



Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPSC



UP TET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

RRB NTPC 2019 CBT 1 Question Paper (12-Jan-2021) (Shift 2)

Total Time: 1 Hour : 30 Minute

Total Marks: 100

Instructions

1. Test will auto submit when the Time is up.
2. The Test comprises of multiple choice questions (MCQ) with one correct answers.
3. The clock in the top right corner will display the remaining time available for you to complete the examination.

Navigating & Answering a Question

1. The answer will be saved automatically upon clicking on an option amongst the given choices of answer.
2. To deselect your chosen answer, click on the clear response button.
3. The marking scheme will be displayed for each question on the top right corner of the test window.

Your Personal Exams Guide

NTPC

1. Which steel plant was established with Russian collaboration in Durg district of Chattisgarh and started production in 1959? (+1, -0.33)

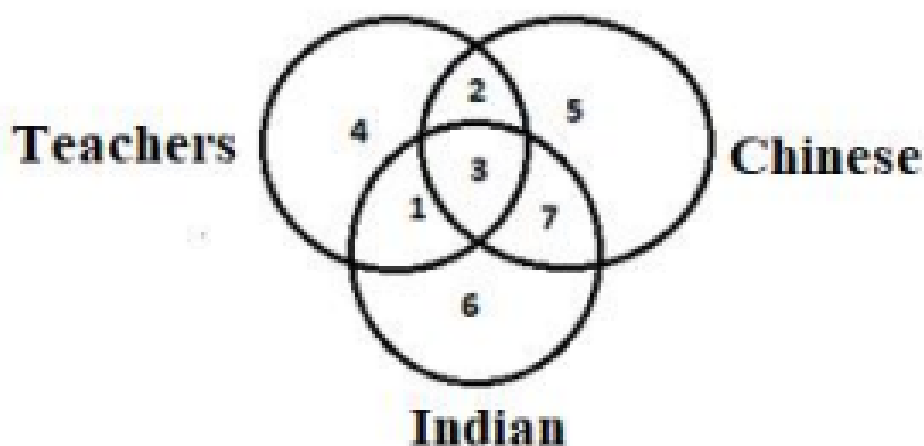
- a. Rourkela Steel Plant
- b. Durgapur Steel Plant
- c. Bokaro Steel Plant
- d. Bhilai Steel Plant

2. The value of $1 + 2 + 3 + \dots + 30 + 31 + 30 + 29 + \dots + 3 + 2 + 1 = ?$ (+1, -0.33)

- a. 961
- b. 1000
- c. 999
- d. 900

3. Study the diagram and identify the region representing teachers who are Chinese but not Indian. (+1, -0.33)

Chinese but not Indian.



- a. 2 only
- b. 1,2,7
- c. 2, 3
- d. 1, 7

4. In human beings, which of the following has a high affinity for oxygen? (+1, -0.33)

- a. Haemoglobin
- b. Carbon dioxide
- c. White blood cells
- d. Melanin

5. If the LCM of $20x^3y^2$ and $10x^4y^4$ is $20x^4y^4$, find the HCF. (+1, -0.33)

- a. $10x^2y^2$
- b. $20x^2y^2$
- c. $20x^3y^2$
- d. $10x^3y^2$

6. If Sohan is taller than Mohan but shorter than Geeta and Mohan is as tall as Meghna but taller than Komal, then Meghna is: (+1, -0.33)

- a. taller than Geeta
- b. shorter than Komal
- c. shorter than Mohan

d. shorter than Sohan

7. When people are financed through the budget and a public good is made available free of any direct payment it is referred to as: (+1, -0.33)

- a. stabilisation
- b. public provision
- c. allocation function
- d. public production

8. An instrument used for measuring growth in plants is known as a: (+1, -0.33)

- a. chronometer
- b. bolometer
- c. cardiograph
- d. crescograph

9. The sum of total fixed cost and total variable cost is known as: (+1, -0.33)

- a. total revenue
- b. total expenditure
- c. total product
- d. total cost

10. Rohan can travel from Delhi to Kanyakumari in 30 h. If he reduces his speed by $\frac{1}{15}$ th, he goes 10 km less in the same time. Find the speed. (+1, -0.33)

