

Question Papers

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ExamCode: CHE_GK_022015

1. One of the following method is NOT useful for the purification of metal-

- 1) Electrolytic refining
2) Zone refining
3) Mond's process
4) Calcination

2. Oxidation number of carbon in CH_4 , CH_3Cl , CHCl_3 and CCl_4 are-

- 1) +4, -2, +2, -4
2) -4, -2, +2, +4
3) +4, +2, -2, -4
4) -4, -2, +4, +2

3. The meson theory of nuclear forces was proposed by-

- 1) Fermi
2) Yukawa
3) Lyman
4) Rutherford

4. Match the following Indus valley sites in list I with the places associated in List II and select the correct answer using the codes given below.

List I		List II	
a)	KotDiji	1)	Punjab
b)	Rupar	2)	Haryana
c)	Mitathal	3)	Gujarat
d)	Dholavira	4)	Sindu

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

5. The origin of the caste system is mentioned in _____

- 1) Samhitas
2) Upanishads
3) Purusha Suktam
4) Aranyakas

6. Which major Rock Edict of Asoka mention the prohibition of animal sacrifices- I. First Major Rock Edict II. Second Major Rock Edict III. Third Major Rock Edict IV. Fourth Major Rock Edict

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

7. Who is the author of Tabaqat - i-Nasiri?

- 1) Hasan Nizami
2) Siraj
3) Barani
4) Afif

8. Which of the following is NOT the tax collected by Delhi sultans- I. Khams II. Zakat III. Iqta IV. Ushr

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

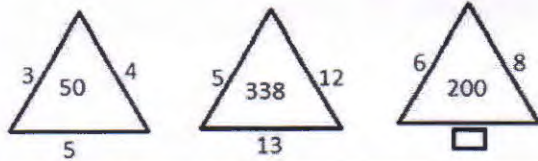
9. The average of 11 numbers is 10.8. If the average of the first six numbers is 10.4 and that of the last six numbers is 11.5, then the middle (6th) number is:

- 1) 10.3
2) 12.6
3) 13.5
4) 15.5

10. Thirteen eggs collected in a farm have the following weights in grams. 32, 40, 28, 33, 39, 46, 41, 33, 40, 41, 31, 32, 33 The mode of the above data is:
- 1) 32
2) 46
3) 40
4) 33
11. Who among the following is NOT an Islamic zed Hindu slave? I. Malik kafur II. Khusrau khan Baradu III. Khan - I - Jahan Maqbul IV. Ulugh khan
- 1) I
2) II
3) III
4) IV
12. Name the first English who visited the court of Jahangir in 1608?
- 1) Sir Thomas Stephan
2) William Hawkins
3) Sir Thomas Roe
4) John Mildner
13. The slogan "Go back to Vedas" is a Clarian call of _____.
- 1) Ramakrishna Paramahansa
2) Rajaram Mohan Roy
3) Dayananda Saraswathi
4) Dr. Annie Besant
14. In Tamil Nadu, what was the share of primary sector in its Net State Domestic Product during 2012-13?
- 1) 7.8%
2) 8.9%
3) 10.5%
4) 12.0%
15. Forest research institute of India is located in-
- 1) Nilgiri
2) Bhopal
3) Dehradun
4) Delhi
16. India's permanent research station Dakshin Gangotri is situated in the:
- 1) Indian ocean
2) Arabian sea
3) Antarctica
4) Great Himalayas
17. Which of the following is the longest railway bridge in India?
- 1) Howrah bridge
2) Son bridge
3) Eldrin bridge
4) Vembanad bridge
18. The Government of India constituted the Central pollution control board in:
- 1) September, 1974
2) September, 1984
3) June, 1980
4) December, 1970
19. _____ is an information an website puts on the user's hard disk so that it can remember the user's profile later.
- 1) Cookies
2) Firewall
3) Spam
4) Application

20.

Find the missing number in the series



A. 6

B. 8

☒ C. 10

D. 12

21. On selling 12 note books, a seller makes a profit equal to the selling price of 4 note books, what is his gain percent?

1) 20%

2) 30%

3) 40%

☒ 4) 50%

22.

In an office $\frac{3}{4}$ of the staff can neither type nor take short hand. However, $\frac{1}{5}$ th can type and $\frac{1}{3}$ rd can short hand. What part of the whole staff can do both?

