1. $\dfrac{(2.3)^3 - 0.027}{(2.3)^2 + 0.69 + 0.09} =$
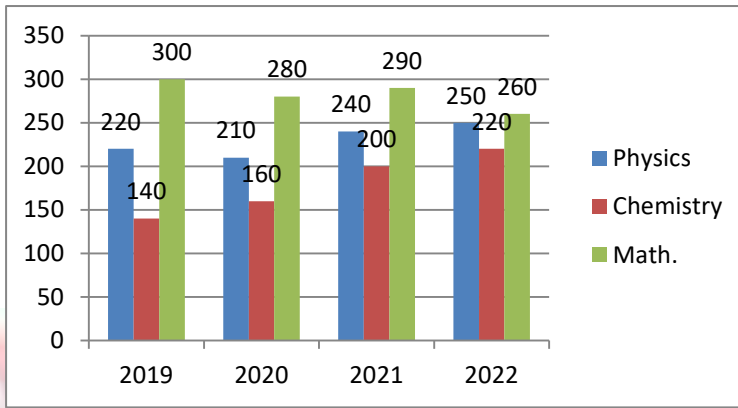
   (a) 2.273　　　　(b) 2.327　　　　(c) 2　　　　(d) 3

2. If $\sqrt{2^n} = 1024$, then $3^{2\left(\frac{n}{4} - 4\right)}$ is equal to

   (a) 3　　　　(b) 9　　　　(c) 27　　　　(d) 81

3. In a flower bed, there are 53 rose plants in the first row, 51 in the second, 49 in the third and so on. If there are 5 rose in the last row, then number of rows in the flower bed are :

   (a)23　　　　(b) 24　　　　(c) 25　　　　(d) 26

Study the following table carefully and answer the given questions . The import and export of four different. country is given (in million USD) for the years from 2018 to 2022.

Country	A		B		C		D	
Year	Import	Export	Import	Export	Import	Export	Import	Export
2018	180	250	110	60	310	400	300	510
2019	190	270	120	60	320	410	320	480
2020	200	280	100	80	300	380	340	440
2021	190	280	80	80	340	370	330	410
2022	170	300	100	70	310	400	320	500

4. During which of the following years, the export over previous year is the highest percentage from the country 'B'?

   (a) 2022　　　　(b)2020　　　　(c) 2021　　　　(d) 2019

5. In the year 2019, which country had the highest percentage of export over import?

   (a)D　　　　(b) C　　　　(c)B　　　　(d) A

6. What is the ratio between volume of import in country 'B' in 2021 to that of the country 'D' in 2022?

   (a) 1: 3　　　　(b) 1 : 1　　　　(c) 1 : 2　　　　(d) 1 : 4

7. During which of the following years, the percentage of export over import is lowest for country ' D'?

   (a) 2019　　　　(b) 2020　　　　(c) 2021　　　　(d) 2022

8. The total export of country 'A' is approximately what percentage of total export of country 'B'?

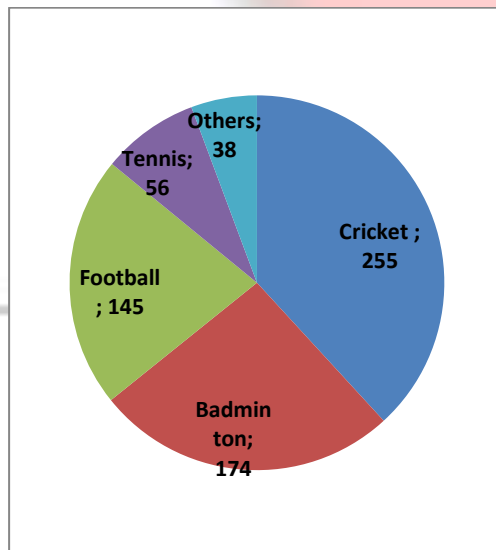   (a) 100　　　　(b) 200　　　　(c) 400　　　　(d) 300

