Question Papers

1. Identify the correct code of matching:

Column A Compound	Column B Oxidation Number of N
a) NH_3	e) -2
b) NO	f) $+2$
c) NO_2	g) -3
d) N_2H_4	h) $+4$

	a	b	c	d
A.	g	f	h	e
B.	g	h	e	f
C.	f	h	g	e
D.	e	f	g	h

2. Match List I of ores with List II of metals and select the correct answer using the codes given below list.

List – I	List - II
a) Cinnabar	1) Lead
b) Galena	2) Copper
c) Calamine	3) Mercury
d) Malachite	4) Zinc

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

3. Match List I with List II and select the correct answer using the codes given below list.

a) Sindri fertilizer	1) $Ca(NO_3)_2NH_4NO_3$
b) Nangal fertilizer	2) NH_2CONH_2
c) Nitrolim	3) $(NH_4)_2SO_4$
d) Carbamide	4) $CaCN_2$

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

4. Match List I with List II and select the correct answer using the codes given below list.

List – I	List - II
a) Nylon-6,6	1) Isoprene
b) Bakelite	2) Condensation polymer
c) Teflon	3) Tetrafluoro ethylene
d) Natural rubber	4) Thermosetting polymer

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

5. Which of the following statement is wrong? I. Robert Hooke discovered the cells. II. Robert Brown coined the term nucleus III. Mitochondria are the sites of cellular respiration IV. The two subunits of 80s ribosome are 50s and 30s

1) I
2) II
3) III
4) IV

6. Which of the following is NOT relavent to catabolism?
1) Glycolysis
2) Krebs cycle
3) Oxidative phosphorylation
4) Calvin cycle

7. Which of the following fungus produce basidospore?
1) Agaricus
2) Aspergillus
3) Mucor
4) Peziza

8. Corpora cardiaca are the principle neurohaemal organs situated posterior to the-

1) Kidneys
2) Heart
3) Brain
4) Adrenal gland

9. Which of the following hormone is secreted by acidophilic cells?
1) Thyroid stimulating hormone (TSH)
2) Follicle stimulating hormone (FSH)
3) Luteinizing hormone(LH)
4) Growth hormone(GH)

10. Centrioles are involved in-
1) Storage
2) Energy transfer
3) Cell division
4) Protein synthesis

11. Peristalsis is:
1) Absorption of food materials
2) Muscular contraction of alimentary canal
3) Reabsorption of water
4) Elimination of waste

12. If a particle could move with the velocity of light, the value of its kinetic energy would be-

1) zero
2) 0.5 C
3) C
4) ∞

13. Size of a nucleus depends on-
1) Number of neutrons
2) Number of protons
3) Number of nucleons
4) Number of nucleons and electrons

14. Match the following:

a) Amp-m^2	1) Current density
b) Newton/amp-metre	2) Magnetic flux density
c) Coulomb/m^2	3) Electric displacement
d) Amp/m^2	4) Magnetic displacement

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

15. A person is sitting in a travelling train and facing the engine. He tosses up a coin and the coin falls behind him. It can be concluded that the train is:

1) Moving backward with uniform speed
2) Moving forward with uniform speed
3) Moving forward and suddenly losing speed
4) Moving forward and suddenly gaining speed

16. Which pair of the following were NOT the Extremists?

1) M.G. Ranade and Bala Gangadhar Tilak
2) Surendranath Banerjee and Lala Lajpat Rai
3) Gokhale and M.M Malviya
4) Sardar Ajit Singh and B.C. Pal

17. Match the following:

Race	Group
a) Caucasoid	1) Red
b) Mongoloid	2) Black
c) Asian American	3) White
d) Negroid	4) Yellow

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

18. Match List I with List II and select the correct answer using the codes given below list.

List-I Forest Type	List-II Tree
a) Coniferous	1) Teak
b) Temperate forest	2) Rose wood
c) Tropical monsoon	3) Pine
d) Tropical evergreen	4) Poplar

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

19. Choose the right answer:

Rocks	Types
1) Igneous	a) Sand stone
2) Sedimentary	b) Quartzite
3) Metamorphic	c) Gypsum
4) Chemically formed rock	d) Batholiths

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

20. Identify the coastal land forms features from the diagram
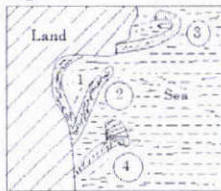
A.	1-Tombolo, 2-Lagoon, 3-Sandbar, 4-Spit
B.	1-Lagoon, 2-Sandbar, 3-Spit, 4-Tombolo
C.	1-Sandbar, 2-Spit, 3-Tombolo, 4-Lagoon
D.	1-Spit, 2-Tombolo, 3-Lagoon, 4-Sandbar

21. Consider the following statement 1. Rafal Nadal won men singles French Open Tennis tournament 2013. 2. This is the statement given above is/are correct.

