote "Pagri Sambhal Jatta"

a) Ajit Singh b) Bhagat Singh
c) Banke Dayal d) None of the above

80. When and between whom was the battle of Buxar fought?

a) In 1764, between the English and the Confederacy of Mir Qasim
b) In 1764, between Dupleix and the Confederacy of Mir Qasim
c) In 1765, between Lord Cornwallis and the Confederacy of Mir Qasim
d) In 1780, between Warren Hastings and Mir Jafar

Section-II

Directions (Question Nos. (81 to 85): Read the following information carefully to answer the questions:

I. 8 Kids Neelaksh, Asmita, Ishita, Ponty, Tanu, Dodo, Navya and Rudraksh are sitting for dinner on a round table facing centre.
II. Ponty is sitting between Neelaksh and Navya.
III. Rudraksh and Dodo are sitting next to each other.
IV. Exactly one person is sitting between Tanu and Asmita.
V. Asmita is to the right of Dodo.
VI. Neelaksh is not sitting adjacent to Dodo.

81. What is the position of Ishita with respect to Navya?

a) Fourth to the right
b) Second to the right
c) Second to the left
d) Third to the left

82. Who is sitting between Neelaksh and Ishita?

a) Ponty
b) Navya
c) Rudraksh
d) Tanu

83. In which of the following pairs, second person is sitting to the right of first person.

a) Ponty, Neelaksh
b) Dodo, Rudraksh
c) Ishita, Asmita
d) Navya, Rudraksh

84. Which of the following is correct?

a) Dodo is third to the right of Ponty
b) Asmita is second to the right of Tanu
c) Ishita is third to the right of Dodo
d) Neelaksh is second to the left of Tanu

85. Which of the following pairs is sitting next to each other?

a) Dodo, Ishita
b) Navya, Rudraksh
c) Asmita, Tanu
d) Ishita, Neelaksh

Directions (Question Nos. 86 to 89): The following table provides the details about the number of students in 5 different sports over the years.

Years	Sport				
	Cricket	Football	Basketball	Hockey	Kabaddi
2017	66	144	145	128	111
2018	121	56	100	109	149
2019	79	104	116	99	78
2020	60	57	137	150	92
2021	132	52	74	116	82

86. For which sport, total number of participants in all 5 years is second highest?

a) Kabaddi
b) Football
c) Hockey
d) Basketball

87. What is the approximate percentage of students who participated in Hockey in 2018 compared to the students participated in Cricket in the same year?

a) 111%
b) 90%
c) 43%
d) None of the above.

88. In which year was the percentage of students participating in Basketball the maximum?

a) 2017 b) 2018 c) 2019 d) 2020

89. What is the approximate percentage change in number of students participated in sports except Kabaddi in 2017 compared to that in 2020?

a) 21.67% b) 22.89% c) 16.35% d) 41.32%

90. 75 people ran a race, Raghu stood 13th from the first and Vipin stood 25th from the last. How many stood between Raghu and Vipin?

a) 34 b) 35 c) 36 d) 37

91. A number consists of two digits; the sum of the digits is 9. If 45 is subtracted from the number its digits are interchanged. What is the number?

a) 63 b) 72 c) 81 d) 90

92. A student has 60% chance of passing in English and 54% chance of passing in both English and Mathematics. What is the percentage probability that he will fail in Mathematics?

a) 12 b) 36 c) 4 d) 10

93. Ratio of Sonu's age to Manu's age is equal to 4:3. If Sonu will be 26 years old after 6 years, the present age of Manu is

a) 11 b) 15 c) 14 d) 17

94. A can do a piece of work in 32 days. B can do the same piece of work in 20 days. B started the work alone and A joined him later. The work was completed in 15 days. How many days more B worked than A.

a) 5 b) 10 c) 7 d) 8

95. How many numbers from 1 to 100 are there, each of which is not only exactly divisible by 4 but also has 4 as a digit?

a) 19 b) 12 c) 10 d) 7

96. Looking at a portrait of a woman, Ramesh said, "Her mother is the wife of my father's son. Brothers and sisters I have none." At whose portrait was Ramesh looking?

a) His aunt b) His Daughter c) His niece d) His cousin

97. A is B's sister. C is B's mother. D is C's father. E is D's spouse. Then, how is E related to B?

a) Granddaughter b) Grand Father
c) Grandson d) Grand Mother

98. If the English letters A to Z are written in a reverse order then what is the fourth letter to the right of 12th letter from the left?

a) J
b) K
c) R
d) L

99. There are two big vessels A and B containing milk. If 10 litres of milk is poured from A to B, then the milk in both vessels is same. If 20 litres of milk is poured from B to A, then the milk in A is double of the milk in B. The milk in vessel A in litres is:

a) 100
b) 80
c) 20
d) 200

100. Find the number which is different from others in the following group:
8314, 2709, 1315, 2518

a) 1315
b) 2518
c) 8314
d) 2709

101. What will come next in the series: abc, dfh, ilo, ….?

a) pqr
b) ptx
c) prt
d) psv

102. If it was Tuesday on 3rd January, 2006. What was the day on 3rd January, 2010?

a) Monday
b) Sunday
c) Wednesday
d) Tuesday

103. Prabhat gave 30% of his money to Tushar. Tushar in turn gave 2/3rd of what he receives to Jyoti. Jyoti gave Rs 100 from the money he receives to a taxi driver, then she is left with Rs 300. What was the money with Prabhat initially?

a) Rs. 2000
b) Rs. 2200
c) Rs. 2800
d) Rs. 1800

104. Three partners A, B and C distribute the earnings they got after doing a particular assignment. They got an amount of Rs.1360/-. A gets 2/3rd of B's share and B gets 1/4th of C's share. What is A's share?

a) 224
b) 160
c) 254
d) 248

105. What is mirror image of RAJASTHAN?

a) ИATHƧAᒐ AЯ
b) ИAHTAƧᒐ AЯ
c) ИATAHƧᒐ AЯ
d) ИAHTƧAᒐ AЯ

106. If 65% of a number is equal to 13/5 of another number, what is the ratio of first number to the second number?

a) 5 : 13
b) 4 : 5
c) 5 : 4
d) 4 : 1

107. The percentage profit earned by selling an article for Rs. 5760 is equal to the percentage loss incurred by selling the same article for Rs. 3840. At what price (in Rs.) should the article be sold to make 40% profit?

a) 5760
b) 6000
c) 6720
d) 6260

108. Monika and Seema both start from a point towards North. Monika turns to left after walking 10 km. Seema turns to right after walking the same distance. Monika waits for

some time and then walks another 5 km, whereas Seema walks only 3 km. They both then return to their respective South and walk 15 km forward. How far is Monika from Seema?

a) 15 km b) 10 km c) 8 km d) 12 km

109. A train of length 150 m, moving at a speed of 90 km/hr can cross a 200 metre bridge in

a) 8sec b) 14sec c) 6sec d) 15sec

110. If South- East becomes North, North- East becomes West and so on. What will West become?

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

111. There are deers and peacocks in a zoo. By counting heads they are 80 and the number of their legs is 200. How many peacocks are there?

a) 30 b) 50 c) 20 d) 60

112. A man introduced a woman as the spouse of the only son of his grandfather's only son. How is the woman related to the man?

a) Wife b) Cousin c) Sister in law d) Sister

113. The data given in the following table summarizes the monthly budget of an average household.

CATEGORY	AMOUNT
FOOD	4000
CLOTHING	1200
RENT	2000
SAVINGS	1500
OTHERS	1800

The approximate percentage of the monthly budget not spent on saving is

a) 10% b) 14% c) 81% d) 86%

114. Select the one which is different from the other three responses.

a) TGSH b) CXDW c) AZBY d) EVFU

115. Rahul, Prem, Shyam, Geet and Rinku are five friends among which Shyam is the tallest. Rahul is shorter than Prem but taller than Rinku. Geet is little shorter than Prem but little taller than Rahul. Who is taller than Rinku but shorter than Geet?

a) Rahul b) Rinku c) Prem d) Geet

116. If 5 – 5 = 24 and 7 – 7 = 48 then find the value of 10 – 10 = ?

a) 56 b) 91 c) 99 d) 80

117. If Rakesh distributes chocolates in the ratio of 1/3 : 1/7 : 1/2 : 1/5 between his four friends A, B, C and D, then find the minimum total number of chocolates Rakesh should have?

