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ACC 128

(CEE)

Previous Year Paper
Feb, 2023



**COMMON ENTRANCE EXAMINATION FOR ACC, PC(SL) AND
SCO - FEB 2023**

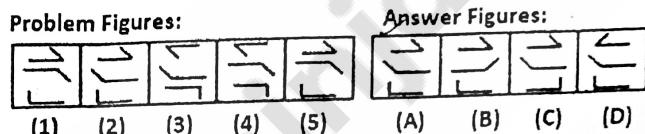
PART - I : REASONING

If Orange is called Butter, Butter is called Soap, Soap is called Ink, Ink is called Honey and Honey is called Orange. Which of the following is used for washing clothes?

- a. Butter
- b. Honey
- c. Orange
- d. Ink

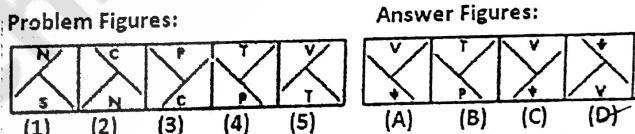
1. Select a figure from amongst the Answer Figures which will continue the same series as established by the Problem Figures.

- a. A
- b. C
- c. D
- d. B



2. Select a figure from amongst the Answer Figures which will continue the same series as established by the Problem Figures.

- a. D
- b. C
- c. B
- d. A



3. Anil is facing the East. He then turns 90° clockwise and then 135° anti-clockwise. In which direction is he facing now?

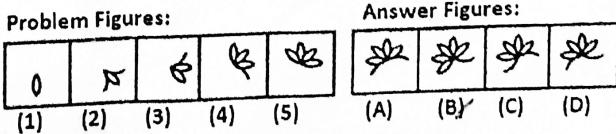
- a. North-East
- b. South-West
- c. West
- d. North

4. OCEAN : WATER :: GLACIER : ?

- a. CAVE
- b. ICE
- c. MOUNTAIN
- d. FRIDGE

5. Select a figure from amongst the Answer Figures which will continue the same series as established by the Problem Figures.

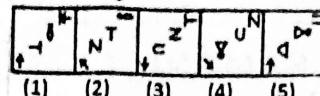
- a. A
- b. C
- c. D
- d. B



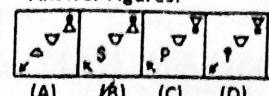
✓ 7. Select a figure from amongst the Answer Figures which will continue the same series as established by the Problem Figures.

a. B
b. D
c. C
d. A

Problem Figures:

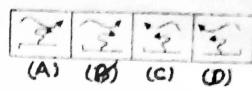
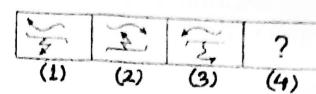


Answer Figures:



✓ 8. Figure (1) and (2) are related in a particular way or manner. Establish the same relationship between (3) and (4) choosing from four alternatives.

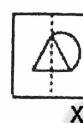
a. D
b. B
c. C
d. A



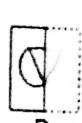
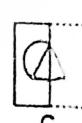
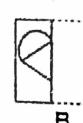
✓ 9. Find out from amongst the four alternatives of Answer Figures as to how the pattern would appear when the transparent sheet is folded at the dotted line (Question Figure)

a. C
b. D
c. B
d. A

Problem Figures:



Answer Figures:



✓ 10. Select a figure from amongst the Answer Figures which will continue the same series as established by the Problem Figures.

a. D
b. A
c. C
d. B

Problem Figures:



Answer Figures:



✓ 11. If 'P' means '+', 'Q' means '−', 'R' means 'X'; and 'S' means 'V'; then $54 S 9 R 3 Q 3 P 12 R 2$ is equal to:

a. 38
b. 37
c. 40
d. 39

✓ 12. $9, 11, ?, 31, 51, 82$

a. 20
b. 30
c. 15

b. 37
d. 39

b. 30
d. 25

$$\begin{array}{r}
 3 \ 1 \ 3 \ 11 \\
 2 \ 0 \ 1 \ 9 \\
 \hline
 1 \ 1 \ 9
 \end{array}$$

$$\begin{array}{r}
 9 \ 11 \ 13 \ 31 \ 51 \\
 \hline
 2 \ 3 \ 5 \ 7 \ 11
 \end{array}$$