1) 1 only
2) 2 only
3) Both 1 and 2
4) Neither 1 nor 2

22. Where is Lakshmibai National Institute of Physical Education(LNIPE) located?

1) Gwalior
2) Nagpur
3) Vadodra
4) Meerut

23. When was the Head Quarters Integrated Defence Staff(HQIDS) started?

1) 2000
2) 2001
3) 2002
4) 2003

24. How many member states are there in the European Union(EU)?

1) 25
2) 26
3) 27
4) 28

25. Bandung Conference of 1955 paved the way for-

1) Non-Aligned movement
2) India's friendship treaty with Indonesia
3) Trade Agreement between India and Indonesia
4) Nuclear Agreement between India and Indonesia

26. **What is Yetterbium?**

   1) Atomic clock   2) Sand clock
   3) Spril clock   4) Sundial

27.

Match the following with reference to India's relations with her neighbours.	
I) Shared vision for the 21st century	a) Afghanistan
II) Textiles arts from the land of peaceful dragon	b) China
III) Salma dam	c) Bhutan
IV) Sunkosi storage cum diversion scheme	d) Nepal

	I	II	III	IV
A.	c	b	d	a
B.	d	c	a	b
C.	b	c	a	d
D.	b	a	c	d

28. **Consider the following commissions: 1) Dinesh Goswami Committee 2) National Commission 3) Indirajit Gupta Committee Which one of the following is the correct chronological order of the above?**

   1) 1-2-3   2) 1-3-2
   3) 2-3-1   4) 2-1-3

29. **World's first intelligent knife is used to detect-**

   1) Thyroid disease   2) Kidney disease
   3) Cancer   4) Tuberculosis

30. **Consider the following statement and find out the correct answer. Assertion : India has passed the Weapons of Mass Distribution(WMD) act in 2005. Reason: It criminalises the trade and brokening of sensitive technology.**

   1) Both A and R are true and R is the correct   2) Both A and R are true but R is not a correct
   explanation of A.   explanation of A.
   3) A is true but R is false   4) A is false but R is true

31. **Which section of the representation of People Act had declared as unconstitutional by the Supreme Court in 2013?**

   1) Section 8(4)   2) Section 9(4)
   3) Section 4(8)   4) Section 4(4)

32.

Arrange in sequential order.			
1. Government			
2. Territory			
3. Sovereignty			
4. Population			

A.	2	4	3	1
B.	4	2	1	3
C.	4	1	2	3
D.	3	2	1	4

33.

Match the following:

a) GaribiHatao	1) Women's welfare
b) MahilaKalyan	2) Social security
c) YuvaVikas	3) Poverty eradication
d) SamarikSuraksha	4) Youth Development

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

34. Who wins the 2013 Australian Open Men's singles title?

1) Noval Djokovic
2) Andy Murray
3) Rafael Nadal
4) David Ferrer

35. Consider the statements: I. Ela Bhatt has been chosen for the Niwano Peace Prize. II. Ela Bhatt setup the "SEWA" union in 1972. III. Lee Myung-Bak the South Korean Premier was the Chief guest at India's 62nd Republic day IV. Liaquat Ahamed received history Pulitzer prize for his book " Lords of Finance". Of the statements:

1) I is correct
2) II is correct
3) I, II and IV are correct
4) I and III are correct

36. Which one of the following is NOT correctly matched?

1) XVI Non-aligned movement summit - Tehran
2) 5th BRICS Summit - Durban
3) G-20 Summit - Los Cabos
4) 4th BRICS Summit - Islamabad

37. Who rendered the English translation of our National song?

1) Sri Aurobindo Ghosh
2) Rabindranath Tagore
3) Madan Mohan Malavia
4) Annie Besant

38. Consider the following statements: Assertion (A): Shakuntala Devi is known as Human Computer. Reason (R) : Shankuntala Devi has the ability to make sixth generation computers.