a) 210 b) 247 c) 420 d) 105

118. Sunil and Barry start from the same point and in the same direction at 8:00 am to walk around a rectangular field 500m x 400m. Sunil and Barry walk at the rate of 4km/h and 3km/h respectively. How many times shall they cross each other, if they continue to walk till 01: 30 pm?

a) Never b) Once c) Twice d) Thrice

119. There are six bells in a temple which commence tolling together and toll at an interval of 2, 4, 6, 8, 10 and 12 seconds respectively. In one hour how many times do they ring together?

a) 50 b) 30 c) 31 d) 15

120. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was :

a) 2500 b) 2700
c) 2900 d) 3100

*****

Rough Work

PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (Feb-2022) for Recruitment to the post of Analyst in the Department of Home Affairs & Justice, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 120
Time Allowed: 2 Hours

Candidate's Name _____

Father's Name _____

Date of Birth ☐☐ ☐☐ ☐☐☐☐
DD MM YYYY

OMR Response Sheet No. _____

Roll No. _____

Candidate's Signature **(Please sign in the box)**

Question Booklet Set

C

Booklet Series No.

INSTRUCTIONS

1. The candidate shall NOT open this booklet till the time told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL letters. The candidate may also fill the relevant boxes out of 1 to 9 of the Optical Mark Reader (OMR) response sheet, supplied separately
2. Use only blue or black **ball point pen** to fill the relevant columns on this page as well as in OMR sheet. Use of Ink pen or any other pen is not allowed.
3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible or incomplete.
4. Each candidate is required to attempt 120 questions in 120 minutes, except for orthopedically/visually impaired candidates, who would be given 40 extra minutes, for marking correct responses on the OMR sheet.
5. The question paper booklet has 19 pages.
6. The candidates, when allowed to open the question paper booklet, must first check the entire booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should IMMEDIATELY bring this fact to the notice of the Invigilation Staff and obtain a new booklet of the same series as given earlier.
7. The serial number of the new Question booklet if issued for some reason should be entered in the relevant column of the OMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of Question booklet.
8. The paper consists of total 480 Marks. Each question shall carry 4 marks. There are four options for each question and the candidate has to mark the MOST APPROPRIATE answer on the OMR response sheet.
9. There is negative marking (one mark for each question) for answers wrongly answered by the candidate.
10. Use of Electronic/Manual Calculator is prohibited.

11. The candidate **MUST READ INSTRUCTIONS BEHIND THE OMR SHEET** before answering the Questions and check that two carbon copies attached to the OMR sheet are intact.

Section-I

1. Which of the following telescope was recently launched by National Aeronautics and Space Administration (NASA) in collaboration with the European Space Agency (ESA), and the Canadian Space Agency?

a) Hubble Space Telescope
b) Fermi Gamma-ray Space Telescope
c) James Webb Space Telescope
d) Near Earth Object Surveillance Satellite

2. Which Five year plan recommended the land ceiling limit to three family holdings?

a) Second Five Year Plan
b) Third Five Year Plan
c) Fourth Five Year Plan
d) Fifth Five Year Plan

3. The consumption of Chemical fertilizers was an important factor in the success of Green Revolution in the late 1960's. Consider the following statements.
1) Chemical fertilizers dissolve in water and are immediately available to plants.
2) Chemical fertilizers can kill bacteria and other micro-organisms in soil.
3) The use of Chemical fertilizers caused the rise in cost of production in the long term.
Select the correct ones.

a) 1 and 2
b) 2 and 3
c) 1 and 3
d) All are correct

4. Silviculture is the management of_____.

a) Rivers b) Lakes c) Hills d) Forests

5. The orbital angular momentum of a P-electron is given as –

a) $\frac{h}{\sqrt{2\pi}}$ b) $\sqrt{3}\frac{h}{2\pi}$

c) $\sqrt{\frac{3h}{2\pi}}$ d) $\sqrt{6}\frac{h}{2\pi}$

6. Which one of these animals was not represented on the seals and terracotta art of Harappan culture?

a) Unicorn b) Tiger c) Cow d) Rhinoceros

7. The term 'recess' in parliamentary proceedings is referred to:

a) The time between adjournments

b) The time between dissolution of parliament and re-election

c) The Zero Hour

d) The time between prorogation of parliament and its re-assembly in a new session

8. The three states which are exempted from the purview of the Constitution (Seventy – third Amendment) Act are:

a) Manipur, Tripura and Assam b) Nagaland, Meghalaya and Mizoram

c) Arunachal Pradesh, Sikkim and Goa d) Sikkim, Tripura and Assam

9. Where is water stored in baobab tree?

a) Fruit b) Trunk having a spongy layer

c) Leaves d) Flowers

10. Which of the following has been linked to excessive UV-B exposure?

a) Skin cancer b) Ricketts

c) Multiple sclerosis d) All of the above

11. The chemical composition of 'slag' formed during the smelting process in the extraction of copper is –

a) CuO + FeS b) $FeSiO_3$ c) $CuFcS_2$ d) Cu_2S + FeO

12. Consider the following statements:

1) Paperless Union budget has been introduced in India in 2021 to avoid the printing of the budget documents amid the COVID pandemic.

2) The convention of presenting budget in a briefcase was discontinued in 2021 by making budget paperless.

Which of the above statements are correct?

a) 1 only
b) 2 only
c) Both 1 and 2
d) Neither 1 nor 2

13. For the very first time, this virus was synthesized in the form of non-living crystals

a) Bacteriophage
b) Tobacco mosaic virus
c) Flu Virus
d) Pox virus

14. The New Development Bank (NDB) is a multilateral development institution established by the BRICS headquartered in:

a) Shanghai
b) St. Petersburg
c) New Delhi
d) Sao Paulo

15. Which of the below is incorrectly matched in reference to the Indian Rebellion of 1857

a) Kanpur ----------Begam Hazrat Mahal
b) Delhi ----------Bakht Khan
c) Faizabad ----------Kunwar Singh
d) Bareilly ----------Khan Bahadur

16. Who among the following wrote "Pagri Sambhal Jatta"

a) Ajit Singh
b) Bhagat Singh
c) Banke Dayal
d) None of the above

17. Consider the following Statements:
Statement I : Graphene is a single thin layer 2D film
Statement II: Carbon nanotube is a thin film rolled like a 3D tube or cylinder

Which of the above statement(s) is/are correct?

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

18. Consider the following statements:
1) India will host the G20 summit in 2023 for the first time.
2) Piyush Goyal, Union Minister of Commerce and Industry has been appointed as India's Sherpa for the G20 summit in 2023.
3) The meet will be held in Hyderabad, Telangana.

Which of the above statement/s is/are correct?

a) 1 only
b) 1, 2 and 3
c) 2 and 3 only
d) 1 and 2 only

19. The increase in oil seeds production was due to:

a) White revolution
b) Yellow revolution
c) Green revolution
d) Brown revolution

20. Who became the first Indian woman cricketer to complete 10,000 international runs in all the cricket formats?

a) Smriti Mandhana
b) Mithali Raj
c) Harmanpreet Kaur
d) Shikha Pandey

21. Consider the following statements:

1) National Science Day is celebrated in India on 28th February in memory of Sir CV Raman.
2) Sir CV Raman was awarded Nobel Prize in 1930 for his discovery of the Raman Effect.
3) The theme of the National Science Day of 2022 is "Integrated approach in science and technology for a sustainable future".

Which of the above statement/s is correct?

a) 1 and 2 only
b) 2 and 3 only
c) 1 and 3 only
d) 1, 2 and 3

22. Consider the following statements:

1) The 20th edition of the World Sustainable Development Summit was organized by 'The Energy and Resources Institute' (TERI) in 2022.
2) The theme of the Summit is 'Towards a Resilient Planet: Ensuring a Sustainable and Equitable Future'.