The following graph represents the number of students got centum in three different subjects during 2019 to 2022. Study the following graph carefully and answer the given questions.
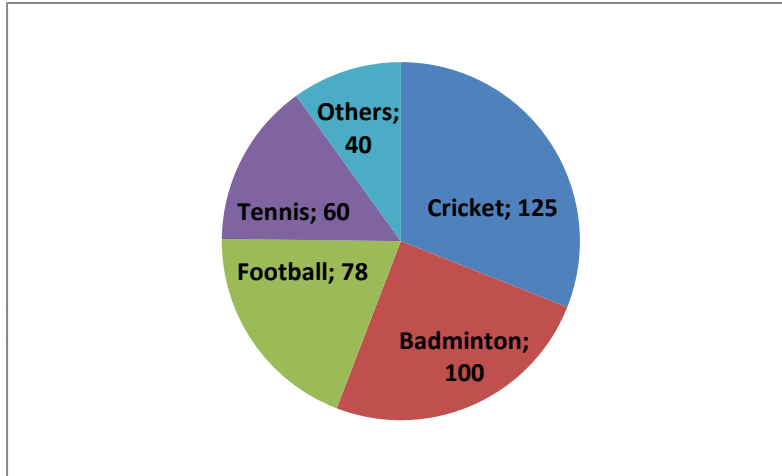
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9. In which of the following year the percentage of centum is more in Chemistry?
   (a) 2019   (b) 2021   (c) 2020   (d) 2022

10. What is the approximate percentage of centum increased in physics during 2021 over 2020?
    (a) 14%   (b) 16%   (c) 18%   (d) 20%

11. In which of the following year the percentage of centum is less in Mathematics compared to its previous year?
    (a) 2019   (b) 2020   (c) 2021   (d) 2022

12. What is the percentage of increase in centum in Chemistry from 2020 to 2021?
    (a) 20%   (b) 25%   (c) 30%   (d) 35%

13. In which of the year total number of centum in all subjects is less?
    (a) 2022   (b) 2019   (c) 2020   (d) 2021

The following two pie diagram shows the school children preferred the sports and game of two different region A & B. Study the pie charts and answer the following questions.

REGION A

REGION B

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14. Approximately what percentage of difference in the preference of cricket in Region A over Region B?
    (a) 20%   (b) 10%   (c) 30%   (d) 40%

15. What is the distribution ratio of badminton player's in both Region?
    (a) 1 : 1.75   (b) 2 : 5   (c) 3 : 10   (d) 2 : 4

16. How many more number do you need from others game to get 50% share of Cricket in Region A?
    (a) 49   (b) 59   (c) 69   (d) 79

17. Approximately what percentage of players is increase in football over tennis in Region B?
    (a) 2%   (b) 3%   (c) 5%   (d) 6%

18. Approximately what percentage of difference in the preference of other games in Region B over Region A?
    (a) 8.5%   (b) 10.5%   (c) 4. 5%   (d) 2.5%

19. What is the ratio of the total players in all the games in Region A over Region B?
    (a) 6 : 4   (b) 4 : 6   (c) 5 : 5   (d) 2 : 4

20. What is approximate increase in percentage of players in others games in Region B over Region A?
    (a) 5%   (b) 6%   (c) 4%   (d) 8%

Directions:

Read the following passage and choose the most correct answer from the choices given under each question.

Passage1

In the post - millennial era, the Indian economy has witnessed substantial growth, underpinned by a myriad of factors. According to data from the Reserve Bank of India (RBI), the country's Gross Domestic Product (GDP) has exhibited an upward trajectory, registering an average annual growth rate of approximately 7% between 2000 and 2021. This impressive expansion has positioned India as one of the world's fastest- growing major economics. Several key drives have fuelled this growth. Foreign Direct Investment (FDI) inflows have surged, reflecting investor confidence in India's economic potential. Additionally, economic reforms, including the introduction of the Goods and Services Tax (GST) and the "Make in India" initiative, have streamlined taxation and bolstered domestic manufacturing. However, challenges persist, including income inequality and unemployment. The Indian government has social welfare programs and skill development initiatives. As Indian navigates the complexities

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of the post millennial economic landscape, its commitment to sustainable growth and inclusive development remain unwavering.