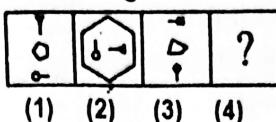
$$\begin{array}{r}
 82 \\
 31 \ 11 \\
 \hline
 20
 \end{array}$$

$$\begin{array}{r}
 31 \\
 11 \\
 \hline
 20
 \end{array}$$

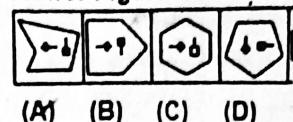
3. Two sets of figures have been given below. Figures 1, 2, 3 and 4 constitute the Problem Set while figures A, B, C and D constitute the Answer Set. There is a definite relationship between figures 1 and 2. Establish a similar relationship between figures 3 and 4 by selecting a suitable figure from the Answer Set that would replace the question mark (?) in fig. (4). Select a suitable figure from the Answer Figures that would replace the question mark (?).

- a. C
- b. B
- c. A
- d. D

Problem Figures:



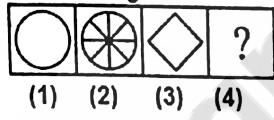
Answer Figures:



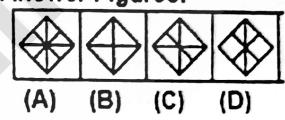
14. Two sets of figures have been given below. Figures 1, 2, 3 and 4 constitute the Problem Set while figures A, B, C and D constitute the Answer Set. There is a definite relationship between figures 1 and 2. Establish a similar relationship between figures 3 and 4 by selecting a suitable figure from the Answer Set that would replace the question mark (?) in fig. (4). Select a suitable figure from the Answer Figures that would replace the question mark (?).

- a. D
- b. C
- c. B
- d. A

Problem Figures:



Answer Figures:



$$54 \div 9 \times 3 - 3 + 12 \times 2$$

$$6 \times 3 - 3 + 12 \times 2$$

~~$$18 - 3 + 24$$~~

~~$$18 - 3 + 24$$~~

~~$$18 - 3 + 24$$~~

~~$$18 - 3 + 24$$~~

~~$$18 - 3 + 24$$~~

~~$$18 - 3 + 24$$~~

15. Two sets of figures have been given below. Figures 1, 2, 3 and 4 constitute the Problem Set while figures A, B, C and D constitute the Answer Set. There is a definite relationship between figures 1 and 2. Establish a similar relationship between figures 3 and 4 by selecting a suitable figure from the Answer Set that would replace the question mark (?) in fig. (4). Select a suitable figure from the Answer Figures that would replace the question mark (?).

a. D
 b. A
 c. B
 d. C

Problem Figures:

Δ□○	○□Δ	?
(1)	(2)	(3)

Answer Figures:

Δ	Δ	Δ	Δ
(A)	(B)	(C)	(D)

16. Two sets of figures have been given below. Figures 1, 2, 3 and 4 constitute the Problem Set while figures A, B, C and D constitute the Answer Set. There is a definite relationship between figures 1 and 2. Establish a similar relationship between figures 3 and 4 by selecting a suitable figure from the Answer Set that would replace the question mark (?) in fig. (4). Select a suitable figure from the Answer Figures that would replace the question mark (?).

a. C
 b. D
 c. B
 d. A

Problem Figures:

↙	↘	↗	?
(1)	(2)	(3)	(4)

Answer Figures:

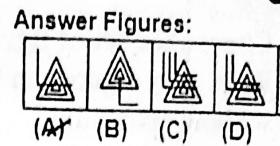
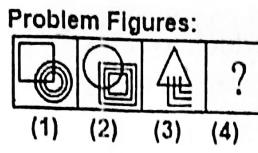
↙	↘	↗	↗
(A)	(B)	(C)	(D)



SET-A

17. Two sets of figures have been given below. Figures 1, 2, 3 and 4 constitute the Problem Set while figures A, B, C and D constitute the Answer Set. There is a definite relationship between figures 1 and 2. Establish a similar relationship between figures 3 and 4 by selecting a suitable figure from the Answer Set that would replace the question mark (?) in fig. (4). Select a suitable figure from the Answer Figures that would replace the question mark (?).