Which of the above statements are correct?

a) 1 only
b) 2 only
c) Both 1 and 2
d) Neither 1 nor 2

23. Visakhapatnam based state-run defence shipbuilder, Hindustan Shipyard Limited (HSL) built INS Sindhuvir for which of the following countries?

a) Singapore
b) Myanmar
c) Sri Lanka
d) Maldives

24. The first recombinant antigen vaccine approved for human use is

a) Hepatitis B vaccine
b) Hib vaccine
c) Var vaccine
d) DPT vaccine

25. Consider the following statements regarding 'Pralay' missile recently test fired by the Defence Research and Development Organisation (DRDO):

1) It is India's first surface-to-surface conventional quasi-ballistic missile.
2) The missile was tested from the Dr A.P.J. Abdul Kalam Island off the coast of Odisha.

3) It is a 150-500 km short-range and is a surface-to-surface missile with a payload capacity of 100-500 kg.

Which of the statements given above is/are correct?

a) 1 and 3 only
b) 1 and 2 only
c) 2 and 3 only
d) 1,2 and 3

26. A purely Indian concern founded in 1895 was:

a) Bank of Punjab
b) Punjab Insurance Company
c) Punjab National Bank
d) People's Bank

27. The term *Mahalwari* System is defined as

a) It comes from the word Mahalla
b) It stood for Dual Government
c) The system derives its name from the word *mahal* which means a estate or a village
d) Revenue settlement with a zamindar of a village

28. Which of the following statement (s) about the Kyoto Protocol is/are correct?

1) Kyoto Protocol is an international agreement linked to the UNFCCC (United Nations Framework Convention on Climate Change) which commits its parties by setting internationally binding emission reduction targets.
2) It was adopted in 1997 and came into force in 2005.
3) It recognized that both developed and developing countries are equally responsible for the current level of GHG emissions.
4) The detailed rules for the implementation of the Protocol were adopted at COP-7 in Tokyo.

Select the correct answer from the codes given below.

a) 1 and 2
b) 2 and 3
c) 1 and 4
d) 2 and 4

29. Which of the following books has been written by Shri Mohammad Hamid Ansari, former Vice President of India in 2021?

a) Hop On: My Adventures on Boats, Trains and Planes
b) Undaunted: Saving the Idea of India
c) By Many a Happy Accident: Recollections of a Life
d) The Commonwealth of Cricket: A Lifelong Love Affair with the Most Subtle and Sophisticated Game Known to Humankind

30. With reference to the evolution of Panchayati Raj System, consider the following statement:

1) The terms of reference for G. V. K. Rao Committee was to review the existing administrative arrangements for rural development.

2) L. M. Singhvi Committee was set up to prepare a concept paper on the revitalization of the Panchayti Raj Institutions.

Which of the statements given above is/are correct?

a) 1 only
b) 2 only
c) Both I and 2
d) Neither 1 nor 2

31. Which of the following schemes aims to provide social security to persons above 60 years of age to protect them against a future fall in their interest income due to uncertain market conditions?

a) Pradhan Mantri Ujjwala Yojana
b) Pradhan Mantri Vaya Vandana Yojana
c) Pradhan Mantri Jeevan Jyoti Bima Yojana
d) Pradhan Mantri Jan-Dhan Yojana

32. Whom did Ahmed Shah Abdali defeat in 1752 to occupy Lahore?

a) Muin ul Mulk
b) Safdar Jung
c) Shah Nawaz Khan
d) Yahiya Khan

33. Who amongst the following introduced railways for the first time in India?

a) Lord Wellesley
b) Lord Hastings
c) Lord Dalhousie
d) Lord Ripon

34. Dark green colouration in leaves is caused due to deficiency of which mineral?

a) Calcium
b) Phosphorus
c) Nitrogen
d) Potassium

35. Leading cause of Diarrheal disease

a) Enterotoxigenic *Escherichia coli*
b) *Salmonella*(non-typhoid)
c) Rotavirus
d) Campylobacter jejuni

36. The present base year of Wholesale Price Index is -

a) 2000-01
b) 2002-03
c) 2011-12
d) 2005-06

37. The Preamble of the Constitution of India enshrines the ideals of liberty, equality and fraternity – ideals mainly inspired by the:

a) Russian Revolution
b) Irish Revolution
c) French Revolution
d) Cultural Revolution

38. Vitamin B_{12} contains –

a) Co
b) Mn
c) Mg
d) Fe

39. By which bill budget does the government make arrangement for the collection of revenues for a year?

a) A Supplementary Budget
b) Finance Bill
c) Fiscal Budget
d) Economic Bill

40. Amrita Pritam received many awards for her writings. Identify the award she did not receive:

a) Sahitya Academy Award
b) Padma Shri
c) Booker Prize for Literature
d) Jnanpith Award

41. In 1922, who organized the Swaraj party along with CR Das?

a) Rabindra Nath Tagore
b) Motilal Nehru
c) Subash Chandra Bose
d) Madan Mohan Malaviya

42. Who among the following strongly said that "Man is a Political Animal"?

a) Socrates
b) Plato
c) Aristotle
d) None of the Above.

43. 'Meerut Conspiracy case' is associated with which of the following?

a) Industrial disputes
b) Trade Union Act
c) Bonded Labor
d) None of above

44. *Trichoderma harzianum* has proved a useful microorganism for:

a) Reclamation of wastelands
b) Bioremediation of contaminated soils
c) Biological control of soil-borne plant pathogens
d) Gene transfer in higher plants

45. With reference to the electronic voting machines, consider the following statements:

1) The Voter Verifiable Paper Audit Trail System (VVPAT) is a standard feature of all electronic voting machines (EVM)
2) Standard features of electronic voting machines does not include functions of VVPAT system.

Which of the statements given above is/are correct?

a) 1 only
b) 2 only
c) Both I and 2
d) Neither 1 nor 2

46. Who is the current Secretary General of United Nations Organisation (UNO)?

a) Antonio Guterres
b) Kurt Waldheim
c) Boutros Boutros-Ghali
d) Ban Ki Moon

47. Which of the following governments has recently issued a coin in the name of Mahatma Gandhi to commemorate his life and legacy?

a) United States of America
b) Australia
c) Ukraine
d) United Kingdom

48. Which of the following states has declared a complete ban on the controversial herbicide, Glyphosate in May, 2021?

a) Andhra Pradesh
b) Telangana
c) Kerala
d) Punjab

49. At which place is Baba Banda Singh Bahadur War Memorial located?

a) Chappar Chiri
b) Sarhind
c) Kartarpur
d) Samana

50. Name the country that has issued Golden Visa to all doctors residing in their country.

a) Oman
b) UAE
c) Saudi Arabia
d) Egypt.

51. Which among the following countries has signed pact with India for the purchase of BrahMos Supersonic Cruise missile system?

a) Philippines
b) Indonesia
c) Malaysia
d) Brazil

52. SANKALP has been launched:

a) To provide better healthcare for rural poor
b) To provide better healthcare for urban poor
c) To provide quality education
d) To provide market relevant training to youths

53. The molecular mass of a gas is :

a) Twice of its vapour pressure
b) Equal to its vapour pressure
c) Half of its vapour pressure
d) Not associated with its vapour pressure

54. When and between whom was the battle of Buxar fought?

a) In 1764, between the English and the Confederacy of Mir Qasim
b) In 1764, between Dupleix and the Confederacy of Mir Qasim
c) In 1765, between Lord Cornwallis and the Confederacy of Mir Qasim
d) In 1780, between Warren Hastings and Mir Jafar

55. Based on the 2011 census, which among the following states has the highest population?

a) Madhya Pradesh
b) Maharashtra
c) Rajasthan
d) Gujarat

56. India has been re-elected to the United Nations Human Rights Council (UNHRC) for the sixth term from -

a) January 2021 to December 2023
b) January 2022 to December 2024
c) January 2023 to December 2024
d) January 2024 to December 2026

57. The relation between algae and fungi in lichen is

a) Symbiosis
b) Parasitism
c) Commenalism
d) Protocooperation

58. What is the name of the element with atomic number 105?

a) Dubnium
b) Holmium
c) Kwichatovium
d) Nobelium

59. Glycolysis process occurs in which part of the cell?

a) Cytoplasm
b) Nucleus
c) Mitochondria
d) Chloroplast

60. Which of the following is a world famous beach for the 'Arribada' (arrival) of Olive Ridley Turtles in India?

a) Gahirmatha, Orissa
b) Marina Beach, Chennai
c) Gulf of Kutch, Gujarat
d) Kovalam Beach, Kerala

