



AL-AMEEN OLYMPIAD 2024

CLASS-VII

Full Marks: 100

Time: 3 hours

ENGLISH

Choose the most suitable answers:

1. Rob: Have you ever eaten something unusual?

Bob: Yes, _____

- (A) I have (B) they have (C) I got (D) I do have

2. Kapil: Hey Nitin, I'm free now, my friend what do you want? Nitin: _____

- (A) It could be very kind of you to get some bread.
(B) I may be grateful if you would get me some bread.
(C) Do me a favor, will you? Get me some bread.
(D) I shall really appreciate it if you shall get me some bread.

3. The statement 'He works hard' is considered correct because:

- (A) It reflects his habit. (B) It reflects habitual action.
(C) Working hard is a universal truth. (D) Hard work is everyone's duty.

4. 'It is time, we went home' is correct because,

- (A) It expresses we go home timely
(B) It expresses a good habit of balance between home and work.
(C) 'It is time' means Past indefinite.
(D) It expresses present obligation, suggestion necessity

Choose the Correct options:

5. He _____ a book when I saw him.

- (A) Buy (B) is buying (C) was buying (D) bought

Change the voice of the following:-

6. I had lost the ring.

- (A) The ring had been lost by me. (B) The ring had lost me.
(C) The ring had Losing me. (D) The lost ring had been mire.

7. When the active voice is in Simple Present, the auxiliary used in passive voice will be

- i) Is ii) was iii) Are iv) Were
(A) i & iv (B) ii & iii (C) i & iii (D) i & ii

8. People call him Mahatma. (Change into Passive voice)

- (A) Who calls him Mahatma? (B) He is called Mahatma.
(C) People and Mahatma call him. (D) He calls people Mahatma.

9. By whom was America discovered? (Change to Active)

- (A) America discovered whom? (B) Whom did America discover?
(C) Who discover America? (D) Who discovered America?

10. Change the voice of 'The poor man killed himself.'

- (A) It was killed by poor men
- (B) The poor man was killed by him
- (C) Himself was killed by poor man
- (D) Himself is reflexive pronoun which cannot undergo voice change /None

Rearrange the words to make meaningful sentences:-

11. Walking while Saw I a dead Cat the garden in.

- (A) While a dead cat walking saw I in the garden.
- (B) Cat walking dead saw while I the in a garden.
- (C) A dead cat was walking in the garden I saw.
- (D) While walking in the garden I saw a dead cat.

12. Working by hard well-known became she

- (A) By hard working she well-known become
- (B) By working hard she became well known
- (C) By working she became hard well known
- (D) She became hard working and well know

13. 'He knows I think what you want' the underlined part is an example of ...

- (A) Co-ordinate clause
- (B) Subordinate clause
- (C) Principal clause
- (D) Connective clause

14. 'This is the man who did it.' this underlined adjective clause is also an example of

- (A) Principal clause
- (B) Subordinate clause
- (C) Co-ordinate phrase
- (D) Interrogative form

15. She will say, "I am playing football" (Make it indirect)

- (A) She will say I am playing football
- (B) She will say I was playing football
- (C) She will say I is playing football
- (D) She will say she was playing football

16. He said to me, "Were they going to school now?" (Change to indirect)

- (A) He said to me they were going to school now
- (B) He asked me if they were going to school then
- (C) He asked me if we were going to school now
- (D) He asked me if were we going to school then

17. He said to his servant, "come here". He ordered his servant to go there

The underline sentence is an example of

- (A) Direct speech in interrogative sentence
- (B) Direct speech in portative sentence
- (C) Direct speech and exclamatory sentence
- (D) Direct speech in imperative sentence

18. Grandmother prayed that God might bless me (Change it to direct speech)

- (A) Grandmother said, "God will bless me"
- (B) Grandmother said, "May God bless me"
- (C) Grandmother said, "May God bless me?"
- (D) Grandmother said, "May god bless you"

19. She carried out in excitement that it was a beautiful saree.

(Change it to Direct speech)

- (A) She said, "what a beautiful saree it is!"
- (B) She said, "I am crying the is beautiful"
- (C) She said, "what a beautiful it was!"
- (D) She said, "what a beautiful it is."