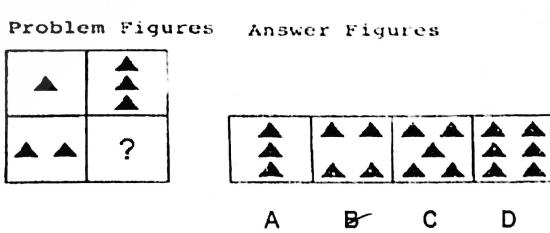
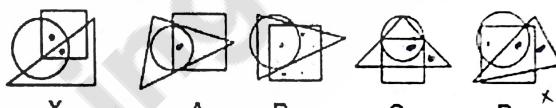
- a. D
- b. A
- c. B
- d. C



18. The first Republic Day of India was celebrated on 26th January 1950. It was—
 a. Thursday
 b. Tuesday
 c. Friday

19. Select the figure which satisfies the same conditions of placement of the dots as in Figure-X.

- a. A
- b. C
- c. D
- d. B



20. In this question, find out which of the answer figures A, B, C and D completes the figure matrix?

- a. B
- b. A
- c. D
- d. C

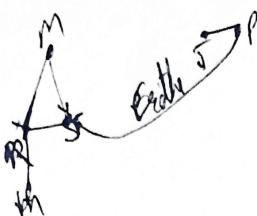
50 60 70 80 90 00 10 20
 Ma T S W Sod T SS
 Tw F Sed MT TF SM T Tw
 Tw F Sed MT TF SM T Tw

17	19	14	20	21	2022	2023
F	S	S	M	T	W	
11	12	13	14	15	16	
S	S	M	T	W	T	
9	5	6	7	8	9	10
S	S	M	T	W	T	
1	2	3				

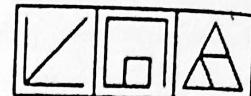
96	97	98	99	00
F	S	S	M	T
91	92	93	94	95
S	M	T	W	D
90				

21. Choose the set of figures which follows the given rule.
Rule: Any figure can be traced by a single unbroken line without retracing.

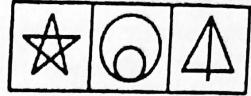
a. A
b. D
c. B
d. C



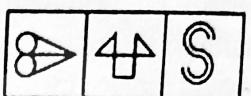
A



B



C



D



22. DF, GJ, KM, NQ, RT, ?

✓ UW
✗ YZ

✓ XZ
✗ UX

✓ 23. Rajan is the brother of Sachin and Manick is the father of Rajan. Jagat is the brother of Priya and Priya is the daughter of Sachin. Who is the uncle of Jagat ?
a. Sachin
b. None of these
c. Manick
d. Rajan

✓ 24. Out of following four words, three are alike in some manner and the fourth one is different . Choose out the odd one.
✓ Observation
✓ Experiment
✗ Assumption
✗ Hypothesis

✓ 25. Two couples with one child each were sitting in a room. After some time, an old man and an old woman entered the room, followed by three couples with two children each. How many persons are there in the room?

✓ a. 20
c. 16
b. 18
d. 14

20
6
6
2
1
5

PART - II : MATHEMATICS

✓ 26. Find the perimeter of a circular plot which occupies an area of 154 sq metres ?

a. 22 m
✓ c. 44 m
b. 11 m
d. 54 m

✓ 27. Perimeter of a square is 112 m. What is its area?

a. 784 sq.m
c. 884 sq.m
b. 764 sq.m
d. 448 sq.m

✓ 28. ABC is an isosceles triangle with AB=AC=5 and BC=6. If G is the centroid of \triangle ABC, then AG is equal to

a. 2/3
c. 8/3
b. 4/3
d. 1/3

$$112 = 2 \times 28 \times 2$$

$$\frac{112}{2} = 56$$



$$\begin{aligned} 154 &= \pi r^2 \\ 154 &= \pi \left(\frac{22}{7}\right)^2 \\ 154 &= \frac{22}{7} \times \frac{11}{4} \\ 154 &= \frac{11}{4} \end{aligned}$$

$$\begin{aligned} 154 \times \frac{22}{7} &= 44 \\ 44 &= 22 \\ 22 &= 2 \end{aligned}$$