61. Which among the following is not an Indirect Tax?

a) Corporation Tax
b) Service Tax
c) Custom Duty
d) Excise Duty

62. The Allahabad pillar inscription was composed by

a) Meghavarma
b) Harisena
c) Rudradeva
d) Ravikirti

63. Who authored the book *Poverty and Un-British Rule in India*?

a) R.C.Dutt
b) Dadabhai Naoroji
c) Rajani Palm Dutt
d) Bipan Chandra

64. The metal which is generally absorbed by plants along with Zn and causes "Ouch Ouch" disease in human beings is

a) Pb
b) Cd
c) Hg
d) Cr

65. "*Bermuda grass allergy*" is a type of

a) Air-borne allergy
b) Contact allergy
c) Hydro-borne allergy
d) Soil-borne allergy

66. Which Governor General brought Civil Services into existence in India?

a) Lord Cornwallis
b) Lord Wellesley
c) Lord William Benting
d) Lord Sailles Bury

67. -------- is a NASA's spacecraft on a twelve-year journey to visit a main belt asteroid as well as seven Jupiter Trojans that share Jupiter's orbit around the Sun.

a) Orion
b) Apollo
c) Voyager
d) Lucy

68. Which is the major cause of nutritional blindness in children usually between 1 - 3 years of age?

a) Scurvy
b) Keratomalacia
c) Aneamia
d) Dandruff

69. The famous drama, 'Mudrarakshasa' was written by

a) Malayakethu
b) Visakhadatta
c) Kautilya
d) Chanakya

70. According to Article 170, the maximum members of the State Legislative Assemblies which are directly elected could be:

a) 403
b) 485
c) 484
d) 500

71. In which year, the United Nations adopted the Universal Declaration of Human Rights?

a) 1945
b) 1948
c) 1966
d) 1981

72. Consider the following statements:

1) Aharbal falls, a hill station in the southwestern part of Kashmir Valley of Jammu and Kashmir is considered as the "Niagara Falls" of Kashmir.
2) Aharbal falls is located in Baramulla District of Kashmir Valley.

Which of the above statements are correct?

a) 1 only
b) 2 only
c) Both 1 and 2
d) Neither 1 nor 2

73. Common indicator organism of water pollution is:

a) Entamoeba histolytica
b) Escherichia coli
c) Eichhornia crassipes
d) Lemna paucicostata

74. Which among the following has been recently declared as the fourth Tiger reserve by the National Tiger Conservation Authority in the state of Chhattisgarh?

a) Indravati
b) Sitanadi

c) Achanakmar

d) Guru Ghasidas National Park andTamor Pingla Wildlife Sanctuary

75. What is the name of a species that is highly connected to the entire food web and whose loss may result in ecosystem collapse?

a) Limiting species
b) Keystone species
c) Vital species
d) Top species

76. With reference to Raja Ram Mohan Roy, which of the following statements is/are correct?

1) He believed that English education would open the gates of the liberal thought of the English in India.
2) He sponsored the opening of the Hindu College and fought for the freedom of press
3) He was the first man to enunciate the rights of man
4) He cannot be called as prophet of Humanity

a) 1 and 2
b) 1, 2 and 3
c) 3 and 4
d) 1 and 3

77. The performing art 'Nata Sankirtana' is a festival of

a) Mizoram
b) Manipur
c) Assam
d) Tripura.

78. In case of India we have unemployment in rural and urban areas. Consider the following statements about types of unemployment in India.

1) Disguised unemployment happens when people are not able to find jobs during some months of the year due to agricultural patterns.
2) Educated unemployment is a result of improper management of Human resources.
3) In case of India, statistically, the unemployment rate is low.

Select the correct statements using codes below.

a) 1 and 2
b) 1 and 3
c) 2 and 3
d) All of the above

79. Match the following International Organizations and their headquarters

1) ILO	A. Washington D.C.
2) IMF	B. Geneva
3) UNESCO	C. New York City
4) UNICEF	D. Paris

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

80. What is the objective of SAMVEDNA Scheme?

a) To provide support to single women
b) To provide electronic access to farmers in availing credit
c) To support children affected during covid-19

d) To support elderly affected during covid-19

Section-II

Directions (Question Nos. 81 to 85): Read the following information carefully to answer the questions:

I. 8 Kids Neelaksh, Asmita, Ishita, Ponty, Tanu, Dodo, Navya and Rudraksh are sitting for dinner on a round table facing centre.
II. Ponty is sitting between Neelaksh and Navya.
III. Rudraksh and Dodo are sitting next to each other.
IV. Exactly one person is sitting between Tanu and Asmita.
V. Asmita is to the right of Dodo.
VI. Neelaksh is not sitting adjacent to Dodo.

81. What is the position of Ishita with respect to Navya?

a) Fourth to the right
b) Second to the right
c) Second to the left
d) Third to the left

82. Who is sitting between Neelaksh and Ishita?

a) Ponty
b) Navya
c) Rudraksh
d) Tanu

83. In which of the following pairs, second person is sitting to the right of first person.

a) Ponty, Neelaksh
b) Dodo, Rudraksh
c) Ishita, Asmita
d) Navya, Rudraksh

84. Which of the following is correct?

a) Dodo is third to the right of Ponty
b) Asmita is second to the right of Tanu
c) Ishita is third to the right of Dodo
d) Neelaksh is second to the left of Tanu

85. Which of the following pairs is sitting next to each other?

a) Dodo, Ishita
b) Navya, Rudraksh
c) Asmita, Tanu
d) Ishita, Neelaksh

Directions (Question Nos. 86 to 89): The following table provides the details about the number of students in 5 different sports over the years.

Years	Sport				
	Cricket	Football	Basketball	Hockey	Kabaddi
2017	66	144	145	128	111
2018	121	56	100	109	149
2019	79	104	116	99	78
2020	60	57	137	150	92

2021	132	52	74	116	82

86. For which sport, total number of participants in all 5 years is second highest?

a) Kabaddi b) Football c) Hockey d) Basketball

87. What is the approximate percentage of students who participated in Hockey in 2018 compared to the students participated in Cricket in the same year?

a) 111% b) 90%
c) 43% d) None of the above.

88. In which year was the percentage of students participating in Basketball the maximum?

a) 2017 b) 2018 c) 2019 d) 2020

89. What is the approximate percentage change in number of students participated in sports except Kabaddi in 2017 compared to that in 2020?

a) 21.67% b) 22.89% c) 16.35% d) 41.32%

90. What is mirror image of RAJASTHAN?

a) ИATHƧAᒐ AЯ b) ИAHTAƧᒐ AЯ
c) ИATAHƧᒐ AЯ d) ИAHTƧAᒐ AЯ

91. If 5 – 5 = 24 and 7 – 7 = 48 then find the value of 10 – 10 = ?

a) 56 b) 91 c) 99 d) 80

92. A man introduced a woman as the spouse of the only son of his grandfather's only son. How is the woman related to the man?

a) Wife b) Cousin c) Sister in law d) Sister

93. There are two big vessels A and B containing milk. If 10 litres of milk is poured from A to B, then the milk in both vessels is same. If 20 litres of milk is poured from B to A, then the milk in A is double of the milk in B. The milk in vessel A in litres is:

a) 100 b) 80 c) 20 d) 200

94. Three partners A, B and C distribute the earnings they got after doing a particular assignment. They got an amount of Rs.1360/-. A gets $2/3^{rd}$ of B's share and B gets $1/4^{th}$ of C's share. What is A's share?

a) 224 b) 160 c) 254 d) 248

95. Looking at a portrait of a woman, Ramesh said, "Her mother is the wife of my father's son. Brothers and sisters I have none." At whose portrait was Ramesh looking?

a) His aunt b) His Daughter c) His niece d) His cousin

96. A can do a piece of work in 32 days. B can do the same piece of work in 20 days. B started the work alone and A joined him later. The work was completed in 15 days. How many days more B worked than A.

a) 5 b) 10 c) 7 d) 8

97. A number consists of two digits; the sum of the digits is 9. If 45 is subtracted from the number its digits are interchanged. What is the number?