21. What is the main focus of the passage?

   (a) A historical overview of India's economic growth

   (b) The challenges facing India's economy in the post - millennial era

   (c) An analysis of foreign investment in India

   (d) The impact of taxation on India's economy

22. What, according to the passage, has fuelled India's economic growth?

   (a) Declining FDI inflows

   (b) A lack of economic reforms

   (c) The introduction of GST

   (d) High income inequality

23. What are the challenges India continues to face despite its economic growth?

   (a) Low GDP growth rates

   (b) Income inequality and unemployment

   (c) Declining foreign investment

   (d) Lack of investor confidence

24. _____ is the source of the data for GDP growth rate mentioned in the passage.

   (a) The World Bank

   (b)The United Nations

   (c) The Reserve Bank of India

   (d) The International Monetary Fund

25. Which initiative aimed at streamlining taxation is highlighted in the passage?

   (a) The "Make in India" initiative

   (b) Skill development initiatives

   (c) GST initiatives

   (d)FDI initiatives

Directions:

Read the following passage and choose the most correct answer from the choices given under each question. Your answer must be based on the passage Only.

Passage 2

Global efforts to address the world environmental crisis are gaining momentum as nations recognize the urgency of the situation. Data from the Intergovernmental Panel on Climate Change (IPCC) underscores the need for immediate action, with temperature rises and extreme weather events on the rise. To combat these challenges, international agreements like the Paris Agreement have been pivotal. They set emission reduction targets and encourage the transition to renewable energy sources. Additionally, initiatives such as the United Nations Sustainable Development Goals (UNSDGs) promote sustainable practices world wide. Technological innovation plays a crucial role, with advancements in clean energy, carbon capture, and sustainable agriculture offering potential solutions. These innovations are essential for achieving carbon neutrality and mitigating the effects of climate change. Public awareness and education campaigns are vital components of the strategy, fostering a global environmental ethic, Engaging citizens in conservation efforts and promoting responsible consumption are integral to long- term sustainability . Ultimately, addressing the world environmental crisis necessitates collaboration, innovation, and a shared commitment to safeguarding the planet for future generations.

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26. The data from the IPCC highlights _____ in solving the environmental crisis.
    (a) The role of weather
    (b)Human skills
    (c) The need for human intervention
    (d) Generation of random responses

27. _____ international agreement played a pivotal role in addressing the environmental crisis.
    (a) IPCCC
    (b) The Paris Agreement
    (c) The UN Convention on Biological Diversity
    (d) The UNSDC

28. The passage highlights _____ as an integral component of the strategy for addressing the environmental crisis.
    (a) Ignoring the role of public awareness
    (b) Isolating individual nations' efforts
    (c) Public awareness and education campaigns.
    (d) Technological advancements alone

29. According to the passage, what is the role of initiatives like the United Nations SDGs?
    (a) They encourage unsustainable practices worldwide
    (b) They set emission reduction targets
    (c)They promote the use of fossil fuels
    (d) They ignore global environmental issues

30. The overall tone of the passage regarding global efforts to address the environmental crisis is _____.
    (a) Pessimistic   (b) Cynical   (c) Optimistic   (d) Indifferent

Directions :
Read the following passage and choose the most correct answer from the choices given under each questions.

Passage 1

In the heartland of Odisha, the echoes of centuries – old traditions resonate through the captivating movements of Odissi dance.This graceful art form, akin to poetry in motion, sweeps dancers and audiences alike into a mesmerizing whirlwind of expressions, intricate footwork , and storytelling. The very essence of Odissi can be summed up in the phrase "stepping on air". Dancers appear to defy gravity, their feet scarcely touching the ground, creating an illusion of weightlessness. The "rainbow of emotions" portrayed through their expressions transcends language, conveying profound feelings of love, longing , and devotion. Odissi is, in essence, a "jewel in Odisha's cultural crown," meticulously preserved and passed down through generations, it is more than an art form ; it is a "labour of love" for those who dedicate their lives to mastering it. While Odissi continues to flourish as an enduring cultural treasure, it serves as a remainder that the preservation of heritageis a "sacred trust" shared by all.