29. A passenger train which moves 5 kmph faster than a bus, takes 1 hour less for a journey of 150 km. The speed of bus is
 a. 20
 b. 24
 c. 23
 d. 25

30. If one angle of parallelogram is 24° less than twice the smallest angle, then the largest angle of the parallelogram
 a. 68°
 b. 112°
 c. 136°
 d. 102°

31. The product of two whole numbers is 1500 and their HCF is 10. Find the LCM
 a. 15
 b. 1500
 c. 150
 d. 15000

32. If the product of two coprime number is 117, then their LCM is
 a. 39
 b. 117
 c. 13
 d. 9

33. There are 4 red, 5 blue and 3 green marbles in a basket. If three marbles are picked randomly, then the probability that either all are red or all are green, is:
 a. $1/44$
 b. $7/12$
 c. $7/44$
 d. $5/12$

34. The sum of seven numbers is 235. The average of the first three is 23 and that of the last three is 42. The fourth number is:
 a. 40
 b. 126
 c. 69
 d. 195

35. Find the wrong number in the series: 2, 3, 6, 15, 52.5, 157.5, 630
 a. 15
 b. 3
 c. 6
 d. 52.5

36. A and B can do a piece of work in 5 days, B and C can do the work in 7 days and A and C can do it in 4 days who among these will take the least if put to do it alone:
 a. A
 b. B
 c. Non of them
 d. C

37. The selling price of an article is Rs 24 after a discount of 20%, If the discount is 30%, then the selling price of the article is:
 a. Rs 20
 b. Rs 21.60
 c. Rs 21
 d. Rs 27

38. $1 + \tan^2 \theta =$
 a. $\operatorname{cosec}^2 \theta$
 b. $\cos^2 \theta$
 c. $\sec^2 \theta$
 d. 1

39. Find: $\sin 135^\circ + \cos 135^\circ$
 a. $1/\sqrt{2}$
 b. 0
 c. None of these
 d. $\sqrt{2}$

40. The supplement of 80° is
 a. 120° b. 100°
 c. 10° d. 280°

41. $\sin \pi/4 \cos \pi/12 - \cos \pi/4 \sin \pi/12$ is equal to
 a. 0.5 b. $\sqrt{3}/2$
 c. $1/\sqrt{3}$ d. $\sqrt{3}$

42. If $\operatorname{cosec} \theta = \sqrt{10}$ and θ is acute, then $\sec \theta = ?$
 a. $3/\sqrt{10}$ b. $1/\sqrt{10}$
 c. $2/\sqrt{10}$ d. $\sqrt{10}/3$

43. If a number is subtracted from the square of its one-half, the result is 48. The square root of the number is:
 a. 6 b. 8
 c. 4 d. 5

44. The length of a black board is 8 cm more than its breadth. If the length is increased by 7 cm and breadth is decreased by 4 cm the area remains the same. The length and breadth of black board will be
 a. 40, 32 b. 34, 26
 c. 56, 48 d. 28, 20

45. The area of a rectangle is thrice that of a square. If the length of the rectangle is 40 cm and its breadth is $3/2$ times that of the side of the square, then the side of square is:
 a. 20 cm b. 60 cm
 c. 15 cm d. 30 cm

46. The mean proportional between 5 and 20 is:-
 a. 12.5 b. 15
 c. 10 d. 25

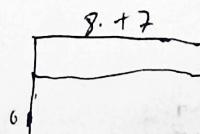
47. A train is 110m long, passes a telegraph pole in 10 sec, then the speed of train is $S = \frac{D}{T}$
 a. 5m/sec b. 15m/sec
 c. 1.5m/sec d. 11m/sec