- a. 2.5 km/h
- b. 5 km/h
- c. 8 km/h
- d. 3 km/h

11. Which former judge of the Supreme Court of India has been appointed as the Chairperson of the News Broadcasting Standards Authority (NBSA) in May 2019? (+1, -0.33)

- a. Madan Lokur
- b. Anil R Dave
- c. Arjan Kumar Sikri
- d. Jasti Chelameswar

12. In 2014, the Department of Science and Technology in India took a giant step forward and brought all the women centric schemes and programmes under one ambit named: (+1, -0.33)

- a. KIRAN
- b. SUMAN
- c. TIFAC
- d. CURIE

13. In a web address, the domain indicator (suffix) '.com' stands for: (+1, -0.33)

- a. computer

- b. communication
- c. common
- d. commercial

14. Identify the number that does NOT belong to the following series. (+1, -0.33)
14, 19, 26, 35, 44, 59

- a. 59
- b. 14
- c. 26
- d. 44

15. If '+' means ' $\div$ ', '-' means ' $\times$ ', ' $\div$ ' means '+' and ' $\times$ ' means '-', then find the value of $2 - 1 \times 4 \div 4 + 2$? (+1, -0.33)

- a. -4
- b. 3
- c. -2
- d. 0

16. If x is less than y by 40%, then y exceeds x by: (+1, -0.33)

- a. $66\frac{1}{3}\%$
- b. 60%
- c. $33\frac{1}{3}\%$

d. $66\frac{2}{3}\%$

17. A train 180 m long is running at a speed of 90 km/h. How long will it take to pass a post? (+1, -0.33)

a. 7 s

b. 7.8 s

c. 7.2 s

d. 5.5 s

18. Which is one of the newest nuclear power plants of India? (+1, -0.33)

a. Kudankulam

b. Kalpakkam

c. Narora

d. Tarapur

19. Lactic acid is a: (+1, -0.33)

a. Two-carbon molecule

b. One-carbon molecule

c. Four-carbon molecule

d. Three-carbon molecule

20. Select the option that is related to the third term in the same way as the second term is related to the first term. (+1, -0.33)

Haryana : Chandigarh :: Punjab : ?

- a. Patiala
- b. Amritsar
- c. Chandigarh
- d. Ludhiana

21. A sum of ₹800 becomes ₹920 in 3 years at simple interest. If interest is increased by 4%, then the amount will increase to: (+1, -0.33)

- a. ₹1,050
- b. ₹999
- c. ₹216
- d. ₹1,016

22. There is 60% increase in an amount in 6 years at simple interest. What will be the compound interest of ₹10,000 after 3 years at the same rate? (+1, -0.33)

- a. ₹13,310
- b. ₹13,500
- c. ₹3,500
- d. ₹3,310

23. Which state is the largest producer of bauxite? (+1, -0.33)

- a. Madhya Pradesh

- b. Andhra Pradesh
- c. West Bengal
- d. Odisha

24. Who was the Governor-General of Bengal when the Permanent Settlement was introduced there in 1793? (+1, -0.33)

- a. Warren Hastings
- b. William Hodges
- c. Robert Francis
- d. Charles Cornwallis

25. If the ratio of the 11th term of an AP to its 18th term is 2 : 3, find the ratio of the sum of its first five terms to the sum of its first 10 terms. (+1, -0.33)

- a. 17 : 6
- b. 5 : 4
- c. 1 : 2
- d. 6 : 17

26. Arundhati Roy won The Booker Prize for: (+1, -0.33)

- a. The Cost of Living
- b. The God of Small Things
- c. Power Politics

d. An Ordinary Person's Guide to Empire

27. The following observations are arranged in ascending order. If the median of the data is 19, then find the value of x. (+1, -0.33)