20. He said, "Alas! I am mined" (Change it to Indirect speech)

- (A) He explained he was mined.
- (B) He exclaimed with grief he had mined.
- (C) He exclaimed with grief he was mined.
- (D) He exclaimed with delight he was mined.

Choose the correct preposition

21. He is hiding _____ the bed.

- (A) under (B) over (C) on (D) at

22. She is fond _____ singing.

- (A) by (B) for (C) of (D) on

23. Which of the following is the correct form of the verb in the Present Perfect tense?

- (A) She will read the book. (B) She has read the book.
- (C) She is reading the book. (D) She reads the book.

24. Choose the sentence that is in the Past Continuous tense:

- (A) He is writing a letter. (B) He was writing a letter.
- (C) He writes a letter. (D) He has written a letter.

25. Which punctuation is used to indicate a direct question?

- (A) Period (B) Comma (C) Question Mark (D) Full stop

SOCIAL SCIENCE

26. Which layer of the Earth is composed primarily of iron and nickel?

- (A) Crust (B) Mantle (C) Outer Core (D) Inner Core

27. Which of the following landforms is formed by the deposition of sediment at the mouth of a river?

- (A) Plateau (B) Delta (C) Canyon (D) Hill

28. What is the main reason for the occurrence of earthquakes?

- A) Weathering of rocks B) Movements of tectonic plates
- C) Erosion by rivers D) Formation of mountains

29. The ozone layer with the molecular formula _____ is responsible to protect Earth from UV rays:-

- A) O B) O₂ C) O₃ D) O₄

30. Which layer of the Earth's atmosphere does most of the water cycle occur in?

- A) Troposphere B) Stratosphere C) Mesosphere D) Thermosphere

31. Which of the following best defines an endangered species?

- A) A species that is common and widespread
- B) A species that has no natural predators
- C) A species at risk of extinction
- D) A species that migrates seasonally

32. Which of the following animals is best adapted to life in the desert?

- A) Polar bear B) Camel C) Penguin D) Elephant

33. Desert soils are generally known to be:

- A) Fertile and full of nutrients B) Rich in organic matter
- C) Sandy and poor in nutrients D) Clayey and water-retentive

34. What is an oasis?

- A) A large desert region B) A type of desert animal
- C) A fertile area in a desert with water D) A sand dune formation

35. Who was the only female ruler of the Delhi Sultanate?

- A) Noor Jahan B) Rani Padmini C) Razia Sultanad D) Chand Bibi

36. Match the following Mughal Emperors with the relative incidents_____

- | | |
|----------------|-----------------------------------|
| i) Akbar | a) Cultural peak of Mughal Empire |
| ii) Babur | b) Founder of Mughal Empire |
| iii) Jahangir | c) Religious tolerance |
| iv) Shah Jahan | d) Faced revolt by Prince Khusrau |

A) 1-d | 2-a | 3-b | 4-c

B) 1-c | 2-b | 3-d | 4-a

C) 1-c | 2-d | 3-a | 4-b

D) 1-d | 2-c | 3-d | 4-a

37. Which of the following was a famous nomadic tribe in India?

- A) Rajputs B) Gonds C) Banjaras D) Marathas

38. The movement of nomadic tribes was often influenced by:

- A) Changing seasons B) Architectural plans
- C) Political treaties D) Festivals

39. The right to vote in a democracy is known as:

- (A) Freedom of speech B) Universal adult franchise
- C) Judicial review D) Economic equality

40. What term refers to discrimination based on social and economic status?

- A) Equality B) Social hierarchy C) Inequality D) Democracy

41. What is the primary function of the Lok Sabha?

- A) To make laws for the entire country B) To represent the people of India
- C) To elect the President D) To administer the government

42. Which of these houses of legislature is directly elected by the people at national elections?

- A) State legislative assembly B) Lok Sabha
- C) Rajya sabha D) State legislative council

43. The Rajya Sabha is also known as the _____:

A) Upper House B) Lower House C) Direct House D) People's House

44. The Prime Minister of India is appointed by the _____:

A) President of India B) Lok Sabha C) Rajya Sabha D) Chief Justice of India

45. Who is the head of the state government in India?

A) The President B) The Chief Minister C) The Governor D) The Prime Minister

46. Which of the following is a power of the State Legislative Assembly (Vidhan Sabha)?

- A) Approving the Union Budget
- B) Passing laws on subjects in the Concurrent List
- C) Appointing the Chief Minister
- D) Making laws on subjects in the State List