a) 63 b) 72 c) 81 d) 90

98. If South- East becomes North, North- East becomes West and so on. What will West become?

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

99. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was :

a) 2500 b) 2700
c) 2900 d) 3100

100. Monika and Seema both start from a point towards North. Monika turns to left after walking 10 km. Seema turns to right after walking the same distance. Monika waits for some time and then walks another 5 km, whereas Seema walks only 3 km. They both then return to their respective South and walk 15 km forward. How far is Monika from Seema?

a) 15 km b) 10 km c) 8 km d) 12 km

101. A student has 60% chance of passing in English and 54% chance of passing in both English and Mathematics. What is the percentage probability that he will fail in Mathematics?

a) 12 b) 36 c) 4 d) 10

102. Select the one which is different from the other three responses.

a) TGSH b) CXDW c) AZBY d) EVFU

103. Ratio of Sonu's age to Manu's age is equal to 4:3. If Sonu will be 26 years old after 6 years, the present age of Manu is

a) 11 b) 15 c) 14 d) 17

104. There are six bells in a temple which commence tolling together and toll at an interval of 2, 4, 6, 8, 10 and 12 seconds respectively. In one hour how many times do they ring together?

a) 50 b) 30 c) 31 d) 15

105. The percentage profit earned by selling an article for Rs. 5760 is equal to the percentage loss incurred by selling the same article for Rs. 3840. At what price (in Rs.) should the article be sold to make 40% profit?

a) 5760 b) 6000 c) 6720 d) 6260

106. How many numbers from 1 to 100 are there, each of which is not only exactly divisible by 4 but also has 4 as a digit?

a) 19 b) 12 c) 10 d) 7

107. If the English letters A to Z are written in a reverse order then what is the fourth letter to the right of 12th letter from the left?

a) J b) K
c) R d) L

108. 75 people ran a race, Raghu stood 13th from the first and Vipin stood 25th from the last. How many stood between Raghu and Vipin?

a) 34 b) 35 c) 36 d) 37

109. If 65% of a number is equal to 13/5 of another number, what is the ratio of first number to the second number?

a) 5 : 13 b) 4 : 5 c) 5 : 4 d) 4 : 1

110. If Rakesh distributes chocolates in the ratio of 1/3 : 1/7 : 1/2 : 1/5 between his four friends A, B, C and D, then find the minimum total number of chocolates Rakesh should have?

a) 210 b) 247 c) 420 d) 105

111. Rahul, Prem, Shyam, Geet and Rinku are five friends among which Shyam is the tallest. Rahul is shorter than Prem but taller than Rinku. Geet is little shorter than Prem but little taller than Rahul. Who is taller than Rinku but shorter than Geet?

a) Rahul b) Rinku c) Prem d) Geet

112. A train of length 150 m, moving at a speed of 90 km/hr can cross a 200 metre bridge in

a) 8sec b) 14sec c) 6sec d) 15sec

113. There are deers and peacocks in a zoo. By counting heads they are 80 and the number of their legs is 200. How many peacocks are there?

a) 30 b) 50 c) 20 d) 60

114. Find the number which is different from others in the following group:
8314, 2709, 1315, 2518

a) 1315 b) 2518 c) 8314 d) 2709

115. If it was Tuesday on 3rd January, 2006. What was the day on 3rd January, 2010?

a) Monday b) Sunday c) Wednesday d) Tuesday

116. A is B's sister. C is B's mother. D is C's father. E is D's spouse. Then, how is E related to B?

a) Granddaughter b) Grand Father
c) Grandson d) Grand Mother

117. Sunil and Barry start from the same point and in the same direction at 8:00 am to walk around a rectangular field 500m x 400m. Sunil and Barry walk at the rate of 4km/h and 3km/h respectively. How many times shall they cross each other, if they continue to walk till 01: 30 pm?

a) Never b) Once c) Twice d) Thrice

118. The data given in the following table summarizes the monthly budget of an average household.

CATEGORY	AMOUNT
FOOD	4000
CLOTHING	1200
RENT	2000
SAVINGS	1500
OTHERS	1800

The approximate percentage of the monthly budget not spent on saving is

a) 10% b) 14% c) 81% d) 86%

119. Prabhat gave 30% of his money to Tushar. Tushar in turn gave 2/3rd of what he receives to Jyoti. Jyoti gave Rs 100 from the money he receives to a taxi driver, then she is left with Rs 300. What was the money with Prabhat initially?

a) Rs. 2000 b) Rs. 2200 c) Rs. 2800 d) Rs. 1800

120. What will come next in the series: abc, dfh, ilo, ….?

a) pqr b) ptx c) prt d) psv

*****

Rough Work

PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (Feb-2022) for Recruitment to the post of Analyst in the Department of Home Affairs & Justice, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 120
Time Allowed: 2 Hours

Candidate's Name _____

Father's Name _____

Date of Birth ☐☐ ☐☐ ☐☐☐☐
DD MM YYYY

OMR Response Sheet No. _____

Roll No. _____

Candidate's Signature **(Please sign in the box)**

Question Booklet Set

D

Booklet Series No.

INSTRUCTIONS

1. The candidate shall NOT open this booklet till the time told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL letters. The candidate may also fill the relevant boxes out of 1 to 9 of the Optical Mark Reader (OMR) response sheet, supplied separately

2. Use only blue or black **ball point pen** to fill the relevant columns on this page as well as in OMR sheet. Use of Ink pen or any other pen is not allowed.

3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible or incomplete.

4. Each candidate is required to attempt 120 questions in 120 minutes, except for orthopedically/visually impaired candidates, who would be given 40 extra minutes, for marking correct responses on the OMR sheet.

5. The question paper booklet has 19 pages.

6. The candidates, when allowed to open the question paper booklet, must first check the entire booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should IMMEDIATELY bring this fact to the notice of the Invigilation Staff and obtain a new booklet of the same series as given earlier.

7. The serial number of the new Question booklet if issued for some reason should be entered in the relevant column of the OMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of Question booklet.

8. The paper consists of total 480 Marks. Each question shall carry 4 marks. There are four options for each question and the candidate has to mark the MOST APPROPRIATE answer on the OMR response sheet.

9. There is negative marking (one mark for each question) for answers wrongly answered by the candidate.

10. Use of Electronic/Manual Calculator is prohibited.

11. The candidate **MUST READ INSTRUCTIONS BEHIND THE OMR SHEET** before answering the Questions and check that two carbon copies attached to the OMR sheet are intact.

Section-I

1. The term *Mahalwari* System is defined as

a) It comes from the word Mahalla
b) It stood for Dual Government
c) The system derives its name from the word *mahal* which means a estate or a village
d) Revenue settlement with a zamindar of a village

2. Where is water stored in baobab tree?

a) Fruit
b) Trunk having a spongy layer
c) Leaves
d) Flowers

3. Who is the current Secretary General of United Nations Organisation (UNO)?

a) Antonio Guterres
b) Kurt Waldheim
c) Boutros Boutros-Ghali
d) Ban Ki Moon

4. Which of the following books has been written by Shri Mohammad Hamid Ansari, former Vice President of India in 2021?

a) Hop On: My Adventures on Boats, Trains and Planes

b) Undaunted: Saving the Idea of India

c) By Many a Happy Accident: Recollections of a Life

d) The Commonwealth of Cricket: A Lifelong Love Affair with the Most Subtle and Sophisticated Game Known to Humankind

5. Which of the following statement (s) about the Kyoto Protocol is/are correct?

1) Kyoto Protocol is an international agreement linked to the UNFCCC (United Nations Framework Convention on Climate Change) which commits its parties by setting internationally binding emission reduction targets.
2) It was adopted in 1997 and came into force in 2005.
3) It recognized that both developed and developing countries are equally responsible for the current level of GHG emissions.
4) The detailed rules for the implementation of the Protocol were adopted at COP-7 in Tokyo.

Select the correct answer from the codes given below.

a) 1 and 2 b) 2 and 3 c) 1 and 4 d) 2 and 4

6. Who among the following strongly said that "Man is a Political Animal"?

a) Socrates b) Plato

c) Aristotle d) None of the Above.

7. Consider the following statements:

1) Aharbal falls, a hill station in the southwestern part of Kashmir Valley of Jammu and Kashmir is considered as the "Niagara Falls" of Kashmir.
2) Aharbal falls is located in Baramulla District of Kashmir Valley.