31. What is Odissi dance often compared to in the passage?
    (a) a whirlwind of emotions   (b) poetry in motion
    (c) a scientific experiment   (d) an illusion of weightlessness

32. What does the phrase "stepping on air" signify in the passage?
    (a) dancing with heavy steps   (b) defying gravity with light steps
    (c) dancing in the rain   (d) performing acrobatics

33. The phrase "jewel in Odisha's cultural crown" means that Odisha _____.
    (a) is a rich cultural hub   (b) is known for its jewels

(c) considers Odissi valuable   (d) lacks cultural diversity

34. What does the idiom "rainbow of emotions" means in the passage?
    (a) a display of various emotions   (b) a rainbow in the morning
    (c) a vivid display of colours   (d) an emotionless performance

35. The passage suggests that heritage preservation is_____.
    (a) not significant for cultural identity   (b) the sole responsibility of dancers.
    (c) irrelevant in the modern world   (d) a shared responsibility

Passage 2

In the annals of artificial intelligence, the Turning Test, proposed by Alan Turing in 1950, remains an enduring benchmark of machine intelligence. This test challenges a computer's ability to exhibit human – like conservation skills, blurring the line between artificial and human intelligence. To pass the Turing Test, a machine must engage in natural language conservation with a human evaluator who cannot distinguish whether they are conversing with a machine or another human. The Turning Test's significance lies in its profound implications for the field of AI and underscores the quest to create machines capable of human – level thinking and communication. However, some argue that the Turing Test is an inadequate measure of true machine intelligence , as it focuses on deception rather than genuine understanding.

36. The primary challenge posed by the Turing Test to computers is _____.
    (a) solving complex mathematical problems   (b) simulating human like conservation skills
    (c) mimicking physical human actions   (d) generating random responses

37. Turing Test blurs the line between artificial and human intelligence by _____.
    (a) requiring machines to perform physical tasks
    (b) evaluating a machine's natural language conservation skills.
    (c) assessing a machine's speed and accuracy
    (d) testing a machine's mathematical capabilities

38. The Turing Test ties to test the ability of artificial intelligence to create machines _____.
    (a) with human like physical abilities
    (b) with human level thinking and communication
    (c) that excel in mathematics
    (d) that can mimic animal behaviour

39. The Turing test evaluates a Machine's _____
    (a) ability to solve puzzles   (b) ability to mimic animal behaviours
    (c) natural language conservation skills   (d) physical strength

40. The statement that the Turing Test is universally accepted as capable of assessing machine intelligence is _____.
    (a) inaccurate   (b) accurate
    (c) neither accurate nor inaccurate   (d) both accurate and inaccurate

41. What is non – verbal communication , and why is it important in effective communication?
    (a) Written communication; it helps in keeping records
    (b) Communication without using words ; It conveys emotions, attitudes and feelings.
    (c) Using advanced vocabulary; it impresses the audience.
    (d) None of the above

42. Which of the following is an example of active listening?
    (a) Interrupting the speaker to share your own thoughts.
    (b) Nodding and maintaining eye contact while the speaker talks.
    (c) Focusing on your phone while the speaker is talking.
    (d) Ignoring the speaker's message.

43. How can one improve their public speaking skills?
    (a) Avoid practicing in front of a mirror .
    (b) Memorize the entire speech word for word.
    (c) Use visual aids to support key points.
    (d) Speak as fast as possible to finish quickly.

