DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

Booklet Serial No. 843021

Test Booklet Series

PANCHAYAT SECRETARY
OMR Examination - 2025

A

Time Allowed: 120 Minutes ***Maximum Marks: 120***

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET ***DOES NOT*** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. **Please note that it is the candidate's responsibility to encode and fill in the Roll Number, Booklet Serial No. and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.**
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside.

   DO NOT **write** ***anything else*** on the Test Booklet.
4. This Test booklet contains **120** items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the appropriate. In any case, choose ***ONLY ONE*** response for each item.
5. You have to mark all your responses ***ONLY*** on the separate Answer /Response Sheet provided. *See directions in the Response Sheet.*
6. ***All*** items carry equal marks.
7. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator ***only the Answer /Response Sheet***. You are permitted to take away with you the Test Booklet and ***Candidate's Copy of the Response Sheet*** .
8. Sheets for rough work are appended in the Test Booklet at the end.
9. While writing Centre Code and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use **"ONLY BLUE/BLACK BALL POINT PEN".**
10. **Penalty for wrong answers:**

    THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

    (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **(¼)** of the marks assigned to that question will be deducted as penalty.

    (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above for that question.

    (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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(Set - A)

1. Which railway division has jurisdiction over the Jammu-Baramulla railway line?
   A) Delhi division
   B) Firozpur division
   C) Jammu division
   D) Baramulla division

2. Which of the following statements about Indira Col, the northernmost point of India is correct?
   A) Indira Col is located in the Zanskar Range and was named in 1947 after India's independence .
   B) Indira Col is a mountain pass in the Siachen Muztagh, in the Karakoram Range.
   C) There is only one Indira Col in the region, which was named after the goddess Lakshmi in 1950.
   D) Indira Col lies at an altitude of 6,000 meters and is the highest peak in Jammu and Kashmir.

3. Ponni rice is mainly grown in which state of India?
   A) Tamil Nadu
   B) Karnataka
   C) Punjab
   D) Maharashtra

4. Which of the following statements about Shyama Prasad Mukherjee Tunnel in Jammu & Kashmir is/are correct?
   1. It is India's longest road tunnel with a length of 9.28 km.
   2. The tunnel is located on the lower Himalayan range at an altitude of 1,200 m (3,937 ft).
   3. The tunnel connects Udhampur and Ramban in Jammu & Kashmir.

   Choose the Correct Option:
   A) 1 and 2
   B) 1 and 3
   C) 2 and 3
   D) 1, 2 and 3

5. Chenab Rail Bridge in Jammu & Kashmir is built between which railway stations?
   A) Sangaldan and Reasi
   B) Bakkal and Katra
   C) Udhampur and Srinagar
   D) Banihal and Katra

6. Which of the following is NOT the major tribe of Rajasthan?
   A) Bhil Tribe
   B) Gond Tribe
   C) Damor Tribe
   D) Kothari Tribe

7. With reference to the lakes of Jammu & Kashmir, which of the following matches are NOT correct?
   A) Dal Lake - Located in Srinagar and known for its houseboats and floating gardens.
   B) Pangong Lake - A saltwater lake that lies partially in India and partially in China.
   C) Wular Lake - The largest freshwater lake in India, located in Bandipora, Jammu & Kashmir.
   D) Manasbal Lake - located in Srinagar, Jammu & Kashmir, is called the " Jewel in the crown of Kashmir".

8. What does "consumer sovereignty" in a free market economy refer to?
   A) The government's ability to control consumer preferences .
   B) Producer's decision about production of goods and services based on their preferences.
   C) Consumer preferences guide the production of goods and services.
   D) Consumers and producers equally share the decision-making process.

9. Which of the following statements about Brihadeshwara temple is/are correct?
   I. The temple is located in Thanjavur, Tamil Nadu, on the south side of the Vaigai river.
   II. Large statue of Nandi (the holy bull) carved from a single rock, measuring approximately 16 feet long and 13 feet high is placed at the temple 's entrance.
   III. The temple is dedicated to worship of goddess Kali.