47. Reporting on government policies and exposing wrongdoings is a prime characteristic of which of these institutions?

A) Media B) legislature C) Executive D) Judiciary

48. What is the role of social media in a democracy?

- A) It helps to increase government control
- B) It allows citizens to express their views and engage in public debates
- C) It directly creates policies for the country
- D) It is used only for entertainment purposes

49. Who is the present education minister of Assam?

A) Ranoj Pegu B) Himanta Sharma C) Narendra Modi D) Sanjoy Kishan

50. Which type of rock is primarily formed due to volcanic activity?

A) Sedimentary B) Metamorphic C) Igneous D) Fossiliferous

GENERAL MATHS

51. Given that-

$$\text{😊} + \text{😊} + \text{😞} = \text{😞} + \text{😞} + \text{😞} + \text{😞} + \text{😞}$$

If each 😞 stands for $\frac{1}{4}$, what does each 😊 stands for?

- (A) $\frac{3}{4}$ (B) $\frac{3}{2}$ (C) $\frac{3}{8}$ (D) $\frac{3}{5}$

52. Shahab used the rule listed below to re-write the expression

$$10^2 \times 10^5 = 10^7$$

$$10^m \times 10^n = 10^{m+n}$$

Based on this rule, which of the following is equivalent to the expression

$$8^{-8} \times 8^6?$$

- (A) 8^{-10} , because $8^{-4} \times 8^6 = 8^{-4-6}$
- (B) 8^{-12} , because $8^{-4} \times 8^{-8} = 8^{-4-8}$
- (C) 8^{-2} , because $8^{-8} \times 8^6 = 8^{-8+6}$
- (D) 8^2 , because $8^{-4} \times 8^6 = 8^{-4+6}$

53. If '+' means \div , '-' means \times , ' \div ' means '+' and ' \times ' means ' \times ' means '-', then

$$320 \div 225 + 15 \times 15 - 85 = ?$$

- (A) 180 (B) 140 (C) 60 (D) -940

54. Read the given statement carefully and select the correct option-

Statement-I- If four quantities a, b, c and d are such that the ratio a:b is equal to the ratio c:d, then we say a, b, c and d are in ratio a:b:c:d.

Statement-II- If a: b=5:9 and b:c=4:7 then a:b:c=20:36:63

- (A) Both Statement-I and Statement-II are true.
 (B) Statement-I is true but Statement-II is false.
 (C) Statement-I is false but Statement-II is true.
 (D) Both Statement-I and Statement-II are false.

55. The simplified value of $\frac{2 \times 3^{x+1} + 7 \times 3^{x-1}}{3^{x+2} - 2(\frac{1}{3})^{1-x}}$ is-

- (A) 1 (B) 3 (C) -1 (D) 0

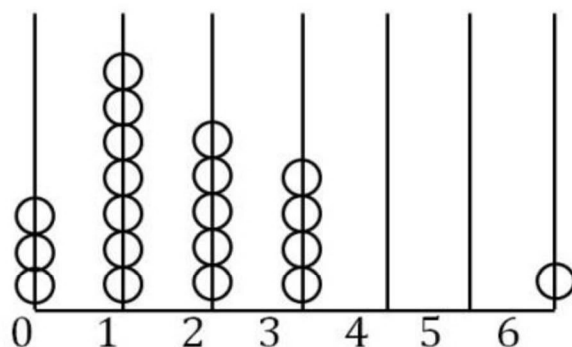
56. For two rational numbers x and y which of the following statements is always true?