6, 9, 15, $x + 4$, $x + 8$, $x + 12$, 30, 32

a. 13

b. 10

c. 8

d. 5

28. When was the border road organisation established in India? (+1, -0.33)

a. September 1960

b. May 1962

c. September 1962

d. May 1960

29. Solve the following. (+1, -0.33)

$$3[35 + (45 + 10 \div 2 \times 3 - 50) + 5]$$

a. 50

b. 150

c. 123

d. 125

30. Popular folk song 'Kajari' is popular in: (+1, -0.33)

- a. Madhya Pradesh
- b. Uttar Pradesh
- c. Haryana
- d. Chhattisgarh

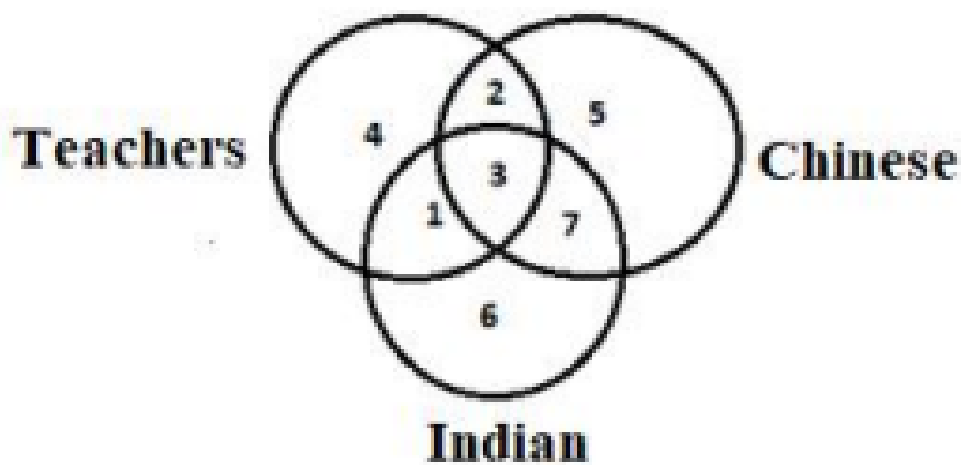
31. Which fibre crop is used for making coarse cloth, bags, sacks and decorative items? (+1, -0.33)

- a. Cotton
- b. Hemp
- c. Jute
- d. Hoopvine

32. If $A : B = 3 : 5$ and $B : C = 4 : 7$, then the value of $A : B : C$ is: (+1, -0.33)

- a. 12 : 35 : 20
- b. 3 : 5 : 7
- c. 20 : 12 : 5
- d. 12 : 20 : 35

33. Study the diagram and identify the region representing teachers who are Indian and Chinese. (+1, -0.33)



- a. 1,2,7
- b. 2, 3
- c. 1, 7
- d. 3 only

34. League of nations was replaced by: (+1, -0.33)

- a. World Bank
- b. Amnesty International
- c. International Monetary Fund
- d. United Nations

35. Solve the following. (+1, -0.33)

$$3.142 + 3.61 - 2.12 + 4 - 7.6 = ?$$

- a. 1.032
- b. 2.002

c. 1.002

d. 10.02

36. PQ is a diameter of a circle whose centre is O. If a point R lies on the circle and $\angle RPO$ is 39° , then find the measure of $\angle RQP$. (+1, -0.33)

a. 51°

b. 125°

c. 129°

d. 151°

37. Who is the first Indian woman scientist to be elected the Fellowship of The Royal Society, United Kingdom in 2019? (+1, -0.33)

a. Sunetra Gupta

b. Paramjit Khurana

c. Indira Hinduja

d. Gagandeep Kang

38. Who among the following resisted the demand for the formation of Pakistan? (+1, -0.33)

a. Muhammad Iqbal

b. Muhammad Ali Jinnah

c. Maulana Ashraf Ali Thanvi

d. Khan Abdul Gaffar Khan

39. Amnesty International is an organisation focused on protection of: (+1, -0.33)

- a. human rights
- b. endangered species
- c. children from malnutrition
- d. environment

40. Which of the following will be the correct sequence of the words if they are arranged as per their order in an English dictionary? (+1, -0.33)

- a. Pile → Pilgrim → Pigment → Pillow
- b. Pigment → Pile → Pilgrim → Pillow
- c. Pillow → Pilgrim → Pigment → Pile
- d. Pigment → Pile → Pillow → Pilgrim

41. If $f(x) = \frac{x+1}{x-1}$, find the value of $f(f(f(2)))$. (+1, -0.33)

- a. 2
- b. 1
- c. -1
- d. 3

42. In which generation were computers bulky, vacuum based and costly? (+1, -0.33)

- a. Fourth generation
- b. Third generation

- c. First generation
- d. Fifth generation

43. The famous novel 'Untouchable' was written by: (+1, -0.33)

- a. AK Ramanujan
- b. RK Narayan
- c. Mulk Raj Anand
- d. KR Sreenivasan Iyengar