48. The mean of five numbers is 30. If one number is excluded, their mean becomes 28. The excluded number is
 a. 38 b. 28
 c. 35 d. 30

49. The length of a rectangle is twice its breadth. If its length is increased by 5 cm and breadth is increased by 5 cm, the area of the rectangle is increased by 75 sq.cm. The length of the rectangle is:
 a. 40 cm b. 20 cm
 c. 50 cm d. 30 cm

$$\begin{aligned}
 \cancel{a} \times \cancel{b} &= a^2 \\
 \cancel{40} \times \cancel{30} &= n^2 \\
 \cancel{1200} n &= x^2
 \end{aligned}$$

$$x^2 = 60$$



50. The height of a tree is 10 m. It is bent by the wind in such a way that its top touches the ground and makes an angle of 60° with the ground. At what height from the bottom did the tree get bent? ($\sqrt{3} = 1.732$)

a. 4.8 m b. 4.6 m
c. 5.2 m d. 5.4 m



PART - III : GENERAL KNOWLEDGE

51. 'Gurupurab' is the celebration of birth anniversary of which Sikh Guru?

a. Guru Nanak b. Guru Arjan
c. Guru Tegh Bahadur d. Guru Gobind Singh

52. In which of the following festivals are boat races a special feature?

a. Pongal b. Navratri
c. Onam d. Rongali Bihu

53. Which year did the First World war start?

a. 1916 b. 1918
c. 1914 d. 1945

54. Which rank has no insignia in Indian Army?

a. L Nk b. Sepoy
c. Naik d. Risaldar

55. Thomas Cup is associated with?

a. Tennis b. Football
c. Cricket d. Badminton

56. Who was named India's Cricketer of the Century by Wisden?

a. Sunil Gavaskar b. Anil Kumble
c. Kapil Dev d. Sachin Tendulkar

57. Which country has recently proposed a 'Global Electricity Grid'?

a. USA b. China
c. Australia d. India

58. Who won Oscar award for the Best Actress in 2022?

a. Tovi Aam b. Nicole Kidman
c. Olivia Colman d. Jessica Chastain

59. The Cherry Blossom Mao Festival was organised in which state recently?

a. Gujarat b. Manipur
c. Nagaland d. Kerala

60. Sanjhi Art, which was seen in the news recently, is practised in which state?

a. Himachal Pradesh b. Rajasthan
c. Uttar Pradesh d. Gujarat

110

10

513

30 - 6 + 28

30 + 22
2

$x^2 = y^2$

$x + 5 = (y + 5)$

13

2

26

2

24

✓ 61. The words 'Satyameva Jayate' inscribed below the base plate of the emblem of India are taken from which scripture?
 a. Mundak Upanishad b. Satpath Brahmana
 c. Rigveda d. Ramayana

✓ 62. Tulika Mann has won a silver medal in which sport at 2022 Commonwealth Games?
 a. Judo b. Weightlifting
 c. Squash d. Track and Field

✓ 63. Where is the headquarter of WADA located?
 a. US b. Canada
 c. England d. Australia

✓ 64. What is the name of Pak Afghan Border?
 a. Magnet Line b. Macmohan Line
 c. Redcliff Line d. Durand Line

✓ 65. RIMC is located in which state?
 a. Uttar Pradesh b. Uttarakhand
 c. Karnataka d. Rajasthan

✓ 66. In which year Indian Army was established?
 a. 1905 b. 1895
 c. 1900 d. 1947

✓ 67. 23rd January celebrated as Parakram Diwas in the memory of
 a. More than 90000 army personnel including the army of officers of Pakistan surrendered before Indian Army in Dacca
 b. India won the war against Pakistan in 1971
 c. Birth anniversary of Netaji Subhash Chandra Bose d. India declared herself as self-sufficient in food grains

✓ 68. The 'Donbas War' is currently being fought in
 a. Syria b. Serbia
 c. Ukraine d. Lebanon

✓ 69. What is the official slogan of the 2024 Paris Olympics?
 a. Games Wide Open b. Inclusive and Impressive
 c. Global Partnership d. Brotherly and Beautiful