- (A) $\frac{x-y}{2}$ is a rational number between x and y
 (B) $\frac{x+y}{2}$ is a rational number between x and y
 (C) $\frac{xy}{2}$ is a rational number between x and y
 (D) $\frac{x \div y}{2}$ is a rational number between x and y

57. If $4^x + 4^x + 4^x + 4^x + 4^x + 4^x + 4^x + 4^x = \frac{1}{512}$, then what is the value of $\frac{-3}{x}$?

- (A) 0.50 (B) 0.75 (C) -0.75 (D) -4.25

58. The dot diagram shows the number of children living in the houses on a cerkin road.



Find the probability of the house having exactly 2 children. (O = one house)

- (A) $\frac{1}{4}$ (B) $\frac{2}{3}$ (C) $\frac{3}{4}$ (D) $\frac{1}{5}$

59. Zero is _____ .

- (A) The identity of addition of real numbers.
- (B) The identity of subtraction of real numbers.
- (C) The identity of multiplication of real numbers.
- (D) The identity of division of real numbers.

60. The numerical expression $\frac{3}{8} + \frac{(-5)}{7} = \frac{-19}{56}$ shows that –

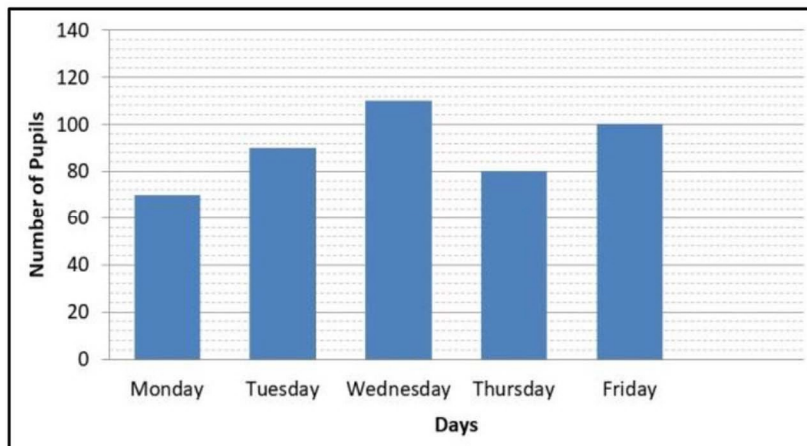
- (A) Rational numbers are closed under addition.
- (B) Rational numbers are not closed under addition.
- (C) Rational numbers are not closed under multiplication.
- (D) Addition of rational number is not commutative.

61. A student was asked to solve the fraction

$\frac{\frac{7}{3} + 1\frac{1}{2} \text{ of } \frac{5}{3}}{2 + 1\frac{2}{3}}$ and his answer was $\frac{1}{4}$. By how much was his answer wrong?

- (A) 1
- (B) $\frac{1}{55}$
- (C) $\frac{1}{220}$
- (D) None of these.

62. The given bar graph shows the number of pupils who participated in the race competition on five different days in a week.



What percent of the total number of pupils participated in the race competition on Monday & Wednesday together?

- (A) 40%
- (B) 32%
- (C) 20%
- (D) 35%

63. Rajesh scored 61 out of 100 in English, 93 out of 100 in Math and 56 out of 100 in science. Find out his average per hundred.

- (A) 60
- (B) 70
- (C) 75
- (D) 80

64. If $5^{3x+2} = 25 \times 5^{(4x-1)}$, then find the value of x .

- (A) 1
- (B) 2
- (C) -1
- (D) 3

65. If x is 30% of z and y is 60% of z , then x is what percentage of y ?

- (A) 30%
- (B) 50%
- (C) 100%
- (D) 60%

66. If A is 50% more than B, then B is less than A by _____.

- (A) $33\frac{1}{3}\%$ (B) 25% (C) 50% (D) $66\frac{2}{3}\%$

67. In Shimla minimum temperature on Tuesday was 25°C . On Wednesday, it fell by 3°C and due to rainfall on Thursday, it further fell by 4°C . What was the average minimum temperature of these days

- (A) 20°C (B) 22°C (C) $(\frac{65}{3})^{\circ}\text{C}$ (D) 21°C

68. Simplify:

$$\frac{(q+\frac{1}{p})^m(q-\frac{1}{p})^m}{(p+\frac{1}{q})^m(p-\frac{1}{q})^m}$$

- (A) 0 (B) 1 (C) $(\frac{p}{q})^{2m}$ (D) $(\frac{q}{p})^{2m}$

69. S.I. on a certain sum is one-fifth of the sum and the interest rate per annum is 5 times the number of years. If the rate of interest increases by 3%, then how much will the simple interest (in ₹) be on ₹5600 for 6 years?