A. $\frac{1}{5}$ B. $\frac{3}{40}$ C. $\frac{13}{40}$ ☒ D. $\frac{17}{60}$
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23. 20 litres of a mixture contains milk and water in the ratio 5 : 3. If 4 litres of this mixture are replaced by 4 litres of milk, the ratio of milk to water in the new mixture will become-

1) 2 : 1

☒ 2) 7 : 3

3) 8 : 3

4) 4 : 3

24. Two numbers are in the ratio 3 : 4 and the product of their L.C.M and H.C.F is 10800. The sum of the numbers is:

1) 180

☒ 2) 210

3) 225

4) 240

25. Match List I with List II and select the correct answer:

List - I		List - II	
a)	Trichome	1)	Xylem
b)	Sieve elements	2)	Mesophyll
c)	Chlorenchyma	3)	Epidermal Tissue
d)	Vessels	4)	Phloem

	a	b	c	d
A.	2	3	4	1
B.	4	3	2	1
<input checked="" type="checkbox"/> C.	3	4	2	1
D.	4	1	2	3

26. Interferons were discovered by-

- 1) Louis Pasteur
☒ 2) Alick Isaacs & Jean Lindeman
 3) Kohler
 4) Niels Jerne

27. Which of the following statements of plastids is true?

- 1) Colored plastids are called leucoplast
☒ 2) Chloroplast is found in palisade & spongy tissues of leaves
 3) Chromoplasts are found in root
 4) Chloroplasts are involved in storage

28. With reference to lok adalats, which of the following statements is correct?

- 1) Lok adalats have the Jurisdiction to settle the matters at the pre - Litigative stage and not those matters pending before any court
 2) Lok adalats can deal with matters which are civil and not criminal nature
☒ 3) Every Lok adalat consists of either serving or retired Judicial officers only and not any other person
 4) None of the statements given above is correct

29. Arrange the formation of the following states in chronological order. 1. Haryana 2. Maharashtra 3. Andhra Pradesh 4. Nagaland Select the correct answer from the code given below.

- 1) 2, 1, 3 and 4
☒ 2) 3, 2, 4 and 1
 3) 1, 2, 3 and 4
 4) 3, 2, 1 and 4

30. The parliament can make any law for whole or any part of India for implementing international treaties-

- 1) With the consent of all the states
 2) With the consent of the majority of states
 3) With the consent of the states concerned
☒ 4) Without the consent of any state

31. Fundamental duties of the citizens were added in the constitution by the recommendation of:

- ☒ 1) Swaran singh committee
 2) Santhanam committee
 3) Shah committee
 4) Mehta committee

32. Consider the following statements. a). The foreign policy of any country stresses upon National security b). India's foreign policy emphasizes on having autonomy in decision making process on global matters Choose the correct answer from the options given below.

☒ Both (a) and (b) are true
☐ Only (a) is true

☐ (a) is true and (b) is false
☐ Only (b) is true

33. Which one of the following sets includes the bacterial disease?

1) Cholera, Typhoid, Mumps
 3) Malaria, Mumps, Polio myelitis

☒ 2) Diptheria, Leprosy, Plague
☐ 4) Tetanus, Tuberculosis, Measles

34.

$\frac{11^2 - (4)^2 \times 2}{4 \times 2} = ?$	
A.	11
B.	$1\frac{1}{4}$
<input checked="" type="checkbox"/> C.	$11\frac{1}{8}$
D.	121

35. The wrong term in the series: 11, 2, 21, 3, 32, 4, 41, 5, 51, 6

1) 11
☒ 32
 2) 21
 4) 51

36.

The value of $\frac{1}{\sqrt{2}+1} + \frac{1}{\sqrt{3}+\sqrt{2}} + \frac{1}{\sqrt{4}+\sqrt{3}} + \dots + \frac{1}{\sqrt{9}+\sqrt{8}}$ is:	
A.	$1 + \sqrt{2} + \sqrt{3} + \sqrt{4} + \dots + \sqrt{9}$
B.	$\sqrt{3} + \sqrt{5} + \sqrt{7}$
C.	$10\sqrt{5}$
<input checked="" type="checkbox"/> D.	2

37. What is the largest number by which when 2109, 2790 and 3471 are divided, then 1, 2 and 3 are obtained as remainders respectively?