Which of the above statements are correct?

a) 1 only b) 2 only

c) Both 1 and 2 d) Neither 1 nor 2

8. The three states which are exempted from the purview of the Constitution (Seventy – third Amendment) Act are:

a) Manipur, Tripura and Assam b) Nagaland, Meghalaya and Mizoram

c) Arunachal Pradesh, Sikkim and Goa d) Sikkim, Tripura and Assam

9. In 1922, who organized the Swaraj party along with CR Das?

a) Rabindra Nath Tagore b) Motilal Nehru

c) Subash Chandra Bose
d) Madan Mohan Malaviya

10. Consider the following statements:
1) India will host the G20 summit in 2023 for the first time.
2) Piyush Goyal, Union Minister of Commerce and Industry has been appointed as India's Sherpa for the G20 summit in 2023.
3) The meet will be held in Hyderabad, Telangana.

Which of the above statement/s is/are correct?

a) 1 only
b) 1, 2 and 3
c) 2 and 3 only
d) 1 and 2 only

11. Which of the following has been linked to excessive UV-B exposure?

a) Skin cancer
b) Ricketts
c) Multiple sclerosis
d) All of the above

12. Based on the 2011 census, which among the following states has the highest population?

a) Madhya Pradesh
b) Maharashtra
c) Rajasthan
d) Gujarat

13. The first recombinant antigen vaccine approved for human use is

a) Hepatitis B vaccine
b) Hib vaccine
c) Var vaccine
d) DPT vaccine

14. The term 'recess' in parliamentary proceedings is referred to:

a) The time between adjournments
b) The time between dissolution of parliament and re-election
c) The Zero Hour
d) The time between prorogation of parliament and its re-assembly in a new session

15. Vitamin B_{12} contains –

a) Co
b) Mn
c) Mg
d) Fe

16. The consumption of Chemical fertilizers was an important factor in the success of Green Revolution in the late 1960's. Consider the following statements.
1) Chemical fertilizers dissolve in water and are immediately available to plants.
2) Chemical fertilizers can kill bacteria and other micro-organisms in soil.
3) The use of Chemical fertilizers caused the rise in cost of production in the long term.
Select the correct ones.

a) 1 and 2
b) 2 and 3
c) 1 and 3
d) All are correct

17. Amrita Pritam received many awards for her writings. Identify the award she did not receive:

a) Sahitya Academy Award
b) Padma Shri
c) Booker Prize for Literature
d) Jnanpith Award

18. Which among the following countries has signed pact with India for the purchase of BrahMos Supersonic Cruise missile system?

a) Philippines
b) Indonesia
c) Malaysia
d) Brazil

19. The molecular mass of a gas is :

a) Twice of its vapour pressure
b) Equal to its vapour pressure
c) Half of its vapour pressure
d) Not associated with its vapour pressure

20. Visakhapatnam based state-run defence shipbuilder, Hindustan Shipyard Limited (HSL) built INS Sindhuvir for which of the following countries?

a) Singapore
b) Myanmar
c) Sri Lanka
d) Maldives

21. Which Governor General brought Civil Services into existence in India?

a) Lord Cornwallis
b) Lord Wellesley
c) Lord William Benting
d) Lord Sailles Bury

22. SANKALP has been launched:

a) To provide better healthcare for rural poor
b) To provide better healthcare for urban poor
c) To provide quality education
d) To provide market relevant training to youths

23. Which among the following is not an Indirect Tax?

a) Corporation Tax
b) Service Tax
c) Custom Duty
d) Excise Duty

24. In case of India we have unemployment in rural and urban areas. Consider the following statements about types of unemployment in India.

1) Disguised unemployment happens when people are not able to find jobs during some months of the year due to agricultural patterns.
2) Educated unemployment is a result of improper management of Human resources.
3) In case of India, statistically, the unemployment rate is low.

Select the correct statements using codes below.

a) 1 and 2
b) 1 and 3
c) 2 and 3
d) All of the above

25. What is the objective of SAMVEDNA Scheme?

a) To provide support to single women
b) To provide electronic access to farmers in availing credit
c) To support children affected during covid-19
d) To support elderly affected during covid-19

26. Which one of these animals was not represented on the seals and terracotta art of Harappan culture?

a) Unicorn
b) Tiger
c) Cow
d) Rhinoceros

27. -------- is a NASA's spacecraft on a twelve-year journey to visit a main belt asteroid as well as seven Jupiter Trojans that share Jupiter's orbit around the Sun.

a) Orion
b) Apollo
c) Voyager
d) Lucy

28. Which of the below is incorrectly matched in reference to the Indian Rebellion of 1857

a) Kanpur ----------Begam Hazrat Mahal
b) Delhi ----------Bakht Khan
c) Faizabad ----------Kunwar Singh
d) Bareilly ----------Khan Bahadur

29. The chemical composition of 'slag' formed during the smelting process in the extraction of copper is –

a) CuO + FeS
b) $FeSiO_3$
c) $CuFcS_2$
d) Cu_2S + FeO

30. Which of the following states has declared a complete ban on the controversial herbicide, Glyphosate in May, 2021?

a) Andhra Pradesh
b) Telangana
c) Kerala
d) Punjab

31. *Trichoderma harzianum* has proved a useful microorganism for:

a) Reclamation of wastelands
b) Bioremediation of contaminated soils
c) Biological control of soil-borne plant pathogens
d) Gene transfer in higher plants

32. Which of the following is a world famous beach for the 'Arribada' (arrival) of Olive Ridley Turtles in India?

a) Gahirmatha, Orissa
b) Marina Beach, Chennai
c) Gulf of Kutch, Gujarat
d) Kovalam Beach, Kerala

33. The Preamble of the Constitution of India enshrines the ideals of liberty, equality and fraternity – ideals mainly inspired by the:

a) Russian Revolution
b) Irish Revolution
c) French Revolution
d) Cultural Revolution

34. What is the name of the element with atomic number 105?

a) Dubnium
b) Holmium
c) Kwichatovium
d) Nobelium

35. When and between whom was the battle of Buxar fought?

a) In 1764, between the English and the Confederacy of Mir Qasim
b) In 1764, between Dupleix and the Confederacy of Mir Qasim
c) In 1765, between Lord Cornwallis and the Confederacy of Mir Qasim
d) In 1780, between Warren Hastings and Mir Jafar

36. By which bill budget does the government make arrangement for the collection of revenues for a year ?

a) A Supplementary Budget
b) Finance Bill
c) Fiscal Budget
d) Economic Bill

37. Dark green colouration in leaves is caused due to deficiency of which mineral?

a) Calcium
b) Phosphorus
c) Nitrogen
d) Potassium

38. With reference to the electronic voting machines, consider the following statements:

1) The Voter Verifiable Paper Audit Trail System (VVPAT) is a standard feature of all electronic voting machines (EVM)
2) Standard features of electronic voting machines does not include functions of VVPAT system.

Which of the statements given above is/are correct?

a) 1 only
b) 2 only
c) Both I and 2
d) Neither 1 nor 2

39. The metal which is generally absorbed by plants along with Zn and causes "Ouch Ouch" disease in human beings is

a) Pb
b) Cd
c) Hg
d) Cr

40. "*Bermuda grass allergy*" is a type of

a) Air-borne allergy
b) Contact allergy

c) Hydro-borne allergy
d) Soil-borne allergy

41. Consider the following Statements:
Statement I : Graphene is a single thin layer 2D film
Statement II: Carbon nanotube is a thin film rolled like a 3D tube or cylinder

Which of the above statement(s) is/are correct?

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

42. The present base year of Wholesale Price Index is -

a) 2000-01
b) 2002-03
c) 2011-12
d) 2005-06

43. Glycolysis process occurs in which part of the cell?

a) Cytoplasm
b) Nucleus
c) Mitochondria
d) Chloroplast

44. Who among the following wrote "Pagri Sambhal Jatta"

a) Ajit Singh
b) Bhagat Singh
c) Banke Dayal
d) None of the above

45. The Allahabad pillar inscription was composed by

a) Meghavarma
b) Harisena
c) Rudradeva
d) Ravikirti

46. Consider the following statements:
1) Paperless Union budget has been introduced in India in 2021 to avoid the printing of the budget documents amid the COVID pandemic.
2) The convention of presenting budget in a briefcase was discontinued in 2021 by making budget paperless.