✓ 70. The telescope is used for viewing
 a. distant objects b. small objects
 c. living cells d. near objects

✓ 71. Which Indian state has launched a new scheme named 'Naari Ko Naman'?
 a. Himachal Pradesh b. Odisha
 c. Punjab d. Uttar Pradesh

72. The Presidency of the UN Security Council rotates among the Council Members

- a. Every year
- b. Every 3 months
- c. Every month
- d. Every 6 months

73. Which of the following is the oldest dynasty of India?

- a. Gupta Dynasty
- b. Maurya Dynasty
- c. Nanda Dynasty
- d. Kushana Dynasty

74. National Anti-Terrorism Day is being celebrated on which date?

- a. 20-May
- b. 19-May
- c. 22-May
- d. 21-May

75. Which institute launches the 'Financial Inclusion Index'?

- a. RBI
- b. World Bank
- c. NITI Aayog
- d. Ministry of Finance

PART - IV : ENGLISH

76. Give the synonym of the word: Lately
a. Zest
c. recently
b. Early
d. Prolong

77. Give the synonym of the word: Harmonious
a. Peaceful
c. Bluff
b. Rebuke
d. Barbarous

78. Give correct narration of the given sentence. The teacher said, "The wind is a renewable energy source."
a. The teacher said that the wind was a renewable energy source
c. The teacher told that the wind is a renewable energy source.
b. The teacher said that the wind is a renewable energy source
d. The teacher tells that the wind was a renewable energy source

79. Give correct narration of the given sentence. Shahekant said to me, "I have no time for you"
a. Shahekant told me that he had no time for me
c. Shahekant told me that he has no time for me
b. Shahekant said that he had no time for me
d. Shahekant told me that he was having no time for me

80. Give correct narration of the given sentence. "Alas! It can't be this bad." He said
a. He exclaimed with sorrow that that couldn't be that bad
c. He grieved that it couldn't be that bad
b. He said that it was really that bad
d. He said with sorrow that that was bad

81. Give correct narration of the given sentence. Ranjan said, "You can not park here!"
a. Ranjan said that I may not park here
c. Ranjan forbade me to park there
b. Ranjan exclaimed that I couldn't park there
d. Ranjan said to me that I was unable to park there.

14.

82. Give correct narration of the given sentence. He said, "Let us have dinner here."

a. He said that we had dinner there b. He proposed that we had dinner there

c. He asked if we wished to have dinner there d. He said that we should have dinner there

83. What is the correct meaning of the idiom "Have gift of the gab"?

a. Examine a gift carefully b. Welcome a gift

c. Find fault with a gift d. the ability to talk readily

84. Find out incorrect segment in the given question. In order to streamline the movement of vehicles during the festival, traffic police has chalked out diversion plans

a. the movement of vehicles b. the festival, traffic police has

during c. In order to streamline d. chalked out.diversion plans

85. Find out incorrect segment in the given question. The world Trade Organisation was formed in the early 1990s as an out come of Uruguay Round negotiations

a. The world trade organisation b. of Uruguay round negotiations

c. in the early 1990s as an out come d. was formed

86. What is the correct meaning of the idiom "Done to death"?

a. Removed b. Murdered

c. Attacked d. Eliminated

87. What is the correct meaning of the idiom "Build upon sand"?

a. Based on inexperience b. Established on insecure foundations

c. Resting on immature ideas d. Resting on cheap material

88. Find out incorrect segment in the given question. The old man told his sons that there was no such thing like luck.

a. The old man b. told his sons

✓ that there were no such thing d. all parts wrong

like luck.