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44. What does assertiveness mean in communication?
    (a) Being overly aggressive and confrontational
    (b) Expressing one's thoughts, needs and feelings with confidence and respect.
    (c) Avoiding all forms of confrontation.
    (d) Always agreeing with others to avoid conflict

45. Which of the following is a common barrier to effective communication?
    (a) Active listening   (b) Clear and concise language
    (c) Noise in the environment   (d) Empathy

46. What is empathy, and why is it important in building positive relationships?
    (a) Understanding and sharing the feelings of other; It fosters understanding the trust.
    (b) Ignoring the emotions of others; It avoids unnecessary complications.
    (c) Manipulating the emotions of others for personal gain; It leads to success.
    (d) None of the above

47. How can one effectively manage conflicts in a team or workplace setting?
    (a) Avoiding all confrontations to maintain harmony
    (b) Ignoring conflicts and hoping they will resolve themselves.
    (c) Addressing conflicts directly, listening to all parties and seeking resolutions.
    (d) Blaming one person for all conflicts.

48. Describe a situation where active listening would be crucial for building a strong interpersonal relationship.
    (a) During a casual conservation with a colleague
    (b) when giving a presentation to a group
    (c) when a friend is sharing their feelings and concerns.
    (d) None of the above

49. What is the role of trust in interpersonal relationships?
    (a) Trust is not important in professional relationships
    (b) Trust is the foundation for healthy and strong relationships.
    (c) Trust is only necessary in personal relationships.
    (d) Trust hinders effective communications.

50. How can one effectively give and receive constructive feedback in a professional setting?
    (a) Avoid giving feedback to prevent conflicts
    (b) Be specific , focus on behavior and offer suggestions for improvements.
    (c) only give positive feedback to boost morale.
    (d) Receive feedback defensively and avoid making any changes.

51. What is the significance of self awareness in developing emotional intelligence?
    (a) It helps in understanding and managing one's own emotions.
    (b) it enables one to control the emotions of others.
    (c) it is not relevant to emotional intelligence.
    (d) It only involves awareness of other's emotions.

52. How can one enhance their ability to understand and emphasize with the emotions of others?
    (a) By ignoring the emotions of others.
    (b) By practicing active listening and prospective taking.
    (c) By avoiding emotional situations
    (d) By focusing only on one's own emotions.

53. What is a key aspect of effective teamwork?
    (a) Working independently to showcase individual skills.
    (b) Clear communication and natural respect among team members.
    (c) Avoiding sharing ideas to maintain personal credit
    (d) Ignoring the contributions of others.

54. Why is active listening important in conflict resolutions?
    (a) It prolongs conflicts by giving attention to different perspectives.
    (b) It helps in understanding the concerns and viewpoints of all parties involved.

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(c) It is not relevant to conflict resolutions.

(d) It only benefits one party in a conflict.

55. It all roses are flowers and some flowers fade quickly , can it be logically concluded that some roses fade quickly?

(a) Yes   (b) No

(c) May be   (d) Not enough information

56. Complete the series : 2, 5, 10, 17, ?

(a) 26   (b) 30   (c) 33   (d) 37

57. If A = 1, B = 2, C = 3 and so on, what is the value of CAT?

(a) 36   (b) 29   (c) 24   (d) 21

58. In a class of 30 students, 12 like Math, 18 like Science and 6 like both. How many students like either Math or Science?

(a) 24   (b) 18   (c) 30   (d) 12

59. If every dog has a tail, and Fido is a dog, can we conclude that Fido has a tail?

(a) Yes   (b) No

(c) May be   (d) Not enough information

60. What comes next in the series:

3, 6, 9, 12, ?

(a) 14   (b) 15   (c) 18   (d) 21

61. If all apples are fruits and some fruits are red, can we conclude that some apples are red?

(a) Yes   (b) No

(c) May be   (d) Not enough information

62. If MANGO is coded as 98562 , how would you code ORANGE?

(a) 812345   (b) 194763   (c) 491276   (d) 479261

63. If some cats are black and all black things are beautiful, can we conclude that some cats are beautiful?

(a) Yes   (b) No

(c) May be   (d) Not enough information

64. What is the next number in the series:

1, 4, 9, 16, ?