   Choose the Correct Statement:

   A) Only II
   B) Only I & II
   C) Only I & III
   D) Only II & III

10. Which of the following leaders was NOT associated with the Quit India Movement?
   A) Aruna Asaf Ali
   B) Ram Manohar Lohia
   C) B.R. Ambedkar
   D) Jayaprakash Narayan

11. Match the following Pairs:

Part of the Indian Constitution	**Subject mentioned in the part**
i) Part IV	1) Fundamental Duties
ii) Part IV A	2) Emergency Provisions
iii) Part XVII	3) Directive Principles
iv) Part XVIII	4) Official Languages

   Choose the Correct Option:

   A) i-3 , ii-1, iii-4, iv-2
   B) i-1, ii-4, iii-2, iv-3
   C) i-3 , ii-2, iii-4, iv-1
   D) i-1, ii-3, iii-2, iv-4

12. What was the primary objective of the PSLV-C59 mission launched by ISRO on December 5, 2024?
   A) To launch communication satellites into geostationary orbit.
   B) To carry the Proba-3 spacecraft into a highly elliptical orbit.
   C) To deploy weather monitoring satellites into lower orbit of earth.
   D) To test the reusability of the PSLV launch vehicle.

13. Which of the following statements is correct regarding the ice-albedo feedback in climate change?
   A) Ice-albedo feedback results in higher solar energy absorption when ice caps melts
   B) Ice-albedo feedback leads to an increase in the surface temperature as ice covers more area.
   C) Ice-albedo feedback causes ice formation on earth.
   D) Ice-albedo feedback causes melting of ice caps on earth.

14. Which was the first Neolithic site discovered in Kashmir?

A) Burzahom
B) Mehargarh
C) Nunar
D) Chirand

15. Which sector is the primary contributor to Jammu and Kashmir's economy?

A) Agriculture
B) Manufacturing
C) Services
D) Mining

16. Match the places in Jammu with their corresponding traits:

Places in Jammu	**Traits**
i) Dogra Art Museum	1) Two-storeyed palace has courtyard-facing walls decorated with arches and some murals.
ii) Amar Mahal Palace	2) Has special collection of Basohli paintings.
iii) Akhnoor Fort	3) Has eight octagonal towers or turrets connected by thick walls.
iv) Bahu Fort	4) Built in the nineteenth century by a French architect on the lines of a French Chateau.

Choose the Correct option:

A) i- 1, ii-2, iii-3, iv-4
B) i-2, ii-4, iii- 1, iv-3
C) i-4, ii-2, iii- 1, iv-3
D) i-3, ii-4, iii-2, iv-1

17. Match the climate codes with their corresponding regions of Jammu and Kashmir, according to Koppen's classification:

Climate codes	**Regions**
i) Dfb	1) Jammu
ii) Cwa	2) Ladakh
iii) Dwd	3) Kashmir

Choose the Correct option:

A) i-1, ii-2, iii-3
B) i-3, ii-1, iii-2
C) i-3, ii-2, iii-1
D) i-2, ii-1, iii-3

18. What is the scientific name of the Himalayan brown bear, found in the higher reaches of Jammu and Kashmir?

A) Ursus maritimus
B) Ursus arctos isabellinus
C) Ailuropoda melanoleuca
D) Melursus ursinus

19. Consider the following matches about the fundamental rights of India:

I. Right to Equality -Article 14-18
II. Right to Freedom of Religion - Article 25-28
III. Cultural and Educational Rights- Articles 23 -24
IV. Right to Constitutional Remedies- Articles 29 - 30

Which among the above is /are correct matches?

A) Only I, II & III
B) Only II, III & IV
C) Only I & II
D) Only III

20. Which of the following statements about Dumhal dance is/are correct?

I. It is a traditional dance performed by the Watal tribe in the Indian region of Jammu and Kashmir.

II. Women perform the dance in groups of two or four, facing each other and holding hands.

III. Performers wear long, colorful robes and tall conical caps adorned with beads and shells.

Choose the Correct Statement:

A) Only III
B) Only I & II
C) Only I & III
D) All of the above

21. Consider the following statements.

I. To safeguard public property and to abjure violence.

II. To promote harmony and the spirit of common brotherhood among all people of India.

III. To develop scientific temper, humanism, and the spirit of inquiry and reform.

IV. To ensure equal pay for equal work for both men and women.

Which of the above are Fundamental Duties under Article 51 A?