1) Both(A) and (R) are individually true and (R) is the correct explanation of (A)
2) Both(A) and (R) are individually true but (R) is NOT a correct explanation of (A)
3) (A) is true but (R) is false
4) (A) is false but (R) is true

39. The first session the constituent assembly was presided over by-

1) Dr. Rajendra Prasad
2) Dr. Sachithanantha Singa
3) Dr. B.R. Ambedkar
4) Jawaharlal Nehru

40. In which assembly election to constitency in Tamil Nadu voters used NOTA option in EVM's for the first time?

1) Tirumangalam
2) Yercaud
3) Pennagaram
4) Nilakottai

41.

Choose the correct pair:

River	Length(km)
1) NILE	a) 6400
2) AMAZON	b) 6656
3) YANGTZE	c) 4360
4) MISSOURI	d) 5520

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

42. Consider the following statements: I. Stone was rare in Indus region. II. Tin was known to the Indus people III. Lead was unknown to the Indus people. Which of the above statements is/are correct?

1) I is correct

2) II and III are correct

3) I and III are correct

4) I and II are correct and III is wrong

43. The Karma Doctrine (rebirth, reincarnaiton, transmigration), which is fully developed in the upanishads is first mentioned in the-

1) Bhagavad Gita

2) Satapata Brahmana

3) Purusha Suktam

4) Mahabharata

44. In the later Vedic Literature, which one of these peoples, were contemptuosly described as Vrityas, outside the pale of orthodox Brahmanism and speaking a strange unintelligible language?

1) Magadhas

2) Panchalas

3) Videhans

4) Sakyas

45. The third and fourth Buddhist councils were held in the reigns of Ashoka and Kanisha respectively. They have presided over by _____ and _____ respectively.

1) Moggaliputta Tissa and Vasumitra respectively

2) Vasumitra and Mogaliputta Tissa respectively

3) Moggaliputta Tissa and Upali respectively

4) Ananada and Vasumitra respectively

46. The widow marriage society of Ranade was established at Poona in _____.

1) 1851

2) 1861

3) 1871

4) 1881

47. Which of the following event a considered as a Machiavellian devise of the British in the administration?

1) Charter Act of 1813

2) Queen's Proclamation

3) Partition of Bengal

4) Rowlat Act

48. Which article of the Indian Constitution deals with the abolition of untouchablity?

1) Article 16

2) Article 16(ii)

3) Article 17

4) Article 17(ii)

49. With which of _____ style of Indian classical dance Madame Menaka is related?

1) Odisi
2) Kuchipudi
3) Kathak
4) Manipuri

50. In Ancient India, "Danda" means
1) The fear of punishment
2) Violation of law
3) Respecting the law
4) Law making

51. A President's rule can be imposed in a state under the provision of: i) Art 356 ii) Art 360 iii) Art 352 iv) Art 365
1) Only i
2) i, iii
3) i, iv
4) i, ii

52. Islamic Jurisprudence is derived mainly from-
1) Uniform civil code
2) Quran and Sunnah
3) Baghdad Laws
4) None of these

53. In 1974 D.S. Kothari Committee was appointed to deal with-
1) Centre-states relations
2) Enhance primary education
3) The recruitment and selection methods of UPSC
4) Administrative performs in Maharashtra

54. Which of the following articles related to Jammu and Kashmir? I. Article - 352 II. Article - 356 III. Article - 360 IV. Article - 370
1) I and II
2) II only
3) II and III
4) IV only

55. Indian citizenship is; I. Single citizenship II. Dual citizenship III. Plural citizenship

1) I and II
2) I only
3) II only
4) III only

56. Parliament provided pension to members of both houses in the year-
1) 1956
2) 1966
3) 1976
4) 1986

57. Who is called as the father of local self government?
1) Lord Mayo
2) Lord Curzon
3) Lord Rippon
4) Lord Wellington

58. The Constitution of India is: I. Rigid II. Very rigid III. Flexible IV. Party rigid and partly flexible

1) I only
2) III only
3) IV only
4) I, II and III

59. Which one of the following statement is NOT correct?
1) Article 215 defines a "High Court"
2) A High Court may have jurisdiction over more than one states

3) All the High Courts are enjoying equal status
4) Tamil Nadu and Pondicherry have separate High Courts

60. **Which one of the following is NOT an essential features of Federalism?**
    1) Dual Governments
    2) Distribution of Power
    3) Supermacy of the Constitution
    4) Single Citizenship

61. **Point out the wrong statement in the following regarding Election Commission.**
    1) The Chief Election Commission cannot be resolved by the Parliament
    2) Election Commission allots symbols to the political parties and the candidates.
    3) Regional Election Commissioners are appointed by the President of India.
    4) Election Commission is constituted according to Art 324.