(a) 25   (b) 36   (c) 49   (d) 64

65. If all birds can fly and Tweety is a bird, can we conclude that Tweety can fly?

(a) Yes   (b) No

(c) May be   (d) Not enough information

66. Which word does not belong in the following group?

Apple, Banana, Orange, Mango, Pear

(a) Banana   (b) Mango   (c) Pear   (d) Orange

67. If 5 + 3 = 28, 9 + 1 = 810 and 8 + 6 = 214, what is 7 + 5 ?

(a) 56   (b) 1210   (c) 212   (d) 612

68. What comes next in the series:

10, 20, 30, 40

(a) 50   (b) 60   (c) 70   (d) 80

69. If some books are red and all red things are heavy , can we conclude that some books are heavy?

(a) yes   (b) no

(c) may be   (d) not enough information

70. You are the manager of a team working on a critical project. One of your team members consistently misses deadlines and does not communicate effectively. What would be your first step in addressing this issue?

(a) Assign more tasks to the team member

(b) Have a one – on – one meeting with the team member to discuss the issue.

(c) Ignore the problem and hope it resolves itself.

(d) Replace the team member with someone else.

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71. You are trying to choose between two job offers. Job A offers a higher salary, but longer working hours. Job B offers a lower salary, but a better work life balance. What is the best approach to making this decision?
    (a) Choose Job A for the higher salary
    (b) Choose Job A for the better work life balance.
    (c) Flip a coin to decide
    (d) List the pros and cons of each job and weight them against your priorities.

72. You have a tight deadline to complete a project, but you're facing technical difficulties. What should you do first?
    (a) Panic and try to rush through the project.
    (b) Seek help from a colleague or supervisor
    (c) Ignore the difficulties and hope for the best
    (d) Give up on the project.

73. You are a team leader and you have to assign tasks for a new project. One of your team members has a strong background in data analysis, while another is skilled in graphic design. Which task would you assign to each team member?
    (a) Assign data analysis to the team member with a background in data analysis, and graphic design to the others.
    (b) Assign graphic design to the team member with a background in data analysis, and data analysis to the other.
    (c) Let the team members choose their tasks.
    (d) Assign both tasks randomly

74. You are facing a complex problem at work and need to come up with a solution. What is the first step you should take?
    (a) Start implementing a solution right away.
    (b) Analyze the problem to understand its root cause.
    (c) Ask your colleagues for their opinions
    (d) Ignore the problem and hope it goes away

75. Is $(x > 5)$?
    Statement 1 : $(x^2 = 36)$
    Statement 2 : $(2x > 10)$
    (a) statement 1 alone is sufficient
    (b) Statement 2 alone is sufficient
    (c) Both statements together are sufficient
    (d) Neither statement Alone is sufficient.

76. Is the triangle (ABC) an equilateral triangle?
    Statement 1 : $(AB = AC)$
    Statement 2 : $(BC = 3)$ cm
    (a) statement 1 alone is sufficient
    (b) Statement 2 alone is sufficient
    (c) both statements together are sufficient
    (d) Neither statement alone is sufficient

77. Is $(p > q)$?
    Statement 1 : $(p – q > 0)$
    Statement 2 : $(pq > 0)$
    (a) statement 1 alone is sufficient
    (b) statement 2 alone is sufficient
    (c) Both statements together are sufficient
    (d) Neither statement alone is sufficient

78. Is (n) an even number?
    Statement 1 : (n^2) is an even number
    Statement 2 : $(n + 2)$ is an even number

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(a) statement 1 alone is sufficient

(b) statement 2 alone is sufficient

(c) Both statements together are sufficient

(d) Neither statement alone is sufficient

79. Which word does not belong in the following group?

Square, Circle, Rectangle, Triangle, Oval

(a) Square   (b) Circle   (c) Rectangle   (d) Triangle

80. If 6 × 2 = 24, 8 × 3 = 48 and 12 × 5 = 60, what is 10 × 4?

(a) 30   (b) 40   (c) 50   (d) 60

81. What comes next in the series:

2, 4, 8, 16, ?