44. Four words have been listed, out of which three are alike in some manner and one is different. Select the odd one. (+1, -0.33)

- a. Instruct
- b. Design
- c. Plan
- d. Scheme

45. Where was the 5th ABU Media Summit on Climate Action and Disaster Preparedness held in 2019? (+1, -0.33)

- a. India
- b. Bhutan
- c. Nepal
- d. China

46. Who is the author of the book 'Wealth of Nations'? (+1, -0.33)
- a. Adam Smith
 - b. John Stuart Mill
 - c. Karl Marx
 - d. Alan Greenspan
-
47. Find the least number which must be added to the number 6412 to get a perfect square. (+1, -0.33)
- a. 129
 - b. 181
 - c. 150
 - d. 149
-
48. Which physician came to India and served in the Bengal Medical Service from 1794 to 1815 and also undertook pioneering survey explorations in several diverse regions of India? (+1, -0.33)
- a. William Bentinck
 - b. Warren Hastings
 - c. Francis Buchanan
 - d. Sir William Jones
-
49. The value of the gross investment in order to accommodate regular wear and tear of capital is called: (+1, -0.33)

- a. debt
- b. deficit
- c. new investment
- d. depreciation

50. If the income of Richa is $9\frac{1}{11}\%$ more than that of Meena, then the income of Meena is less than that of Richa by: (+1, -0.33)

- a. $8\frac{10}{12}\%$
- b. $8\frac{3}{12}\%$
- c. $7\frac{10}{12}\%$
- d. $8\frac{4}{12}\%$

51. Out of the number-pairs listed below, three are alike in the way they are related to each other. Select the odd one. (+1, -0.33)

- a. 20 : 5
- b. 36 : 6
- c. 56 : 8
- d. 42 : 7

52. Who is called the 'Milkman of India'? (+1, -0.33)

- a. Arjun Dev
- b. Verghese Kurien

- c. Charan Singh
- d. Manoj Kumar

53. When was the Human Space Flight Centre (HSFC) inaugurated by ISRO? (+1, -0.33)

- a. June 2018
- b. June 2019
- c. January 2018
- d. January 2019

54. If $\sqrt{45} + \sqrt{125} = 17.89$, then what will be the value of $\sqrt{180} + \sqrt{80}$? (+1, -0.33)
(Give your answer to one decimal place.)

- a. 71.9
- b. 13.5
- c. 22.4
- d. 21.6

55. Which article of the Constitution of India is related to the appointment of a Governor? (+1, -0.33)

- a. Article 155
- b. Article 149
- c. Article 148
- d. Article 143

56. The ability of a medium to refract light is also expressed in terms of its: (+1, -0.33)

- a. optical volume
- b. optical density
- c. optical mass
- d. optical illusion

57. Out of four consecutive numbers, the sum of the first two numbers is equal to the fourth number. What is half of the sum of the four numbers? (+1, -0.33)

- a. 2
- b. 9
- c. 14
- d. 7

58. 1.236576576... can be written in the form of: (+1, -0.33)

- a. $\frac{125434}{99900}$
- b. $\frac{125334}{99000}$
- c. $\frac{123534}{99900}$
- d. $\frac{123534}{99000}$

59. In a plant, the seed contains the embryo which develops into a seedling under appropriate conditions. This process is known as: (+1, -0.33)

- a. pollination

- b. germination
- c. cross-pollination
- d. transpiration

60. Which movement was negative enough to be peaceful but positive enough to be effective? (+1, -0.33)

- a. Non-Cooperation Movement
- b. Swadeshi Movement
- c. Quit India Movement
- d. Khilafat Movement

61. Read the given statements and conclusions carefully and decide which of the conclusions logically follow(s) from the statements. (+1, -0.33)

Statements:

- (i) All ships are boats.
- (ii) All anchors are ships.

Conclusions:

- I. All anchors are boats.
- II. Some ships are anchors.
- III. No anchor is boat.
- IV. Some boats are anchors.