A) Only I and II
B) Only II and III
C) Only II, III and IV
D) Only I, II and III

22. Match the different types of taxes in India with their corresponding impositions:

Different types of taxes		**Imposition of tax**
i) Income Tax	1)	Levied on the import and export of goods
ii) Central Goods and Service Tax(CGST)	2)	Levied by the central government on the intrastate movement of goods and services.
iii) Customs Duty	3)	Levied when there is an inter-state transfer of goods and services.
iv) Integrated Goods and Services Tax(IGST)	4)	Levied on the income of individuals and organisations.

Choose the Correct Option:

A) i-4 , ii- 1, iii-2, iv-3
B) i-3 , ii-1, iii-4, iv-2
C) i-4, ii-2, iii-1, iv-3
D) i- 1 , ii-3, iii -2, iv-4

23. After the reorganization of Jammu and Kashmir in 2019, The Union Territory Ladakh, does not have a legislative assembly. Which of the following is true regarding its governance?

A) It has a Chief Minister
B) It is governed by the state and central government
C) It is directly governed by a Governor
D) It is governed by a Lieutenant Governor.

24. Which of the following is NOT the objective of Swachh Bharat Mission (SBM)?

A) Achieving 100% Open Defecation Free (ODF) status

B) Ensuring 100% scientific Solid Waste Management

C) Behaviour change through 'Jan Andolan.

D) To clean all rivers by 2025.

25. Select the most appropriate option to substitute the underlined segment in the given sentence.

The house has auctioned before we reached there.

A) had auctioned

B) had been auctioned

C) was auctioned

D) has been auctioned

26. In this question, the sentence is broken into four parts. Find out the error part in the sentence from the given options and mark your answer.

No struggle can ever succeeded without women participating side by side with men.

A) No struggle can ever succeeded

B) without women participating

C) side by side with men

D) No error

27. Out of the four choices suggested, select the one which best expresses the below sentence in passive voice.

The burglar destroyed several items in the room. Even the carpet has been torn.

A) Several items are destroyed in the room by the burglar. Even the carpet has been torn.

B) Several items in the room were destroyed by the burglar. Even the carpet was torn.

C) Including the carpet, several items in the room have been torn by the burglar.

D) The burglar destroyed several items in the room, also carpet has torn.

28. Fill in the blank using a suitable modals:

We ..... be honest under all circumstances. If we work hard, we.....pass.

A) should, would

B) must, would

C) would, will

D) must, will

29. In this question, the sentence is broken into four parts. Find out the error part in the sentence from the given options and mark your answer.

These days rich people only can afford the hospitality of the costly nursing homes and hospitals coming up all over the country.

A) These days rich people only

B) can afford the hospitality of the costly

C) nursing homes and hospitals coming up all over the country

D) No error.

30. Fill in the blank using meaningful words:
The whole country was _____with forests and swamps. The _____part of it was very misty and cold.

A) made, major
B) covered, greater
C) full, other
D) filled, other

Read the following passage carefully and answer the Questions No.'s 31 to 33:

Ernest Rutherford was the son of a Scot emigrant to New Zealand Ernest Rutherford was born on 30 August 1871 in Brightwater, a town near Nelson, New Zealand. His parents had 12 Children, of whom Ernest was the fourth.

His education was in a state primary school from which children at the age of 13 could get grants of scholarships to secondary schools and to the universities. Rutherford had no intention of following an academic career. He was no book-worm.He was good in any rough and tumble game and a keen football player. But he was good at Latin and he had a passion for music and a mechanical bent of mind. At Nelson College, a state boarding school, he was an outstanding pupil. He sat for a scholarship to Canterbury College and this was because his masters expected it of him and he won it. There, Rutherford as a student was fascinated by Hertz's work on radio waves and he began to conduct his own experiments in the cloakroom of the college, where the students hung their gowns. He was awarded the Nobel Prize in Chemistry for his investigations into the disintegration of the elements and the chemistry of radioactive substances.

31. Rutherford carried out his own private experiments in
A) Some corner of the cloakroom of Nelson College
B) In the Cloakroom of Canterbury College
C) A corner of the room allotted to him in the boarding house
D) In the laboratory of Nelson College

32. The Phrase 'mechanical bent' suggests that Rutherford's
A) The mind was mechanical.
B) Was devoid of human warmth, emotion, intelligence etc.
C) Lived thoughtlessly as a machine.
D) Had an aptitude for science especially chemistry.