Which of the above statements are correct?

a) 1 only
b) 2 only
c) Both 1 and 2
d) Neither 1 nor 2

47. The famous drama, 'Mudrarakshasa' was written by

a) Malayakethu
b) Visakhadatta
c) Kautilya
d) Chanakya

48. Which of the following schemes aims to provide social security to persons above 60 years of age to protect them against a future fall in their interest income due to uncertain market conditions?

a) Pradhan Mantri Ujjwala Yojana
b) Pradhan Mantri Vaya Vandana Yojana

c) Pradhan Mantri Jeevan Jyoti Bima Yojana
d) Pradhan Mantri Jan-Dhan Yojana

49. The relation between algae and fungi in lichen is

a) Symbiosis
b) Parasitism
c) Commenalism
d) Protocooperation

50. The orbital angular momentum of a P-electron is given as –

a) $\frac{h}{\sqrt{2\pi}}$
b) $\sqrt{3}\frac{h}{2\pi}$
c) $\sqrt{\frac{3h}{2\pi}}$
d) $\sqrt{6}\frac{h}{2\pi}$

51. Match the following International Organizations and their headquarters

1) ILO	A. Washington D.C.
2) IMF	B. Geneva
3) UNESCO	C. New York City
4) UNICEF	D. Paris

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

52. Silviculture is the management of_____.

a) Rivers
b) Lakes
c) Hills
d) Forests

53. Whom did Ahmed Shah Abdali defeat in 1752 to occupy Lahore?

a) Muin ul Mulk
b) Safdar Jung
c) Shah Nawaz Khan
d) Yahiya Khan

54. Consider the following statements regarding 'Pralay' missile recently test fired by the Defence Research and Development Organisation (DRDO):

1) It is India's first surface-to-surface conventional quasi-ballistic missile.
2) The missile was tested from the Dr A.P.J. Abdul Kalam Island off the coast of Odisha.
3) It is a 150-500 km short-range and is a surface-to-surface missile with a payload capacity of 100-500 kg.

Which of the statements given above is/are correct?

a) 1 and 3 only
b) 1 and 2 only
c) 2 and 3 only
d) 1,2 and 3

55. The increase in oil seeds production was due to:

a) White revolution
b) Yellow revolution
c) Green revolution
d) Brown revolution

56. For the very first time, this virus was synthesized in the form of non-living crystals

a) Bacteriophage
b) Tobacco mosaic virus
c) Flu Virus
d) Pox virus

57. At which place is Baba Banda Singh Bahadur War Memorial located?

a) Chappar Chiri
b) Sarhind
c) Kartarpur
d) Samana

58. What is the name of a species that is highly connected to the entire food web and whose loss may result in ecosystem collapse?

a) Limiting species
b) Keystone species
c) Vital species
d) Top species

59. The New Development Bank (NDB) is a multilateral development institution established by the BRICS headquartered in:

a) Shanghai
b) St. Petersburg
c) New Delhi
d) Sao Paulo

60. Which of the following governments has recently issued a coin in the name of Mahatma Gandhi to commemorate his life and legacy?

a) United States of America
b) Australia
c) Ukraine
d) United Kingdom

61. With reference to the evolution of Panchayati Raj System, consider the following statement:

1) The terms of reference for G. V. K. Rao Committee was to review the existing administrative arrangements for rural development.
2) L. M. Singhvi Committee was set up to prepare a concept paper on the revitalization of the Panchayti Raj Institutions.

Which of the statements given above is/are correct?

a) 1 only
b) 2 only
c) Both I and 2
d) Neither 1 nor 2

62. In which year, the United Nations adopted the Universal Declaration of Human Rights?

a) 1945
b) 1948
c) 1966
d) 1981

63. Which Five year plan recommended the land ceiling limit to three family holdings?

a) Second Five Year Plan
b) Third Five Year Plan
c) Fourth Five Year Plan
d) Fifth Five Year Plan

64. Who became the first Indian woman cricketer to complete 10,000 international runs in all the cricket formats?

a) Smriti Mandhana
b) Mithali Raj
c) Harmanpreet Kaur
d) Shikha Pandey

65. Name the country that has issued Golden Visa to all doctors residing in their country.

a) Oman
b) UAE
c) Saudi Arabia
d) Egypt.

66. The performing art 'Nata Sankirtana' is a festival of

a) Mizoram
b) Manipur
c) Assam
d) Tripura.

67. Who authored the book *Poverty and Un-British Rule in India*?

a) R.C.Dutt
b) Dadabhai Naoroji
c) Rajani Palm Dutt
d) Bipan Chandra

68. India has been re-elected to the United Nations Human Rights Council (UNHRC) for the sixth term from -

a) January 2021 to December 2023
b) January 2022 to December 2024
c) January 2023 to December 2024
d) January 2024 to December 2026

69. Consider the following statements:

1) The 20th edition of the World Sustainable Development Summit was organized by 'The Energy and Resources Institute' (TERI) in 2022.
2) The theme of the Summit is 'Towards a Resilient Planet: Ensuring a Sustainable and Equitable Future'.

Which of the above statements are correct?

a) 1 only
b) 2 only
c) Both 1 and 2
d) Neither 1 nor 2

70. 'Meerut Conspiracy case' is associated with which of the following?

a) Industrial disputes
b) Trade Union Act
c) Bonded Labor
d) None of above

71. Which of the following telescope was recently launched by National Aeronautics and Space Administration (NASA) in collaboration with the European Space Agency (ESA), and the Canadian Space Agency?

a) Hubble Space Telescope
b) Fermi Gamma-ray Space Telescope
c) James Webb Space Telescope
d) Near Earth Object Surveillance Satellite

72. With reference to Raja Ram Mohan Roy, which of the following statements is/are correct?

1) He believed that English education would open the gates of the liberal thought of the English in India.
2) He sponsored the opening of the Hindu College and fought for the freedom of press
3) He was the first man to enunciate the rights of man
4) He cannot be called as prophet of Humanity

a) 1 and 2 b) 1, 2 and 3 c) 3 and 4 d) 1 and 3

73. Who amongst the following introduced railways for the first time in India?

a) Lord Wellesley b) Lord Hastings
c) Lord Dalhousie d) Lord Ripon

74. Which is the major cause of nutritional blindness in children usually between 1 - 3 years of age?

a) Scurvy b) Keratomalacia
c) Aneamia d) Dandruff

75. Leading cause of Diarrheal disease

a) Enterotoxigenic *Escherichia coli* b) *Salmonella*(non-typhoid)
c) Rotavirus d) Campylobacter jejuni

76. Consider the following statements:

1) National Science Day is celebrated in India on 28th February in memory of Sir CV Raman.
2) Sir CV Raman was awarded Nobel Prize in 1930 for his discovery of the Raman Effect.
3) The theme of the National Science Day of 2022 is "Integrated approach in science and technology for a sustainable future".

Which of the above statement/s is correct?

a) 1 and 2 only b) 2 and 3 only c) 1 and 3 only d) 1, 2 and 3

77. Common indicator organism of water pollution is:

a) Entamoeba histolytica b) Escherichia coli
c) Eichhornia crassipes d) Lemna paucicostata

78. Which among the following has been recently declared as the fourth Tiger reserve by the National Tiger Conservation Authority in the state of Chhattisgarh?

a) Indravati

b) Sitanadi
c) Achanakmar
d) Guru Ghasidas National Park andTamor Pingla Wildlife Sanctuary

79. According to Article 170, the maximum members of the State Legislative Assemblies which are directly elected could be:

a) 403 b) 485 c) 484 d) 500

80. A purely Indian concern founded in 1895 was:

a) Bank of Punjab
b) Punjab Insurance Company
c) Punjab National Bank
d) People's Bank

Section-II

Directions (Question Nos. 81 to 85): Read the following information carefully to answer the questions:

I. 8 Kids Neelaksh, Asmita, Ishita, Ponty, Tanu, Dodo, Navya and Rudraksh are sitting for dinner on a round table facing centre.
II. Ponty is sitting between Neelaksh and Navya.
III. Rudraksh and Dodo are sitting next to each other.
IV. Exactly one person is sitting between Tanu and Asmita.
V. Asmita is to the right of Dodo.
VI. Neelaksh is not sitting adjacent to Dodo.