- a. All four conclusions follow.
- b. Only conclusions I and III follow.
- c. Only conclusion III follows.

d. Only conclusions I, II and IV follow.

62. How much percentage above the cost price should a shopkeeper mark his goods so that after allowing a discount 25% he should gain 12%? (+1, -0.33)

a. $33\frac{1}{3}\%$

b. 25%

c. $49\frac{1}{3}\%$

d. 40%

63. In a certain code language, RIPPLE is written as 762248 and PREACH is written as 278391. How will CHAIR be written in that language? (+1, -0.33)

a. 93176

b. 91367

c. 91673

d. 91637

64. Who coined the famous slogan 'Jai Jawan Jai Kisan'? (+1, -0.33)

a. Lal Bahadur Shastri

b. Jayaprakash Narayan

c. Sardar Patel

d. Indira Gandhi

65. Which of the following protocols is used for WWW? (+1, -0.33)

- a. HTTP
- b. TCP/IP
- c. FTP
- d. SMTP

66. If the roots of the equation $(4 + m)x^2 + (m + 1)x + 1 = 0$ are equal, then find the values of m . (+1, -0.33)

- a. $m = 5, -3$
- b. $m = -1, -3$
- c. $m = 2, 3$
- d. $m = 0, 5$

67. There are four table clocks. They ring every 10 min, 15 min, 20 min and 25 min respectively. If they all ring together at 10 a.m., then at what time will they ring together again? (+1, -0.33)

- a. 3:30 p.m.
- b. 10:00 p.m.
- c. 3:00 p.m.
- d. 12:00 a.m.

68. The Saubhagya Scheme is controlled by which Ministry of the Central Government? (+1, -0.33)

- a. Ministry of Finance

- b. Ministry of Agriculture and Farmers Welfare
- c. Ministry of Petroleum and Natural Gas
- d. Ministry of Power

69. The arithmetic mean of x observations is m . If two observations 0 and m are added, then the new mean will be: (+1, -0.33)

- a. $\frac{mx}{x+1}$
- b. $\frac{m}{x+1}$
- c. m
- d. $\frac{m(x+1)}{x+2}$

70. The speed of a stream is 3 km/h and the speed of a man in still water is 6 km/h. The time taken by the man to swim 37 km downstream is: (+1, -0.33)

- a. $4\frac{1}{3}$ h
- b. $4\frac{1}{9}$ h
- c. $1\frac{3}{4}$ h
- d. $4\frac{3}{4}$ h

71. Four geometric shapes have been listed, out of which three are alike in some manner and one is different. Select the odd one. (+1, -0.33)

- a. Circle
- b. Rectangle
- c. Square

d. Triangle

72. Manora Fort is situated in: (+1, -0.33)

- a. Madhya Pradesh
- b. Rajasthan
- c. Uttar Pradesh
- d. Tamilnadu

73. Five friends are sitting around a table facing the centre. Arjun is to the right of Harman. Hardik is to the left of Aditya and to the right of Arjun. Harman is to the right of Reyansh. Who is sitting to the immediate right of Aditya? (+1, -0.33)

- a. Arjun
- b. Hardik
- c. Reyansh
- d. Harman

74. Find the sum of the face values of 6 and 5 in 61827354. (+1, -0.33)

- a. 30
- b. 11
- c. 40
- d. 60000300

75. If book is called 'pen', pen is called 'wheat', wheat is called 'chair', chair is called 'cup' and cup is called 'book', then which of the following is edible? (+1, -0.33)

- a. pen
- b. chair
- c. wheat
- d. book

76. Who stayed in India for 23 years (1802 - 25) painting portraits, landscapes and scenes of everyday life of common people? (+1, -0.33)

- a. Walter Statesman
- b. George Chinnery
- c. William Hodges
- d. Walter Sherwill

77. The center of the reflecting surface of a spherical mirror is a point called: (+1, -0.33)

- a. principal axis
- b. pole
- c. center of curvature
- d. focus

78. In $\triangle PQR$, QR is extended up to S, so that RS = RP. If $\angle RPQ = 55^\circ$ and $\angle PRS = 110^\circ$, then find the measure of $\angle PQS$. (+1, -0.33)