33. Identify the correct statement
A) Rutherford was an abnormal child.
B) Rutherford was an outstanding pupil and a Nobel Prize winner.
C) Rutherford was interested in art and painting.
D) Rutherford was passionate about an academic career.

34. Fill in the blanks by selecting the correct pronouns from the options that follow.
He told me his address_____I wrote down in a note-book.
A) when
B) where
C) which
D) this

35. Pick out the clause in the following sentence:
I do not know whether he will come tomorrow.
A) I do not know
B) whether he will come tomorrow
C) I do not know whether
D) he will come tomorrow

36. Select the antonym of the underlined word in the below sentence and mark your response accordingly.
The bill received a vehement resistance from the opposition party in the Parliament.
A) animated
B) apathetic
C) fervent
D) vigorous

37. Choose the most appropriate pair of words from the options given below to complete the following sentence.
There were screams, chills and thrills.....at the discotheque the other night as the director along with the producers hosted a party to .....the success of their latest horror flick.
A) combined, downplay
B) alike, mourn
C) risen, generate
D) galore, celebrate

38. Given below are four scattered segments of a sentence. Indicate the correct sequence which correctly assembles the segments and completes the sentence.
P. agreed to a ceasefire today
Q. in which 51 people were killed
R. after a week of fighting
S. georgian loyalists and rebel forces
The correct sequence should be
A) PQRS
B) PSRQ
C) RQSP
D) QRPS

39. Given below an idiom/phrase, which of the four alternatives conveys the most appropriate meaning.
A banana republic
A) A big or rich country with a strong government.
B) A country which has been occupied by a big country.
C) A small or poor country with a weak government.
D) A country which produces a lot of bananas.

40. Given below an idiom/phrase, which of the four alternatives conveys the most appropriate meaning.
A cock and bull story
A) Absurd and unbelievable.
B) Very strong and opinionated.
C) Very irrational and evil.
D) Uninteresting and unimaginative.

41. Fill in the blanks with appropriate prepositions from the alternatives given below.
Disintegration of the country is inimical.....the progress of the people.
A) to
B) for
C) with
D) upon

42. A sentence has been given in passive voice. Out of the four alternatives suggested below, select the one which best expresses the same sentence in active voice.
Why was the thief being chased by the boy?

A) By the boy why was the thief being chased?
B) Why did the boy chased the thief?
C) Why the boy was chasing the thief?
D) Why was the boy chasing the thief?

43. Below sentence is divided into parts using Alphabets (a, b, c & d). Find out whether there is any grammatical error in any part of the sentence and indicate your response against the corresponding part.
She gave me (a)/two important pieces of informations (b)/I had been waiting for (c)/the last two months (d)

A) She gave me
B) two important pieces of informations
C) I had been waiting for
D) the last two months

44. Out of the four options, select the grammatically correct sentence.

A) You cannot win my confidence without ever believing me.
B) You cannot win my confidence without never believing me.
C) You cannot win my confidence without believing me.
D) You cannot win my confidence with ever believing me.

45. Out of the four options, select the grammatically correct sentence.

A) The report was useless to them because there was no needed information.
B) Since the report lacked needed information it would have not been useful to them.
C) Since the report did not control the needed information it was not really useful to them.
D) Since the report lacked the needed information it was of no use to them.

46. In this question, choose the alternative bearing the correct spelling.

A) Continuum
B) Continuem
C) Continueem
D) Continueiam

47. In this question, choose the alternative bearing the correct spelling.

A) Psudonym
B) Pseudonym
C) Pseudanym
D) Pseeudonym

48. Pick the correct homophone for the given sentences.
Raman was _____ by the English King.

A) nighted
B) nighed
C) knighted
D) knighed

49. What should come in the place of (?) in the given series?
66, 116, 198, 320, ?, 716
A) 495 B) 480
C) 490 D) 500

50. Choose the missing terms in the given alphabetical series.
WYV, ?, IKH, BDA
A) PRO B) ROP
C) OPR D) OQN

51. Choose the correct alternative from the given ones that will complete the series.
Isobar, Arrest, State, Teapot, Otter?
A) Pencil B) Tongue
C) Erect D) Meter

52. A person is travelling on his cycle. If he is travelling at 10 kmph, he will reach point A at 4 P.M. He will reach there (point A) at 2 P.M., if he travels at 15 kmph. At what speed must he travel to reach A at 3 P.M.?
A) 8 km/h B) 12 km/h
C) 11 km/h D) 14 km/h