1) 48
 3) 38
☒ 2) 68
 4) 86

38.

What is the value of $\sqrt{2+\sqrt{2+\sqrt{2+\sqrt{2+\dots}}}}$

A.

1

☒ B.

2

C.

3

D.

 ∞

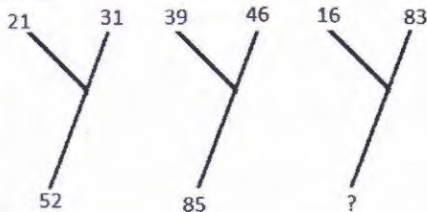
39. A certain sum of money lent out at simple interest basis amounts to Rs. 660 in 3 years and Rs. 720 in 5 years. The sum lent is:

☒ 1) Rs. 570
3) Rs. 540

2) Rs. 600
4) Rs. 525

40.

Find the missing number in the following figure:



A.

92

B.

72

C.

62

☒ D.

99

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41. After getting two successive discounts, a shirt with a cost price of Rs. 150 is available at Rs. 105. If the second discount is 12.5%, find the first discount.

1) 10%
☒ 3) 20%

2) 15%
4) 16%

42. A debt of Rs. 1640 due in 2 years at the rate of 5%. Compound interest is paid in two equal annual installments. Find the installment amount?

1) Rs. 810
3) Rs. 1000

☒ 2) Rs. 882
4) Rs. 820

43. x men can complete a work in y days and y women can complete the same work in x days. Find the number of days the same work can be completed by a group of xy men and women.

1) 4 days
3) 2 days

2) 3 days
☒ 4) 1 day

44. _____ is the process of copying sensitive data to another location and preventing loss of data.

1) Firewall
☒ 3) Backup

2) Shield
4) Audit

45. The mean of 5 numbers is 25. If one number is excluded and the mean is still 25, the excluded number is:

1) 25
3) 20

2) 0
4) 30

46. From the following table on distribution of weekly wages of 800 workers of a factory, compute the number who earn more than Rs. 4000.

Wages in hundreds of rupees	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55
No. of workers	50	70	160	180	150	120	70

A. 340
B. 0
C. 150
D. 270

47. There are 600 creatures in a zoo as per list below:

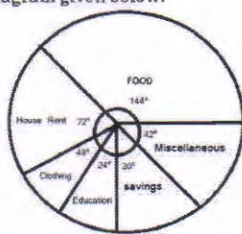
Creatures	Wild animal	Birds	Other land animals	Water animals	Reptiles
Number of Creatures	200	100	160	65	75

To represent this by a pie chart, the central angle of the sector of the circle representing birds is:

A. 360°
B. 120°
C. 60°
D. 96°

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48. How much money does a family earning Rs. 4,800 per month spend on House rent & Education and on Food alone respectively from the Pie diagram given below.



A. Rs. 1,920 & Rs. 1,280
B. Rs. 1,920
C. Rs. 1,280 & Rs. 1,920
D. Rs. 3,200

49.

In which year the production of scooters of all types taken together exceeds the average annual production, from the table given below?

Year	2007	2008	2009	2010	TOTAL
Type					
A	16	20	8	21	65
B	14	10	16	12	52
C	16	17	21	13	67
D	10	6	4	20	40
E	19	18	25	14	76
	75	71	74	80	300

Production of scooters by a Company.

A. 2010

B. 2007

C. 2009

D. 2008

50. Internet Telephony is also known as ____.

1) VoIP

3) VoI

2) VoIT

4) VoID

51. Two protoplasts are fused with a fusogen called-

1) Polyethylene glycol

3) Polyvinyl alcohol

2) Polyethane glycol

4) Phosphoric acid

52. The south pole experiences continuous light at the time of-

1) Winter solstice

3) Vernal equinox

2) Summer solstice

4) Autumnal equinox

53. _____ layer reflects the radio waves back to the earth.