62. **"Towards faster and more inclusive growth" is the title of-**
    1) 12th five year plan document
    2) 11th five year plan document
    3) 10th five year plan document
    4) 9th five year plan document

63. **Foreign Investment takes the form of: I. Foreign Direct Investment II. Foreign Portfolio Investment III. Foreign Development Assistance IV. Foreign Loans.**
    1) I and II
    2) II and III
    3) III and IV
    4) I and IV

64. **RBI claims that inflation can be controlled by- I. Raising Repo rate II. Raising Reverse Repo rate III. Increasing CRR**

    1) I only
    2) I and III
    3) III only
    4) I, II and III

65. **The 66th round NSSO survey of employment shows that the vast majority of new jobs are created in _____.**

    1) Casual employment
    2) Skilled employement
    3) Semi skilled employment
    4) Formal employment

66. **The per captia income of India in 2011 was estimated at:**
    1) $ 1600
    2) $ 1000
    3) $ 1500
    4) $ 950

67. Match the following:

Name	CEO
a) SatyaNadella	1) Pepsi Co.
b) IndraNooyi	2) Microsoft
c) Anshu Jain	3) Reckitt Benckiser
d) RakeshKapoor	4) Deutsche Bank

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

68. **The three dimensions of Human Development Index are : _____ , _____ and _____.**

    1) Income, Sanitation and Infrastructure
    2) Health, Education and Income
    3) Food, Electricity and Housing
    4) Health, Education and Energy

69. Match the following:

	List-I	List-II
a)	Mid day meals scheme	1) 2006
b)	Implementation of NREGA	2) 1995
c)	Cash Reserve Ratio	3) Finance Commission
d)	Divisible taxes	4) Reserve Bank of India

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

70. Consider the following statements: Assertion (A): The Brahmo Samaj was split into the Sadharan Brahmo Samaj and the Adi Brahmo Samaj Reason (R): Keshav Chandra Sen gave emphasis and Christian and Vaishnava teachings.

1) Both(A) and (R) are true statements and (R) is the correct explanation of (A)

2) Both(A) and (R) are individually true but (R) is NOT a correct explanation of (A)

3) (A) is true statement but (R) is a false statement

4) (A) is a false statement but (R) is a true statement

71. The Santhals rebelled against British to attain a special status as National minority on-

1) 1850

2) 1855

3) 1856

4) 1858

72. Match the following:

a) East India Association 1866.	1) Sisir Kumar Ghosh
b) India League 1875	2) Ganesh Vasudev Joshi
c) The Poona SarvajanikSabha 1867	3) Ananda Mohan Bose
d) The Indian Association 1876	4) DadabhaiNaoroji

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

73. The incident which brought Gandhiji into the freedom struggle.

1) Champaran movement

2) Bardali movement

3) Wahabi movement

4) Khilafat movement

74. Who said this statement? The individual must die, so that the nation may live. Today I must die so that India may win freedom and glory

1) Bala Gangadra Tilak

2) Bipin Chandra Pal

3) Subash Chandra Bose

4) Mahatma Gandhi

75. **Lalit Kala Academy was established in the year?**
    1) 1950
    2) 1953
    3) 1954
    4) 1955

76. **8 children and 12 men complete a certain piece of work in 9 days. Each child takes twice the time taken by a man to finish the work. In how many days will 12 men finish the same work?**

    1) 12 days
    2) 18 days
    3) 15 days
    4) 36 days

77. **A bag contains 50p, 25p and 10p coins in the ratio 5 : 9 ; 4, amounting to Rs. 206. Find the number of coins of each type in that order.**

    1) 200, 360, 160
    2) 360, 160, 200
    3) 160, 200, 360
    4) 100, 210, 320

78. **Some amount of Rs.7000 was lent at 6% per annum and the remaining was lent at 4%. If the total simple interest in 5 years is Rs.1600, find the sum lent out at 6%.**

    1) 6000
    2) 5000
    3) 4000
    4) 2000

79. **In a group of students, 65 play Football 45 play Hockey, 42 play Cricket. 20 play both Hockey and Football, 15 play Hockey and Cricket, 25 play Football and Cricket, 8 play all the three games. Assuming each play atleast one game, the number of students in the group.**

    1) 500
    2) 200
    3) 150
    4) 100

80. **A's salary is half that of B. If A got a 50% rise in his salary and B got a 25% rise in his salary, then the percentage increase in combined salaries of both is:**