53. Question given below consists of a statement, followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument and which is a 'weak'argument.
STATEMENT
Is the phased privatization approach for Indian railways similar to other public sector enterprises a viable option?
ARGUMENTS
I. Yes, privatization can enhance competitiveness and improve service quality, though it is not the sole approach to achieve these goals.
II. No, privatization may result in the inefficient use of resources.
Choose the Correct Option:
A) Only Argument I is strong
B) Only Argument II is strong
C) Neither I nor II is strong
D) Either I or II is strong

54. If "*" is called "+", "/" is called "*", "-" is called "/", "+" is called "-".
40/60 - 15 * 30 + 25 is equal to
A) 165 B) 170
C) 175 D) 150

55. In a code language, FRIEND is written as GQJDOC. How will PEACE be written in that language?
A) QFBBF B) ODBBF
C) QDBDF D) QDBBF

56. How many meaningful words can be formed with a different combination of the letters of "FRIEND" using each letter only once in each word?

A) 3 B) 5

C) More than 6 D) 4

57. If > denotes +, < denotes -, + denotes ÷, # denotes x, - denotes =, x denotes > and = denotes <. Choose the correct statement of the following.

A) $54 + 6 \# 2 = 6 \# 4 + 2$ B) $18 > 7 \# 6 + 6 = 3 \# 4$

C) $9 > 5 > 4 - 18 + 9 > 16$ D) $9 \# 3 < 2 - 1 \times 16 \# 2$

58. Find out the alternative which will replace the question mark.

49 : 2400 :: 59 : ?

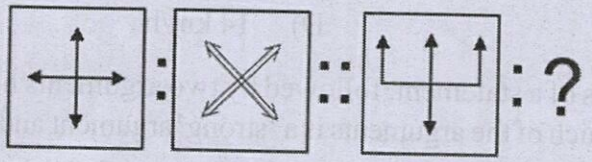
A) 3480

B) 3482

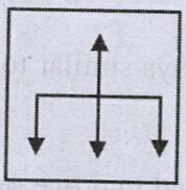
C) 8342

D) 3842

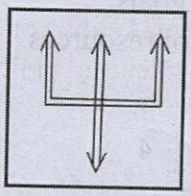
59. Select the related shape from the given option.



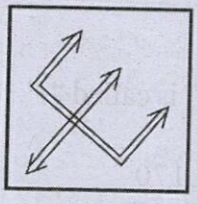
A)



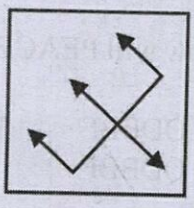
B)



C)



D)



60. In this question, four words have been given, out of which three are alike in some manner and the fourth one is different. Choose out the odd one?

A) Conjecture B) Surmise
C) Speculate D) Terrible

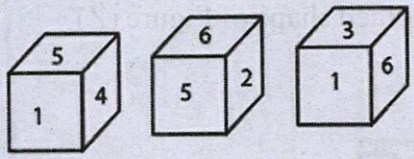
61. Which pair of numbers does not belong to the group?

A) 7, 9, 10 B) 13, 36, 7
C) 5, 25, 10 D) 11, 16, 8

62. There are 3 departments in a college-Physical Sciences, Humanities and Commerce. There are 125 Students in the Physical Sciences department. The number of students in the Humanities department is $1/5^{th}$ of the Physical Sciences department students. The Commerce department has 20 students less than the total number of students in the Physical Sciences and Humanities department together. What is the total number of Students studying in the three departments?

A) 380 B) 280
C) 480 D) 400

63. Three different positions of the same dice are shown below. Which symbol is on the face opposite the 3?

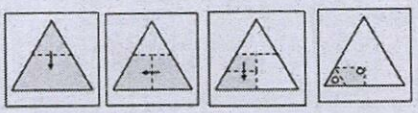


A) 4 B) 6
C) 2 D) 5

64. In a class of 40 students, 20 have chosen Mathematics, 15 have chosen mathematics but not biology. If every student has chosen either mathematics or biology or both, find the number of students who choose both mathematics and biology.