1) Troposphere

3) Ionosphere

2) Stratosphere

4) Mesosphere

54. Which amendment incorporated socialism in the preamble of the Indian Constitution ?

1) 42

3) 44

2) 43

4) 41

55. Which is the Universal Donor blood group?

1) 'O'

3) 'A' group

2) 'AB' group

4) 'B' group

56. The innermost layer of the uterus is called:

1) Perimetrium

3) Endometrium

2) Myometrium

4) Fundus

57. Panchayati Raj is based on the principles of:

1) Decentralisation

3) Democratic centralisation

2) Deconcentration

4) Democratic decentralisation

58. The office of the District collector was created in:

1) 1771

3) 1774

2) 1772

4) 1777

59. A member of the State public service commission is removed from his office by the-

1) President

3) Parliament

2) Governor

4) Legislative assembly

60. The anti - defection law was passed in the year-

1) 1955

3) 1975

2) 1965

☒ 4) 1985

61. Grama sabha includes:

1) All voters of the village

3) All the elders

☒ 2) All the adult citizens of the village

4) All the members of village panchayat

62. Consider the following statements: 1. The recommendation of the finance commission are binding on the government 2. These are generally accepted by the government as a matter of convention Which of the statements given above is / are correct?

1) 1 only

3) Both 1 and 2

☒ 2) 2 only

4) Neither 1 nor 2

63. Identify the odd one from the group of chemical given below: 1) A 2) B 3) C 4) D

1) BHC

3) 2, 4 D

2) DDT

☒ 4) CAN

64. Anaesthetic used for minor operation dentistry-

1) Nitrous oxide

☒ 2) Nitrous oxide + O₂

2) Nitric oxide

4) Nitrogen dioxide

65. Identify the substance which is not optically active-

1) Cinnabar

3) Turpentine oil

2) Sugar solution

☒ 4) Wood

66. Indian recipient of Nobel prize in Economics is:

1) Dr. Subramanian Chandrasekhar

3) Dr. Chandrasekhar Venkatraman

2) Rabindranath Tagore

☒ 4) Dr. Amartya sen

67. (IBRD) International bank for Reconstruction and development is otherwise known as:

1) IMF

3) SBI

☒ 2) World Bank

4) EX IM Bank

68. Green Revolution included the following: I. Hybrid seeds II. Chemical fertilizers III. Construction of new dams

1) Only I is true

3) I, II and III are true

☒ 2) Only I and II are true

4) Only II and III are true

69.

What is the value of $A + A\bar{B}$ according to Boolean Algebra?

- ☒ A. A
- ☐ B. \bar{A}
- ☐ C. B
- ☐ D. \bar{B}

70. On which of the following the colour of a star depends upon?

- 1) Mass
2) Volume
3) Radius
☒ 4) Surface Temperature

71. The Gross Enrollment ratio in class 1 - V for the years 2012-13 in Tamil Nadu is:

- 1) 124.3
☒ 2) 111.8
3) 115.5
4) 180.8

72. Inflationary gap was introduced by-

- ☒ 1) J.M. Keynes
2) Marshall
3) J.R. Hicks
4) Fisher

73. Match the following activities given in List I with the sectors in List II.

List -I		List -II	
a)	Mining	1)	Industry
b)	Construction	2)	Service
c)	Real Estate	3)	Agriculture

	a	b	c
<input checked="" type="checkbox"/> A.	3	1	2
B.	2	1	3
C.	2	3	1
D.	1	3	2

74. Forward shifting of tax burden refers to the shifting of burden from-

- ☒ 1) Producer to the buyer
2) Buyer to the producer
3) Buyer to the govt.
4) Govt to the buyer

75. Arrange the following organisations in a chronological order: 1) British Indian Association 2) East India Association 3) Bombay presidency Association 4) Madras Mahajana sabha