89. What is the correct meaning of the idiom "Picking Holes"?

a. Creating Problems ✓ b. Finding Fault with

c. None of these d. Suggesting improvement

90. What is the correct meaning of the idiom "Burning question"?

a. A burning furnace b. A dying issue

c. An irrelevant issue ✓ d. A widely debated issue

91. Give the synonym of the word: Yield

a. Abdicate b. Intricate

c. Consent d. Prerogative

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2. Give the synonym of the word: Eloquence

- a. Chaste
- b. Comprise
- c. Expression
- d. Sympathy

3. Give the synonym of the word: Sneer

- a. Harness
- b. Mock
- c. Alert
- d. Tired

Read the given paragraph for the next 5 questions. A little girl was learning a history lesson with her governess. All the morning she had been reading it over and hearing it explained by her governess, but no good came of either the reading or the teaching. The governess went over the lesson several times, explained the meaning, and for the last time, asked her pupil to read it over. After due time had been given, the girl was examined as to her knowledge of the lesson; but not a single answer could she give correctly. The governess lost patience with her and threatened to punish her unless she could state where a certain treaty was signed.

4. According to the passage, what initiative the governess has taken to teach her pupil efficiently?

- a. The governess went over the lesson several times, explained the meaning
- b. The governess explained the lesson with the help of a flowchart
- c. The governess has taken her to the nearest historic museum
- d. The governess explained the lesson with the help of diagrams

5. Which impression is correct about the inability of the girl to answer questions correctly?

- a. The dullness of the girl
- b. The lack of time
- c. The difficulty of the language
- d. The incompetence of the governess

6. Which of the following correctly expresses the meaning of 'lost patience with her'?

- a. The inability of the governess to endure further the girl's failure to answer
- b. The governess felt that the girl cannot be taught the lesson
- c. The governess felt that she was not good enough to teach the girl
- d. The governess lost her enthusiasm to teach the girl

7. With reference to the passage, consider the following statements: 1. The governess taught the same lesson several times. 2. The governess wanted to complete her teaching work quickly. Which of the statements given above is/ are correct?

- a. Only 1
- b. Neither 1 nor 2
- c. Both 1 and 2
- d. Only 2

8. According to the passage, the little girl read the lesson and heard it explained all the morning because

- a. The lack of time
- b. The dullness of the girl
- c. The difficulty of the language
- d. The incompetence of the governess

99. Find out incorrect segment in the given question. Mothers keep on to encouraging their children to study.

- Mothers keep on
- to study
- to encouraging their children
- All parts wrong

100. Find out incorrect segment in the given question. Before we returned from swimming in the river near the camp someone had stole our clothes and we had to walk back with our towels around us

- Before we returned from swimming in the river near the camp
- and we had to walk back with our towels around us
- someone had stole our clothes
- all parts wrong

PART - V : GENERAL SCIENCE

19

101. In which state is Jog Falls Located?

- Tamil Nadu
- Maharashtra
- Kerala
- Karnataka

102. In circuit switching

- All of the above
- transmission path is set before data transfer
- dedicated communication link is not required
- data is stored at intermediate nodes

103. Which one is called as unisexual plant?

- Mustard
- None
- Papaya
- Hibiscus

104. The solar cell converts which energy into electrical energy

- Solar Energy
- Magnetic Energy
- Chemical Energy
- None of these

105. Chlorosis appear in plant because of

- Excess supply of micronutrients
- Poor supply of Macronutrients
- None
- Poor supply of Micronutrients

106. The acceleration due to gravity:

- Has the same value everywhere on the earth
- Varies with the latitude on the earth
- Has the same value everywhere in space
- Is greater on the moon due to its smaller size

107. View finders, used in automobiles to locate the position of the vehicles behind, are made of

- Parabolic mirror
- Convex mirror
- Plane mirror
- Concave mirror

108. During photosynthesis green plants producing their own food in the form of

- Glucose
- starch
- galactose
- Mannose

109. Biogeochemical cycle includes

- Abiotic only
- Biotic only
- Both
- None

110. Vapour pressure of two liquids P and Q is 80mm and 60mm respectively. What will be the vapour pressure of solution obtained by mixing 3 moles of P and 2 moles of Q.