- (A) 4668 (B) 4168 (C) 4268 (D) 4368

70. Evaluate the expression-

$$\frac{5^2 \times 7^3 \times 11^3 \times 7^2}{2^2 \times 11 \times 7^5 \times 5^{-4}}$$

- (A) $2^{-2} \times 5^6 \times 7^2 \times 11^4$ (B) $2^{-2} \times 7^2 \times 11^4$
 (C) $2^{-2} \times 5^6 \times 11^4$ (D) a. $2^{-5} \times 5^6 \times 7^2 \times 11^4$

71. Two congruent triangles are-

- (A) always similar (B) not identical
 (C) May not be similar always (D) can never be similar

72. If

$$x <$$

$\frac{5}{2}$, then which Natural numbers can be the possible values of x ?

- (A) 0, 1 (B) 1, 2 (C) 2, 3 (D) 1, 3

73. Between any two rational numbers, there are-

- (A) Infinitely many rational numbers. (B) Finitely many rational numbers.
 (C) No rational numbers. (D) Atleast one natural number.

74. If E is an event of an experiment and if $P(E) + P(\bar{E}) = x$, then $x - 1$ is equal to –

- (A) 0 (B) -1 (C) 1 (D) -2

75. Shortest distance between two intersecting lines is-

- (A) a positive constant (B) 0
 (C) a negative constant (D) is same as the distance between two parallel lines

GENERAL SCIENCE

Q: Shuheraj is training for his marathon. During his long runs, he noticed that his breathing rate increased significantly and sometimes he felt cramps in his legs. His coach explained that this happens because the body needs more energy during prolonged exercise. Shuheraj also learned that the cramps results from the accumulation of lactic acid in his muscles due to anaerobic respiration to prevent this, his coach advised him to maintain a steady pace and stay hydrated. After finishing his training, he often relaxes with a hot both to ease muscle soreness.

76. Which of the following methods helps Shuheraj recover from muscle cramps most effectively?

- (A) Increasing his oxygen in take during exercise.
- (B) Taking pain killers immediately after running.
- (C) Improving blood circulation with a hot bath or massage
- (D) Consuming sugar rich foods immediately

77. Shuheraj's coach advises him to stay hydrated. How much this help during exercise?

- (A) Water breaks down lactic acid in the muscles
- (B) Proper hydration ensures better oxygen transport in the blood.
- (C) Staying hydrated prevents anaerobic respiration entirely.
- (D) Water reduces the glucose break down in cells.

78. What would happen to the breathing rate after a brisk walk?

- (A) It remains constant
- (B) It decrease gradually
- (C) It increases to meet the oxygen demand
- (D) It alternates between fast and slow

79. Which of the following statements is correct during inhalation:

- (A) The diaphragm moves up and ribs move in word
- (B) The chest cavity decreases in size
- (C) The diaphragm moves down & ribs move outward
- (D) Air is pushed out of the lungs

80. What is the primary reason why groundwater near landfall sites may become contaminated?

- (A) Excessive rain water
- (B) contact with deposited water
- (C) Use of plastic bens for waste collection
- (D) Manual sorting of toxic waste.

81. Which of the following is NOT a principle of waste management discussed in the text?

- (A) reduce (B) recycle (C) refuse (D) reconsider

82. Why do plants not have specialized respiratory organs like lungs?

- (A) They do not respire
(B) Their cells independently exchange gases through stomata & other parts.
(C) Oxygen is not required for their energy needs.
(D) They use photosynthesis for energy instead of respiration.

83. Which of the following does not match correctly with its mode of respiration?

- (A) Earthworm – Moist skin (B) fish – gills
(C) cockroach – tracheal tubes (D) Frog – spiracles

84. E-waste is particularly hazardous because it contains-

- (A) Flammable materials
(B) Dangerous contaminants
(C) Biodegradable substances
(D) Recyclable metals only.

85. What is the purpose of segregation of waste at source?

- (A) To reduce cost of transportation
(B) To categorise waste into reusable & non-reusable categories
(C) To allow quicker decomposition of all material
(D) To generate more waste for recycling.