(a) 24   (b) 32   (c) 48   (d) 64

82. If all cats have tails and Fluffy is a cat, can we conclude that Fluffy has a tail?

(a) Yes   (b) No   (c) Maybe   (d) Not enough information

83. Which word does not belong in the following group?

Piano, Guitar, Violin, Drum, Paintbrush

(a) Piano   (b) Guitar   (c) Drum   (d) Paintbrush

84. Complete the series : 5, 10,20, 40, ?

(a) 60   (b) 80   (c) 100   (d) 120

85. Which word does not belong in the following group?

Mars, Venus, Jupiter, Saturn, Sun

(a) Mars   (b) Venus   (c) Sun   (d) Saturn

86. Which of the following words is an antonym of "Benevolent"?

(a) Cruel   (b) Kind   (c) Generous   (d) Altruistic

87. Which word does not belong in the following group?

Lion, Elephant, Tiger, Snake, Banana

(a) Lion   (b) Elephant   (c) Tiger   (d) Banana

88. If P is the mother of Q and Q is the brother of R, what is the relationship between P and R?

(a) Aunt and nephew   (b) Mother and son

(c) Mother and daughter   (d) Sister and brother

89. Sonia takes 18 minutes while Ravi takes 12 minutes to complete one round of a circular path of sports field. They start at the same point and time, and go in the same direction. They will meet again at the starting point after _____ minutes

(a) 24   (b) 36   (c) 48   (d) 54

90. If we add 1 to numerator and subtract 1 from denominator, a fraction reduces to 1. It becomes $\frac{1}{2}$ if we only add 1 to the denominator. The fraction is :

(a) $\frac{9}{11}$ (b) $\frac{5}{9}$ (c) $\frac{3}{5}$ (d) $\frac{2}{3}$

91. The ratio of income of two persons is 9 : 7 and the ratio of the expenditures is 4 : 3. If each of them manages to save Rs. 2, 000 per month, then the monthly incomes of two persons are respectively :

(a) Rs. 4, 500 and Rs. 3, 500   (b) Rs. 9, 000 and Rs. 7, 000

(c) Rs. 13, 500 and Rs. 10, 500   (d) Rs. 18, 000 and Rs. 14, 000

92. Sum of areas of two squares is 468m2. If the difference of their perimeters is 24 m then the sides of two squares are :

(a) 12 m and 6m   (b) 18 m and 12 m   (c) 24 m and 18 m   (d) 30 m and 24 m

93. Five years ago Ram was thrice as old as Shayam. Ten years later, Ram will be twice as old as Shyam. The present age of Shayam is :

    (a) 20 years   (b) 25 years   (c) 30 years   (d) 35 years

94. The sum of the first 20 positive integers divisible by 6 is ::

    (a) 1200   (b) 1260   (c) 1320   (d) 1380

95. How many two digit numbers are divisible by 3?

    (a) 33   (b) 32   (c) 30   (d) 29

96. A cone of height 24 cm and radius of base 6 cm is made up of modelling clay. A child reshapes it in the form of a sphere. The Diameter of the sphere in cm is :

    (a) 6   (b) 8   (c) 10   (d) 12

97. $\dfrac{9^{1/3} \times 27^{-1/2}}{3^{1/6} \times 3^{-2/3}}$ is equal to

    (a) $3^{-1/3}$ (b) $3^{1/3}$ (c) $3^{2/3}$ (d) 3

98. The greatest numbers among 3^{198}, 2^{764}, 9^{100} and 81^{49} is :

    (a) 3^{198} (b) 27^{64} (c) 9^{100} (d) 81^{49}

99. The perimeter of one face of cube is 40 cm, then sum of lengths of its all edges is :

    (a) 80cm   (b) 120cm   (c) 160cm   (d) 240cm

100. If volume of two cubes are in ratio 27 : 8 then their surface area are in ratio

    (a) 2 : 3   (b) 3 : 2   (c) 4 : 9   (d) 9: 4

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