- 20mm
- 140mm
- 68mm
- 72mm

111. Third generation computers

- None of the above
- were the first to use built in error detecting devices
- used transistors instead of vacuum tubes
- were the first to use neural network

112. _____ is a search engine

- Internet explorer
- Google
- Fire Fox
- Flash

113. Mega pixels are NORMALLY associated with a

- digital camera
- voice digitiser
- screen resolution in EGA range
- screen resolution in SVGA mode

114. What is the full form of "AI"?

- Advanced Intelligence
- Artificially Intelligent
- Artificial Intelligence
- Artificially Intelligence

115. How can the penetrating power of an x-ray beam be increased?

- By increasing its velocity
- By decreasing the pressure inside the x-Ray tube
- By increasing its intensity
- By increasing its frequency

116. The force exerted on a current-carrying wire placed in a magnetic field is zero when the angle between the wire and the direction of the magnetic field is _____.
 a. 45 degree
 b. 60 degree
 c. 180 degree
 d. 90 degree

117. _____ is a closed-loop or path formed by the network of electrical components, where electrons flow.

- Electric Potential
- Electric Circuit
- Electric Path
- Electric Difference

118. Which of the following is a physical change?

- Getting salt from sea water
- Formation of curd from milk
- Ripening of fruits
- Burning of Wood

119. The most abundant metal in the earth's crust is
 a. iron
 b. carbon
 c. silica
 d. aluminium

PART- VI : HUMANITIES

126. Directive Principles are:

- a. None of the above
- b. Both of them
- c. Justiciable
- d. Not Justiciable

127. Which of the following does not have a Federal system of Government?

- a. India
- b. None of the above
- c. USA
- d. Russia

128. Which of the following organisation is responsible for managing internet addresses ?

- a. IANA
- b. YAHOO
- c. IEEE
- d. GOOGLE

129. Who among the following receives subsidies from the government?

- a. Buyers
- b. Manufacturers
- c. All of the above
- d. Sellers

130. G-15 is a group of

- a. Developed Countries
- b. Non - aligned Countries
- c. Companies
- d. Developing Countries

131. 'AMAN " is the secret agency of which of the following countries

- a. Iraq
- b. Portugal
- c. Canada
- d. Israel

144. Which one of the following organisations lay stress on liberalisation of foreign trade and foreign investment?
 a. World Health Organisation
 b. International Labour Organisation
 c. International Monetary Fund
 d. World Trade Organisation

145. The Consumer Movement started rising in India as a social force due to _____.
 a. rampant food shortages
 b. All of the above
 c. adulteration of food and edible oil
 d. unethical and unfair trade practices

146. What is the approximate height of a geostationary satellite from the surface of the earth
 a. 55000 Km
 b. 35000 Km
 c. 15000 Km
 d. 981 Km

147. Where the Headquarters of U.N. is located?
 a. Rome
 b. New York
 c. Geneva
 d. Washington D. C.

148. Which one of the following organisations is directly related to child welfare?
 a. UNICEF
 b. WTO
 c. UNESCO
 d. WHO

149. Japan has a parliamentary system with the head of state as
 a. Emperor
 b. Chancellor
 c. Commander in Chief
 d. President

150. Kabir was the disciple of
 a. Ramananda
 b. Shankaracharya
 c. Chaitanya
 d. Vallabhacharya

$$\begin{array}{c}
 \begin{array}{ccccc}
 0^\circ & 30^\circ & 45^\circ & 60^\circ & 90^\circ \\
 \hline
 \sin \theta & 0 & \frac{\sqrt{3}}{2} & \frac{\sqrt{2}}{2} & 1 \\
 \cos \theta & 1 & \frac{\sqrt{3}}{2} & \frac{1}{2} & 0 \\
 \tan \theta & 0 & \frac{1}{\sqrt{3}} & 1 & \infty
 \end{array} &
 \begin{array}{c}
 \frac{\sin 45^\circ}{\cos 45^\circ} = 1 \\
 \frac{1}{\sqrt{2}} = 1 \\
 \frac{\sqrt{3}}{\sqrt{2}} = \sqrt{\frac{3}{2}} = \sqrt{1.5} = \sqrt{19/2} = \sqrt{19} = 4.36
 \end{array} &
 \begin{array}{c}
 \frac{1}{\sqrt{2}} = \sqrt{\frac{1}{2}} = \sqrt{1/2} = \sqrt{19/2} = \sqrt{19} = 4.36 \\
 19/2 = 9.5
 \end{array}
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