- a. 55°

- b. 65°
- c. 15°
- d. 75°

79. The length of a tangent drawn to a circle of radius 4 cm from a point 5 cm away from the center of the circle is: (+1, -0.33)

- a. $5\sqrt{3}$ cm
- b. 5 cm
- c. $3\sqrt{3}$ cm
- d. 3 cm

80. GATT was established to regulate world trade in 1948. GATT stands for: (+1, -0.33)

- a. Gradual Aggregate of Tariffs and Trade
- b. General Agreement on Tariffs and Trade
- c. General Aggregate on Tariffs and Trade
- d. Gradual Agreement of Tariffs and Trade

81. Which state has the largest number of Cotton mills and most of them produce yarn rather than cloth? (+1, -0.33)

- a. Goa
- b. Kerala
- c. Karnataka

d. Tamil Nadu

82. If $p = 5 - 2\sqrt{6}$, then find the value of $p^2 + \frac{1}{p^2}$ (+1, -0.33)

a. $\sqrt{6} - \sqrt{5}$

b. $25 + \sqrt{6}$

c. 98

d. 100

83. If $\sin(3x - 20)^\circ = \cos(20 - 3y)^\circ$, then value of $x - y$ will be: (+1, -0.33)

a. 20°

b. 60°

c. 30°

d. 45°

84. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series. (+1, -0.33)

AZP, BYQ, CXR, ?

a. DVW

b. DWS

c. DWT

d. DUR

85. If $\cos(x + y) = \frac{1}{2}$ and $\sin(x - y) = 0$, where x and y are positive acute angles and $x \geq y$, then x and y are: (+1, -0.33)

- a. 80° and 80°
- b. 60° and 60°
- c. 45° and 45°
- d. 30° and 30°

86. Study the table and answer the question that follows. (+1, -0.33)

State	Year		
	2000	2005	2015
Himachal Pradesh	110	90	150
Uttar Pradesh	120	85	90
Madhya Pradesh	90	65	80
Andhra Pradesh	55	75	65
Tamil Nadu	150	90	115

In which state was the annual rainfall (in cm) for 2005 greater than the average annual rainfall (in cm) for all three years?

- a. Uttar Pradesh
- b. Andhra Pradesh
- c. Madhya Pradesh

d. Himachal Pradesh

87. Study the table and answer the question that follows.

(+1, -0.33)

State	Year		
	2000	2005	2015
Himachal Pradesh	110	90	150
Uttar Pradesh	120	85	90
Madhya Pradesh	90	65	80
Andhra Pradesh	55	75	65
Tamil Nadu	150	90	115

Which state has the maximum percentage decrease in annual rainfall between the years 2000 and 2015?

- a. Tamil Nadu
- b. Uttar Pradesh
- c. Andhra Pradesh
- d. Madhya Pradesh

88. Study the table and answer the question that follows.

(+1, -0.33)

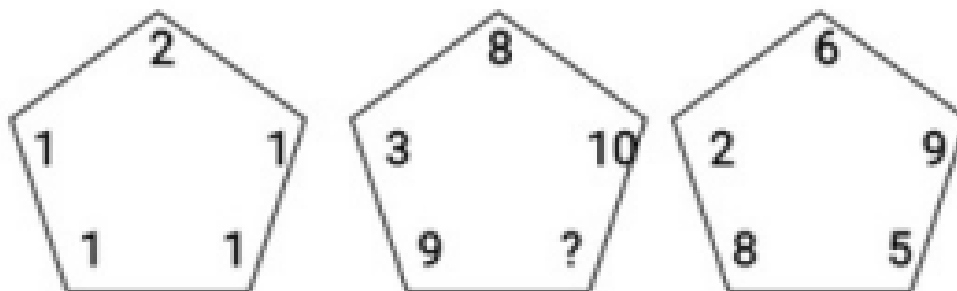
	Year		
State	2000	2005	2015
Himachal Pradesh	110	90	150
Uttar Pradesh	120	85	90
Madhya Pradesh	90	65	80
Andhra Pradesh	55	75	65
Tamil Nadu	150	90	115

Which state has maximum percentage change in the production of grains between the year 2015 and 2018?