    1) 33 ⅓ %
    2) 72%
    3) 36%
    4) 33%

81.
From the Pie Diagram given below find the central angle E°.
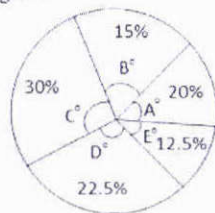
A.	25°
B.	45°
C.	50°
D.	60°

82. Ravi wants to stitch a cover for his C.P.U whose length, breadth and height are 20 cm, 45 cm and 50 cm resepectively. The amount he has to pay if it costs Rs.50 per square meter is:

1) Rs. 37
2) Rs. 35
3) Rs. 40
4) Rs. 50

83. The difference between the simple interest received from 2 different banks on Rs.2000 for 3 years is Rs12.50. The difference between their rate of interest is:

1) 3/10 %
2) 2/5 %
3) 5/24 %
4) 7/10 %

84. An electric train 270 metre long is running at a speed 60 km per hour. The time taken by the train to cross a platform of 230 meters in seconds is:

1) 40
2) 50
3) 60
4) 30

85. If 1/3 of the liquid contents of a can evaporates on the first day and 3/4 of the remainder evaporates on the second day, the fractional part of the original contents remaining at the close of the second day is:

1) 5/12
2) 7/6
3) 1/6
4) 7/12

86. Eight men and 12 women can complete a work in 10 days while 6 men and 8 women in 14 days. Number of days taken by a man alone to complete the work is:

1) 210
2) 70
3) 280
4) 140

87.

A sum of Rs.1300 is divided amongst P, Q, R, and S such that $\dfrac{P's\ share}{Q's\ share} = \dfrac{Q's\ share}{R's\ share} = \dfrac{R's\ share}{S's\ share} = \dfrac{2}{3}$ Then P's share is:	
A.	Rs. 140
B.	Rs. 160
C.	Rs. 240
D.	Rs. 320

88. A card is drawn from a pack of 52 cards at random. The probability of getting neither a king nor a queen is:

1) 2/13
2) 11/13
3) 4/13
4) 8/13

89. From the following number sequence 5 3 4 6 7 9 2 4 1 6 8 6 5 9 4 8 3 5 6 2 1 9 2 how many odd number are there in the series that are preceded by an odd number and followed by an even number?
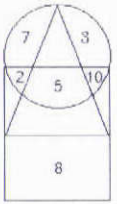
1) 2
2) 3
3) 4
4) 5

• 90. **Ravi travels a distance of 5 km from a place A towards the North, turns left and walks 3 km, again turns right and walks 2km, finally turns right and walks 3km to reach the place B. What is the distance between A and B?**

1) 3 km   2) 7 km

3) 10 km   4) 13 km

91. **Five students P, Q, R, S, T were examined in a test. P scored higher marks than R and Q scored less marks than S. But S scored less marks than R and T scored higher marks than Q but less than R. Who scored the highest marks among five students?**

1) R   2) P

3) T   4) S

92. **A 2-wheeler's market price is Rs. 75,000/-. The vendor allows successive discounts of 10%, 8% and 5% on it. What is its selling price?**

1) 50,000/-   2) 57,750/-

3) 58,995/-   4) 55,000/-

93. **Two candidates fought an election. The winner got 65% of votes and won by 300 votes majority. What is the total number of votes polled?**

1) 350   2) 650

3) 1000   4) 3000

94. **Find x if 45% of x +30% of 90 = 30% of 120.**

1) 30   2) 45

3) 20   4) 25

95. **If C=3, CEP = 24, What will be the value of HUX?**

1) 47   2) 49

3) 51   4) 53

96.

If

☐ ⟶ Mathmatics

◯ ⟶ Tamil

△ ⟶ English

7   3
2   5   10
8

Then the number of students studied Maths and Tamil alone.

A.	5
B.	7
C.	8
D.	12

97. **A shopkeeper uses a code 'OLISPAH' = Rs.28 where O=Rs 1, L=Rs 2, I=Rs 3, and so on. What price does 'SOAP' denote?**

1) Rs.120   2) Rs.18

3) Rs.16   4) Rs.61

98. **What year does it represent? MDCLXVI**
   1) 1966
   2) 1866
   3) 1766
   4) 1666

99.

If $(121)^2 = 14641$. Find the value of $\sqrt{146.41}$	
A.	1.21
B.	12.1
C.	0.121
D.	0.0121

100. **The mean mark of 100 students was found to be 60. Later on it was found that a score of 91 was misread as 41. Then the correct mean corresponding to the correct score is:**

   1) 60
   2) 60.5
   3) 59.5
   4) 58.5