81. What is the position of Ishita with respect to Navya?

a) Fourth to the right
b) Second to the right
c) Second to the left
d) Third to the left

82. Who is sitting between Neelaksh and Ishita?

a) Ponty b) Navya c) Rudraksh d) Tanu

83. In which of the following pairs, second person is sitting to the right of first person.

a) Ponty, Neelaksh
b) Dodo, Rudraksh
c) Ishita, Asmita
d) Navya, Rudraksh

84. Which of the following is correct?

a) Dodo is third to the right of Ponty
b) Asmita is second to the right of Tanu
c) Ishita is third to the right of Dodo
d) Neelaksh is second to the left of Tanu

85. Which of the following pairs is sitting next to each other?

a) Dodo, Ishita
b) Navya, Rudraksh
c) Asmita, Tanu
d) Ishita, Neelaksh

Directions (Question Nos. 86 to 89): The following table provides the details about the number of students in 5 different sports over the years.

Years	Sport				
	Cricket	Football	Basketball	Hockey	Kabaddi
2017	66	144	145	128	111
2018	121	56	100	109	149
2019	79	104	116	99	78
2020	60	57	137	150	92
2021	132	52	74	116	82

86. For which sport, total number of participants in all 5 years is second highest?

a) Kabaddi
b) Football
c) Hockey
d) Basketball

87. What is the approximate percentage of students who participated in Hockey in 2018 compared to the students participated in Cricket in the same year?

a) 111%
b) 90%
c) 43%
d) None of the above.

88. In which year was the percentage of students participating in Basketball the maximum?

a) 2017
b) 2018
c) 2019
d) 2020

89. What is the approximate percentage change in number of students participated in sports except Kabaddi in 2017 compared to that in 2020?

a) 21.67%
b) 22.89%
c) 16.35%
d) 41.32%

90. If it was Tuesday on 3rd January, 2006. What was the day on 3rd January, 2010?

a) Monday
b) Sunday
c) Wednesday
d) Tuesday

91. The data given in the following table summarizes the monthly budget of an average household.

CATEGORY	AMOUNT
FOOD	4000
CLOTHING	1200
RENT	2000
SAVINGS	1500
OTHERS	1800

The approximate percentage of the monthly budget not spent on saving is

a) 10% b) 14% c) 81% d) 86%

92. Monika and Seema both start from a point towards North. Monika turns to left after walking 10 km. Seema turns to right after walking the same distance. Monika waits for some time and then walks another 5 km, whereas Seema walks only 3 km. They both then return to their respective South and walk 15 km forward. How far is Monika from Seema?

a) 15 km b) 10 km c) 8 km d) 12 km

93. Sunil and Barry start from the same point and in the same direction at 8:00 am to walk around a rectangular field 500m x 400m. Sunil and Barry walk at the rate of 4km/h and 3km/h respectively. How many times shall they cross each other, if they continue to walk till 01: 30 pm?

a) Never b) Once c) Twice d) Thrice

94. If South- East becomes North, North- East becomes West and so on. What will West become?

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

95. Ratio of Sonu's age to Manu's age is equal to 4:3. If Sonu will be 26 years old after 6 years, the present age of Manu is

a) 11 b) 15 c) 14 d) 17

96. A train of length 150 m, moving at a speed of 90 km/hr can cross a 200 metre bridge in

a) 8sec b) 14sec c) 6sec d) 15sec

97. Prabhat gave 30% of his money to Tushar. Tushar in turn gave 2/3rd of what he receives to Jyoti. Jyoti gave Rs 100 from the money he receives to a taxi driver, then she is left with Rs 300. What was the money with Prabhat initially?

a) Rs. 2000 b) Rs. 2200 c) Rs. 2800 d) Rs. 1800

98. There are deers and peacocks in a zoo. By counting heads they are 80 and the number of their legs is 200. How many peacocks are there?

a) 30 b) 50 c) 20 d) 60

99. If 65% of a number is equal to 13/5 of another number, what is the ratio of first number to the second number?

a) 5 : 13 b) 4 : 5 c) 5 : 4 d) 4 : 1

100. Looking at a portrait of a woman, Ramesh said, "Her mother is the wife of my father's son. Brothers and sisters I have none." At whose portrait was Ramesh looking?

a) His aunt b) His Daughter c) His niece d) His cousin

101. Find the number which is different from others in the following group:
8314, 2709, 1315, 2518

a) 1315 b) 2518 c) 8314 d) 2709

102. If Rakesh distributes chocolates in the ratio of 1/3 : 1/7 : 1/2 : 1/5 between his four friends A, B, C and D, then find the minimum total number of chocolates Rakesh should have?

a) 210 b) 247 c) 420 d) 105

103. A man introduced a woman as the spouse of the only son of his grandfather's only son. How is the woman related to the man?

a) Wife b) Cousin c) Sister in law d) Sister

104. A is B's sister. C is B's mother. D is C's father. E is D's spouse. Then, how is E related to B?

a) Granddaughter b) Grand Father
c) Grandson d) Grand Mother

105. 75 people ran a race, Raghu stood 13th from the first and Vipin stood 25th from the last. How many stood between Raghu and Vipin?

a) 34 b) 35 c) 36 d) 37

106. Three partners A, B and C distribute the earnings they got after doing a particular assignment. They got an amount of Rs.1360/-. A gets 2/3rd of B's share and B gets 1/4th of C's share. What is A's share?

a) 224 b) 160 c) 254 d) 248

107. Select the one which is different from the other three responses.

a) TGSH b) CXDW c) AZBY d) EVFU

108. There are six bells in a temple which commence tolling together and toll at an interval of 2, 4, 6, 8, 10 and 12 seconds respectively. In one hour how many times do they ring together?

a) 50 b) 30 c) 31 d) 15

109. If 5 – 5 = 24 and 7 – 7 = 48 then find the value of 10 – 10 = ?

a) 56 b) 91 c) 99 d) 80

110. There are two big vessels A and B containing milk. If 10 litres of milk is poured from A to B, then the milk in both vessels is same. If 20 litres of milk is poured from B to A, then the milk in A is double of the milk in B. The milk in vessel A in litres is:

a) 100 b) 80 c) 20 d) 200

111. A student has 60% chance of passing in English and 54% chance of passing in both English and Mathematics. What is the percentage probability that he will fail in Mathematics?

a) 12 b) 36 c) 4 d) 10

112. Rahul, Prem, Shyam, Geet and Rinku are five friends among which Shyam is the tallest. Rahul is shorter than Prem but taller than Rinku. Geet is little shorter than Prem but little taller than Rahul. Who is taller than Rinku but shorter than Geet?

a) Rahul b) Rinku c) Prem d) Geet

113. A can do a piece of work in 32 days. B can do the same piece of work in 20 days. B started the work alone and A joined him later. The work was completed in 15 days. How many days more B worked than A.

a) 5 b) 10 c) 7 d) 8

114. If the English letters A to Z are written in a reverse order then what is the fourth letter to the right of 12th letter from the left?

a) J b) K
c) R d) L

115. What is mirror image of RAJASTHAN?

a) ИATHƧAᒐ AЯ b) ИAHTAƧᒐ AЯ
c) ИATAHƧᒐ AЯ d) ИAHTƧAᒐ AЯ

116. What will come next in the series: abc, dfh, ilo, ….?

a) pqr b) ptx c) prt d) psv

117. The percentage profit earned by selling an article for Rs. 5760 is equal to the percentage loss incurred by selling the same article for Rs. 3840. At what price (in Rs.) should the article be sold to make 40% profit?

a) 5760 b) 6000 c) 6720 d) 6260

118. How many numbers from 1 to 100 are there, each of which is not only exactly divisible by 4 but also has 4 as a digit?

a) 19 b) 12 c) 10 d) 7

119. A number consists of two digits; the sum of the digits is 9. If 45 is subtracted from the number its digits are interchanged. What is the number?

a) 63 b) 72 c) 81 d) 90

120. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was :

a) 2500
b) 2700
c) 2900
d) 3100

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Rough Work