- a. Karnataka
- b. Maharashtra
- c. Tamil Nadu
- d. Kerala

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89. Study the given pattern carefully and select the number from among the given options that can replace the question mark (?) in it. (+1, -0.33)



- a. 6

b. 11

c. 7

d. 8

90. Select the number from among the given options that can replace the question mark (?) in the following series. (+1, -0.33)

16, 25, 36, 49, ?

a. 67

b. 64

c. 72

d. 70

91. Observe the four number-pairs listed below. In three of them, the numbers are related to each other by a specific logic. Select the number pair that does not follow the same logic as the other three. (+1, -0.33)

a. 1331 - 144

b. 216 - 36

c. 729 - 81

d. 2197 - 169

92. Which of the following number, when added to itself 14 times gives 135 as result? (+1, -0.33)

a. 9

b. 12

c. 11

d. 8

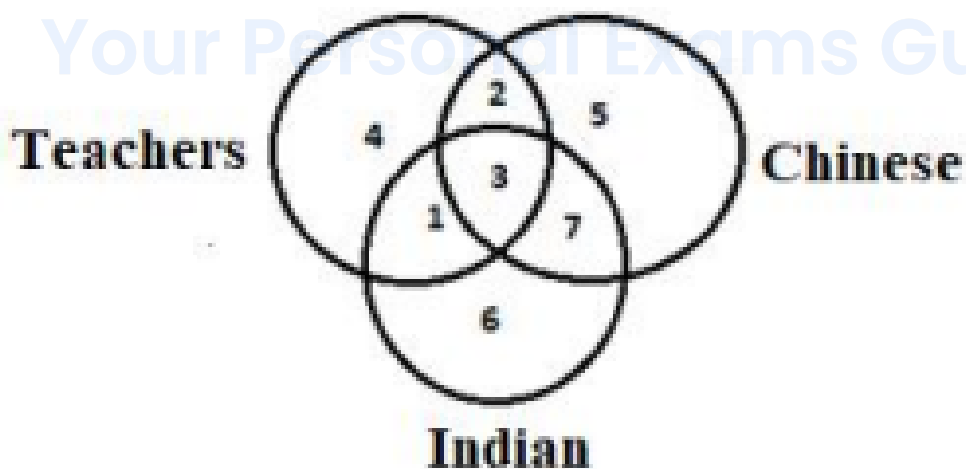
93. Read the given statement carefully and select from among the given options, the conclusion that logically follows from the statement. (+1, -0.33)

Statement:

Ability is a poor man's wealth.

- a. A poor man is always able.
- b. A poor man can earn wealth if he has ability.
- c. A wealthy man is always able.
- d. A poor man does not have the ability to earn wealth.

94. Study the diagram and identify the region representing teachers who are Indian but not Chinese. (+1, -0.33)



- a. 1 only
- b. 4, 1, 6

- c. 1, 3
- d. 3, 7

95. If apple is called 'shampoo', shampoo is called 'milk', milk is called 'pen', pen is called 'hair' and hair is called 'apple', then which of the following will be a thing to drink? (+1, -0.33)

- a. pen
- b. shampoo
- c. apple
- d. hair

96. Ram introduces a man as the only son of his father's father. How is the man related to Ram? (+1, -0.33)

- a. Nephew
- b. Son
- c. Paternal Uncle
- d. Father

97. Four parts of the human body are listed, out of which three are alike in some manner and one is different. Select the odd one. (+1, -0.33)

- a. Throat
- b. Nose
- c. Mouth

d. Tongue

98. Among five friends, Ravi is taller than Anand but he is not as tall as Sunil. (+1, -0.33)
Rohit is taller than Sonu but shorter than Anand. Who is the shortest in their group?

a. Rohit

b. Anand

c. Sonu

d. Sunil

99. Five athletes Deepak, Aslam, Raju, Joni and Monu took part in a race. Joni (+1, -0.33)
finished before Raju but he is behind Monu. Aslam finished before Deepak but he is behind Raju. Who came third in the race?

a. Aslam

b. Deepak

c. Joni

d. Raju

100. Pointing to a photograph, Ram said, "This man's brother's daughter is my (+1, -0.33)
wife." How is his wife related to the man in the photograph?

a. Paternal Niece

b. Daughter-in-law

c. Daughter

d. Sister