86. How many of the following acids are found in nature

Acetic acid, formic acid, citric acid, lactic acid, oxalic acid, tartaric acid, phosphoric acid, perchloric acid

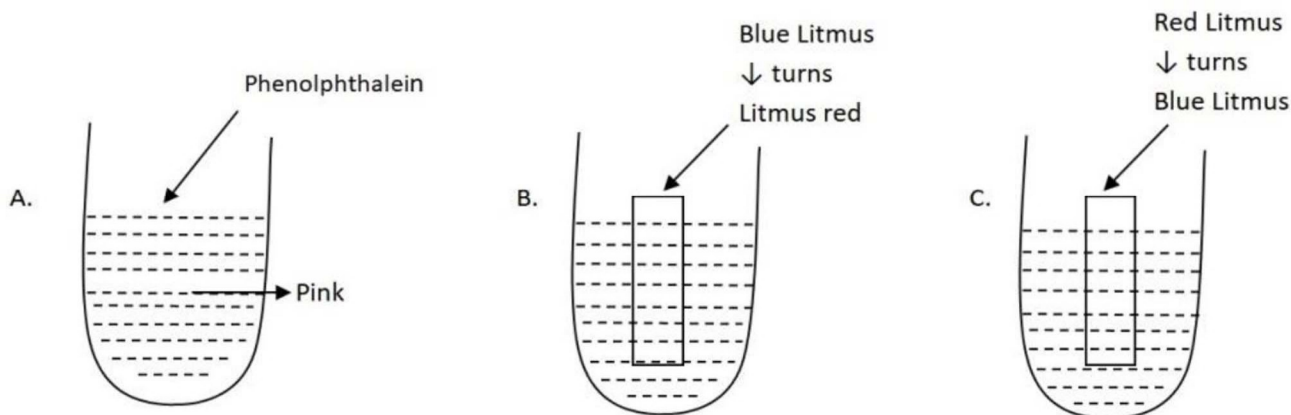
Options:

- (A) 5 (B) 4 (C) 7 (D) 9

87. An ant bites, it injects _____[Ⓐ] acids into the skin. The effect of the acid can be neutralised by rubbing _____[Ⓑ] or _____[Ⓒ] solution which contains _____[Ⓓ]. Fill in the blanks:

- (A) A= methanoic acid, B= moist baking soda, C= calamine, D= zinc carbonate
(B) A = calamine acid, B= dry baking soda, C= zincate D= zinc carbonate
(C) A= Formic acid, B = moist baking soda, C = calamine, D= zinc carbonate
(D) A= formic acid, B= methanoic acid, C= calamine, D= zinc carbonate

88. Choose the correct option.



(A) A= acid , B= acid ,C= base

(B) A= base, B= acid. C= acid

(C) A= acid ,B = base,C=acid

(D) A= base,B= acid, C= base

89. From the above diagram, choose the correct option given below



_____ ① _____ what is the formula of rust.

_____ ② _____ which of the following molecules/ compound are essential for rusting

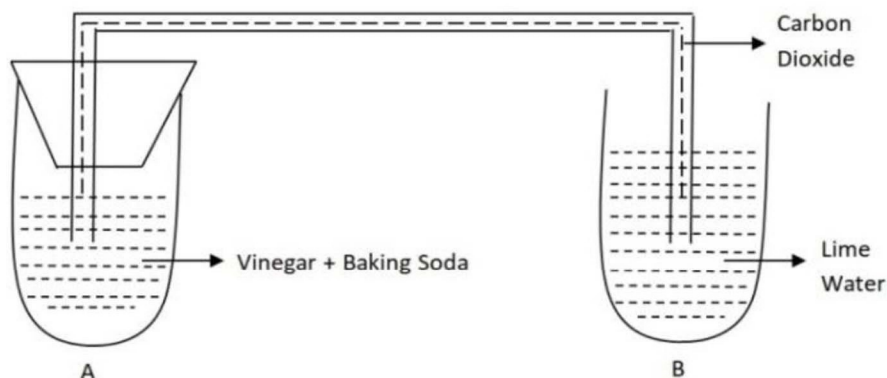
(A) A= Feo, B= O_2 and H_2

(B) A = FeO_2 , B = O_2 and H_2O

(C) A= Fe_2O_3 , B= O_2 and H_2O

(D) A = Fe_3O_4 , B= O_2 and HCl

90.