- 1) 1234
2) 4132
3) 2314
4) 3421

76. Which was the only session of the Indian National Congress presided over by Mahatma Gandhi?

- 1) Allahabad
- 3) Belgaum

- 2) Guwahati
- 4) Kakinada

77. Who accused Indian National Congress of practising 'politics of prayer , petition and protest'?

- 1) Bipin Chandra Pal
- 3) Bala Gangadhar Tilak

- 2) Lala Lajpat Rai
- 4) Subhash Chandra Bose

78. The weekly commonweal was founded by whom?

- 1) Subhash Chandra Bose
- 3) Annie Besant

- 2) Sardar Patel
- 4) Sarojini Naidu

79. Who said "Swaraj is my birth Right"?

- 1) Subramanya Bharathi
- 3) Subramanya Siva

- 2) Subhash Chandra Bose
- 4) Bala Gangadhar Tilak

80. Name the viceroy when Quit India Movement was started?

- 1) Lord Chelmsford
- 3) Lord wavel

- 2) Lord linlithgow
- 4) Lord Reeding

81. Find the correctly matched pair between National parks and the state in which it is situated-

- 1) Tadoba - Madhya Pradesh
- 3) Bandhavgarh - Karnataka

- 2) Ranthambore - Rajasthan
- 4) Nagarhole - Maharashtra

82. Identify the proposed monument. 1. Honourable president of India laid the foundation stone in November 2014. 2. It is an Iskcon project to be held at Vrindavan, U.P.

- 1) Chandrodaya Mandir
- 3) Krishna Mandir

- 2) Mur Mandir
- 4) Vrindavan Mandir

83. Who is the newly elected president of Indian newspaper society (INS) for 2014-15?

- 1) Mohit Jain
- 3) Somesh Sherma

- 2) Kiran B. Vadodaria
- 4) P.V. Chandran

84. Match the following:

a) National Youth Day	1)	January 15
b) World Leprosy Eradication day	2)	January 12
c) Army Day	3)	January 25
d) National voters day (India)	4)	January 30

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

85. The WPI dips to 1.8% in October 2014 against 2.4% in the preceeding month. What is WPI?

- 1) World Population Index
- 2) Women Population Index
- 3) Wholesale Price Index
- 4) Wholesale price Inflation

86. Which country first granted "right to vote" for women?

- 1) Ireland
- 2) Newzealand
- 3) Germany
- 4) India

87. 72nd Golden Globe award festival was held in:

- 1) London
- 2) California
- 3) Paris
- 4) Tokyo

88. On 2nd December 2014, this site was thrown open to public on its 30th anniversary of disaster. Name the site.

- 1) Union carbide plant, Bhopal
- 2) Golden Temple, Amritsar
- 3) Kolar Gold fields, kolar
- 4) Nuclear power plant, Germany

89. The 18th Member of the "EUROZONE" was

- 1) Latvia
- 2) Estonia
- 3) Libiya
- 4) Cuba

90. OT Southern star 7, in news during December 2014 denotes-

- 1) Navy Ship
- 2) Submarine
- 3) Defence radar
- 4) Oil tanker

91. World diamond conference was held in new Delhi on-

- 1) December 7 2014
- 2) December 9 2014
- 3) December 11 2014
- 4) December 14 2014

92. Indian contribution to build TMT is a milestone in space science. India joined the elite group of countries on 2nd December 2014 on this front. What is TMT?

- 1) Time Machine Top
- 2) Thirty Metre Telescope
- 3) Tele Machine Top
- 4) Time Machine on Titan

93. Match the following:

Authors		Books	
a)	Vickram Seth	1)	India Divided
b)	Charles Dickens	2)	Distant Neighbours
c)	Kuldip Nayar	3)	Golden Gate
d)	Rajendra Prasad	4)	Bleak House

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

94. Which country will host 42nd world bridge championships, 2015?

- 1) China
- 2) Brazil
- 3) India
- 4) Japan

95. Gujarat's Second Canal - top 10-MW solar power project was inaugurated by-

- 1) Kanchan Prasad
- 2) Ban ki - Moon
- 3) Jim Yong Kim
- 4) Arun Jaitley

96. Singapore press holdings limited named our prime minister Mr. Narendra Modi as:

- 1) Asian of the Decade
- 2) Asian of the century
- 3) Asian of the year
- 4) Asian of All times

97. Which organization is chosen for the Indira Gandhi prize for peace, Disarmament and Development for 2014 ?

- 1) ISRO
- 2) WHO
- 3) UNESCO
- 4) FAO

98. Find out the recently invented medicine used for HIV-1 infections-

- 1) L.Methyl methionine
- 2) Darunavir Ethanolate
- 3) Synriam
- 4) Serpasil

99. The Indian - American, who was awarded the International children's peace prize 2014 is:

- 1) S. Arjun
- 2) Neha Gupta
- 3) Asha Bhatt
- 4) Rolene Strauss

100. The author of the book "Born Again on the mountain" was:

- 1) Arvind Panagariya
- 2) Arunima Sinha
- 3) Bibek Debroy
- 4) Anita Desai

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