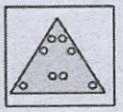
A) 5 B) 7
C) 6 D) 4

65. A triangular sheet of paper has been folded and punched as shown below. How will it appear when opened?



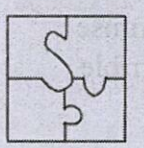
A) 

B) 

C) 

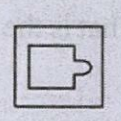
D) 

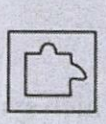
66. Which of the following piece will fit in the figure given below?



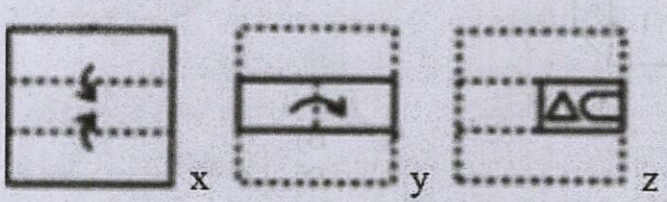
A) 

B) 

C) 

D) 

67. Select the figure that best resembles the unfolded shape of Figure (Z)



A) 

B) 

C) 

D) 

68. In this question, an address of the city is given followed by four alternatives. Out of four alternatives three have some mistakes while one has no mistakes. Identify the alternative with no mistake.

Indiranagar, 10th Cross Road, Hoysala Nagar, Indira Nagar, Bangalore, Karnataka 560038, India

A) Indiranagar, 10th Cross Road, Hoysala Nagar, Indra Nagar, Bangalore, Karnataka 560038, India

B) Indiranagar, 10th Cross Road, Hoysaala Nagar, Indira Nagar, Bangalore, karnataka 560038, India

C) Indranagar, 10th Cross Road, Hoysala Nagar, Indira Nagar, Bangalore, Karnataka 560038, India

D) Indiranagar, 10th Cross Road, Hoysala Nagar, Indira Nagar, Bangalore, Karnataka 560038, India

Questions No.'s 69 to 72 follows the same data as given below.

Serial number of candidates registered at different centres for an examination is given in below table. Each serial number consists of six digits, where the most significant two digits represent centre code and least significant four digits represent the roll number.

Serial number of Candidates

174930	384610	686748	674718
338961	151893	718445	538460
684264	483740	848361	945964
539147	687096	645368	888727
890613	656823	398620	736816
251564	684234	845410	420836

69. Find the roll number that belongs to the centre code '38'?

A) 9147 B) 4610

C) 8460 D) 8961

70. Which of the following centres has the maximum number of candidates?

A) 33 B) 68

C) 84 D) 94

71. In the above data how many unique centres are listed?

A) 19 B) 18

C) 21 D) 24

72. In a certain code language, 'BEHOLD' is written as 'bdehlo' and 'INDEED' is written as 'ddeein'. How will 'COURSE' be written in that language?

A) cerosu B) ceorus

C) ceosur D) ceorsu

73. The greatest 5 digit number which is exactly divisible by 85 is

A) 99999 B) 99980

C) 99960 D) 99985

74. Eiffel tower's $1/5^{th}$ part is painted bronze. $1/4^{th}$ of the remaining part is painted maroon. Rest of the Eiffel tower has a golden color. If the height of this golden colored part is 450m, what is the Eiffel towers' height?

A) 2250 m B) 1350 m

C) 1000 m D) 750 m

75. A shopkeeper gains a profit of 15% on selling a book at 20% discount on the printed price. The ratio of the printed price and cost price of the book is ?

A) 20:23 B) 23:20

C) 23:16 D) 16:23

76. In diwali sale, 25% off on electric choppers. Sudha went to buy an electric chopper. She also got a 10% discount for paying cash. She paid Rs.405. What is the price tag (in Rs.) on the electrical chopper?

A) 575 B) 625

C) 500 D) 600

77. Ram works at a rate such that he can complete a work in 12 days, working 7 hours a day. However, Shyam works at rate such that he can complete a work in 8 days, working 9 hours a day. If Ram and Shyam work together, working 7 hours a day. In how many days they can complete the work?

A) 21/23 B) 72/13

C) 504/13 D) 36/11

78. The present ratio of brother and sister age is 6:7. However, 12 years age the ratio was 3:4. Find the sum of the present ages (in years) of brother and sister.

A) 24 B) 52

C) 28 D) 50

79. Square root of $\frac{0.081}{0.0064} \times \frac{0.484}{6.25} \times \frac{2.5}{1.21}$

A) 0.34 B) 4.5

C) 0.45 D) 3.4

80. A sum becomes 27 times of its original value in 3 years when compounded annually at a certain rate of interest. Calculate the annual interest rate.