Based on the above diagram choose the correct reaction that will take place on B

(A) $CO_2 + CaCO_2 \rightarrow CaC_2O_3 + H_2O$

(B) $CO_2 + Ca(OH)_2 \rightarrow CaO_3 + \text{water}$

(C) $CO_2 + Ca(OH)_2 \rightarrow CaCH_2 + CO_2$

(D) Carbon dioxide does not react with lime water

91. Rita is always complaining about iron articles rusting so fast.

Q: Where do you think Rita lives. Depositing the layer of which metal would solve her problem

- (A) Rita lives a dry place, Aluminium. (B) Rita lives in a moist place, copper
(C) Rita lives near the coast, zinc (D) Rita lives near the desert, Aluminium.

92. When milk is left outside in weather, it turns sour (changes-(A)). The sour milk is then churned to separate butter (changes-(B)). The following statements describe these changes. Choose the correct one:

- (A) Process-A is a physical change and process-B is a chemical changes.
(B) Process –A is a chemical changes and process-B is a physical changes.
(C) Both process A and B are physical changes.
(D) Both process A and B are chemical changes

93. A point objects P moves towards a convex mirror with a constant speed 'v' along its optical axis. The speed of the image.

- (A) Is always less than v
(B) Is always more than v
(C) is equal to v
(D) Decreases as P comes closer to the mirror



94. A pendulum takes 0.5s to make one oscillation about its mean position. How long will it take to make 5 oscillations?

- (A) 5s (B) 7.5s (C) 2.5s (D) 10s

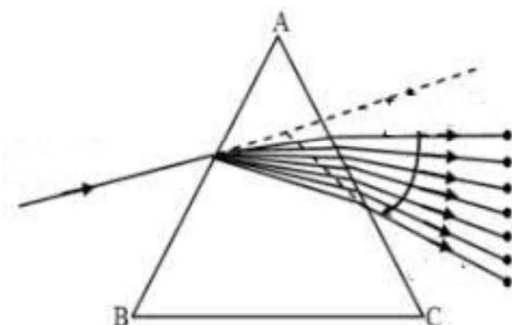
95. Choose the perfect option matching from the given definition:- "The length of the path travelled by light in vaccum during a time interval of $\frac{1}{299,792,458}$ of a second.

- (A) Kelvin (k) (B) metre(m) (C) Ampere (A) (D) Second(s)

96. How did the Newton's disk work?

- (A) By refracting light through a prison.
(B) By rotating a disk with coloured sectors.
(C) By reflecting light off a mirror.
(D) By passing light through a lens.

97.

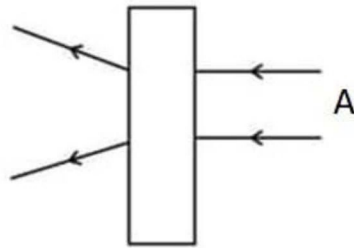


Identify the correct sequence from the provided data

- | | | | |
|---------------|---------------|---------------|------------|
| (A) 1- Violet | (B) 1- Violet | (C) 1- Indigo | (D) 1- Red |
| 2- Indigo | 2- Indigo | 2- Violet | 2- Orange |
| 3- Blue | 3- Green | 3- Yellow | 3- Yellow |
| 4- Green | 4- Yellow | 4- Blue | 4- Green |
| 5- Yellow | 5- Blue | 5- Red | 5- Blue |
| 6- Orange | 6- Red | 6- Orange | 6- Indigo |
| 7- Red | 7- Orange | 7- Green | 7- Violet |

98. Observe the figure and decode the question:

The given figure shows the path of light through lenses represented by 'box A'.
What type of object the box 'A' is:



- (A) Plane Mirror (B) Concave Mirror (C) Concave Lens (D) Convex Lens

99. A car travels from X and Y with speed 45 km/h and turns to X with 30 km/h. What is the average speed of the vehicles?

- (A) 45 km/h (B) 30 km/h (C) 48 km/h (D) 36 km/h

100. A vehicle's odometer reads 5000 km at the start of a journey and 5075 km at the end. If the journey took 2 hours, what was the average speed of the vehicles?

- (A) 37.5 km/h. (B) 40km/h. (C) 75.km/h. (D) 40 km/h