A) 150% B) 100%

C) 300% D) 200%

81. If $x = \sqrt{5} + 2$, then find the value of $x^3 - \frac{1}{x^3}$

A) 65 B) 60

C) 76 D) 52

82. If the equations $28x + 8y + 15 = 0$ and $42x - ky - 21 = 0$ have no solution, then the value of k is :

A) 12 B) 8

C) -12 D) -8

83. Triangle ABC inscribed in a circle with centre O. If AB = 17 cm, BC = 10 cm and AC = 9 cm, Find the area of the triangle ABC.

A) 18 cm^2

B) 36 cm^2

C) 10 cm^2

D) 50 cm^2

84. In an equilateral triangle ABC, P is the centroid of this triangle. Side of the triangle ABC is $16\sqrt{3}$ cm. What is the distance of point P from side BC?

A) 8 cm

B) 12 cm

C) 9 cm

D) 10 cm

85. In a circle with centre O, a diameter AB is produced to a point P lying outside the circle and PT is a tangent to the circle at a point C on it. If angle BPT = 28°, then what is the measure of angle BCP?

A) 28°

B) 62°

C) 31°

D) 45°

86. In a right circular cone, the radius of the base is 14 cm and the height is 48 cm. A cross-section is made through the midpoint of the height parallel to the base. The volume of the upper portion of cone is (Take $\pi = 22/7$)

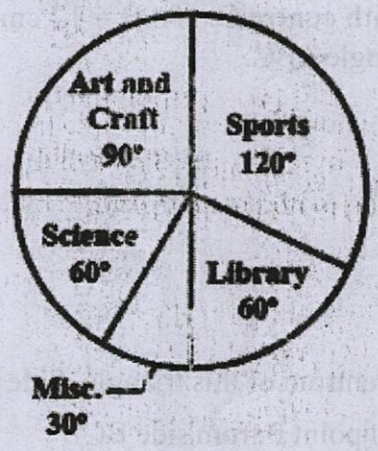
A) 1584 cm^3

B) 1232 cm^3

C) 3696 cm^3

D) 1442 cm^3

87. The pie chart shows how the school fund is spent under different heads in a certain school. Using the pie chart, answer the questions.



If the total expenditure of the school was 90 lakh, then what percent of the money is spent on Arts and Craft to that of money spent on Sports?

A) 75%

B) 70%

C) 60%

D) 65%

88. If $\cos\theta = \frac{8}{17}$ and θ lies in the first quadrant. Find the value of

$\cos(30+\theta)+\cos(45-\theta)+\cos(120-\theta)$ is

A) $\frac{23}{17}\left(\frac{\sqrt{3}-1}{2}+\frac{1}{\sqrt{2}}\right)$

B) $\frac{23}{17}\left(\frac{\sqrt{3}+1}{2}+\frac{1}{\sqrt{2}}\right)$

C) $\frac{23}{17}\left(\frac{\sqrt{3}-1}{2}-\frac{1}{\sqrt{2}}\right)$

D) $\frac{23}{17}\left(\frac{\sqrt{3}+1}{2}-\frac{1}{\sqrt{2}}\right)$

89. The wheel makes 12 revolutions in one minute. Find the angle (in radian) described by the spoke of the wheel in 1 second

A) $2\pi/3$

B) $2\pi/7$

C) $2\pi/5$

D) $3\pi/5$

90. The volume of the pyramid with a square base is 250 cm^3. The height of the pyramid is 30 cm. What will be the length of the slant edges (i.e. the distance between the apex and any other vertex), rounded to the nearest integer?

A) 29 cm

B) 30 cm

C) 31 cm

D) 35 cm

91. Which of the following is an efficient method to update hardware cache in a CPU?

A) Write back

B) Write through

C) Write within

D) Buffered write

92. What is the full form of WAN?

A) Wide Area Network

B) Wide Access Network

C) Window Area Node

D) Window Access Node

93. What is the difference between a hard disk drive and a solid-state drive?

A) A hard disk drive uses flash memory to store data, while a solid-state drive uses spinning disks to store data.

B) A hard disk drive is faster than a solid-state drive.

C) A hard disk drive requires more area than a solid-state drive.

D) A hard disk consumes less power than a solid-state drive.

94. Which of these is a volatile memory in a computer system?

A) ROM B) SSD

C) RAM D) Hard Disk

95. Which of the following memory is used for storing software that does not need updates?

A) Flash Memory B) ROM

C) SRAM D) DRAM

96. Workbook in computer application is basically related to

A) MS Excel B) Adobe Reader

C) MS Power Point D) MS word

97. The windows sound file has the extension

A) .sit B) .wpd

C) .wav D) .dif

98. Which of the following statement is correct about RAM and ROM?

A) RAM is used to store programs, while ROM is used to store data.

B) RAM is a volatile memory, while ROM is a non-volatile memory.

C) RAM is used to store data, while ROM is used to store instructions.

D) RAM is a permanent memory, while ROM is a temporary memory.

99. What is the difference between a file and a folder in a Windows Computer?

A) A file is a physical object, while a folder is a logical object.

B) A file can only be opened by one program, while a folder can be opened by multiple programs.

C) A file can contain multiple folders, a folder can't contain multiple files.

D) A file is a unit of data, while a folder can contain multiple files.

100. Which of the following input devices converts bitmap images of characters to equivalent ASCII codes?

A) Scanner

B) OMR

C) OCR

D) Biometric device

101. A region of computer memory where frequently accessed data can be stored for rapid access is called

A) Cache

B) Swap

C) Cookie

D) Plug-in

102. Which of the following best represents computer hardware?

A) All devices used to input data into a computer

B) Sets of instructions that a computer runs or executes

C) All devices involved storing information such as memory and storage

D) The computer and all the devices connected to it that are used to input and output data

103. A set of information that defines the status of resources allocated to a process is

A) Process control block

B) Process table

C) Page table

D) Process description

104. In negative logic, the logic state 1 corresponds to

A) negative voltage

B) high voltage

C) zero voltage

D) high impedance

105. A directory within a directory is called a _____.

A) Mini Directory

B) Junior Directory

C) Senior Directory

D) Sub Directory

106. Which of the following is an advantage of 'proprietary' software?

A) Regular updates provided by professionals
B) Support of a community of enthusiasts
C) Low cost
D) Source code is available, so it can be customised easily

107. Which of the following is not a point and draw device?

A) Trackball
B) Touch screen
C) Mouse
D) Keypad

108. What is gutter margin?

A) Margin that is added to the left margin when printing
B) Margin that is added to the binding side of the page when printing
C) Margin that is added to the outside of the page when printing
D) Margin that is added to the right margin when printing

109. Which of the following function in excel counts the numbers of Characters in a cell?

A) LT
B) LENGTH
C) LGT
D) LEN

110. What is Microsoft access application

A) It is an application to generate charts and graphics
B) It is an application used for generating animations
C) It is a picture drawing software
D) It is an database management software

111. Which of the following is a cloud-based version of Microsoft Office?

A) MS Office Suite
B) Microsoft 365
C) MS Office 2019
D) MS Office 2016

112. A system for transferring web documents that defines how messages are formatted and transmitted over internet is

A) World Wide Web
B) Uniform Resource Locator
C) Hypertext Transfer Protocol
D) Hyper Transformed Text Publisher

113. Which of the following infects the master boot record and is a complex task to remove this virus.

A) Polymorphic
B) Multipartite
C) Boot Sector Virus
D) Trojans

114. Which of them is NOT an ideal way of spreading the virus?

A) Infected website
B) Emails
C) Official Antivirus CDs
D) USBs

115. Spreadsheets in computer cannot

A) do calculations
B) create graphics
C) plot graphs
D) plot charts

116. A graphics method in which one object is transformed into another.

A) Animation
B) Morphing
C) Designing
D) graphics art

117. The process of verifying the identity of a user.

A) Authentication
B) Identification
C) Validation
D) Verification

118. A unique piece of information that is used in encryption.

A) Cipher
B) Plain Text
C) Key
D) A prime number

119. Which of the following information security technology is used for avoiding browser based hacking?

A) Anti-malware in browsers
B) Remote browser access
C) Adware remover in browsers
D) Incognito mode in a browser

120. Which of these is not a proper solution to maintain confidentiality?

A) Biometric verification
B) ID and password based verification
C) 2-factor authentication
D) Switching off the phone

ROUGH WORK