

**SET-B**

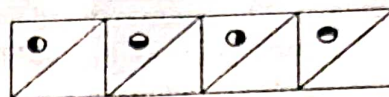
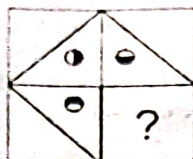
**COMMON ENTRANCE EXAMINATION FOR ACC AND  
SCO/MED(NT): JAN 2024**

**PART - I : REASONING**

45

1. Following Question has four alternatives (a) (b) (c) (d), among which, one completes the figures

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



X

A

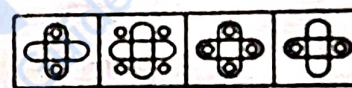
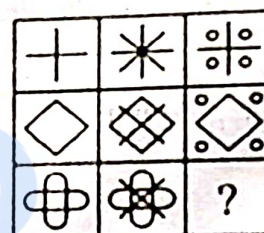
B

C

D

2. Select a suitable figure from the four alternatives that would complete the figure matrix

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

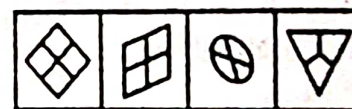


A

B

C

D



A

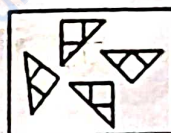
B

C

D

3. Choose the figure which is different from the rest.

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



X



A

B

C

D

4. Find out which of the figures A, B, C and D can be formed from the pieces given in figure (X)

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



A

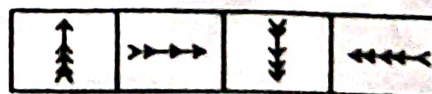
B

C

D

5. Choose the figure which is different from the rest.

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



A

B

C

D

6. If \* stands for 'addition', / stands for 'subtraction', + stands for 'multiplication', and - stands for 'division', then  $20 * 8 / 8 - 4 + 2 = ?$  2

- a. 22 b. 23  
c. 24 d. 25

7. Out of the following four words, three are alike in some manner and the fourth one is different. Choose out the odd one 2

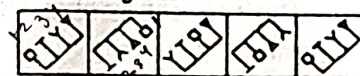
- a. Ballot b. Manifesto  
c. Election d. Cryolite

8. Nitin was counting downward from 32. Sumit was counting upwards from No1 and he was calling out only the odd numbers. What common number will they call out at the same time if they were calling out at the same speed? 2

- a. 19 b. 21  
c. 22 d. None of the above

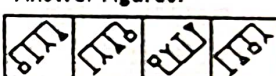
9. SERIES: Select a figure from amongst the Answer Figures which will continue the same series as established by the Problem Figures. 2

Problem Figures:



(1) (2) (3) (4) (5)

Answer Figures:

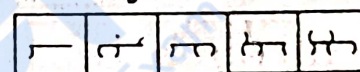


(A) (B) (C) (D)

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

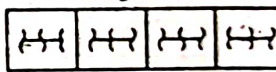
10. SERIES: Select a figure from amongst the Answer Figures which will continue the same series as established by the Problem Figures. 2

Problem Figures:



(1) (2) (3) (4) (5)

Answer Figures:



(A) (B) (C) (D)

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

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

Problem Figures:



(X) (A)

Answer Figures:



(B) (C) (D)

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

12. If June 11, 2013 is Monday, what was the day on July 11, 2000 2

- a. Tuesday b. Saturday  
c. Wednesday d. Monday

**SET-B**

13. Choose the missing term out of the alternatives.  
1, 2, 10, 37, ?, 226

2

- a. 75  
c. 95

- b. 84  
d. 101

14. Choose the missing term out of the alternatives.  
B, D, F, I, L, P, ?

2

- a. R  
c. T

- b. S  
d. U

15. A compass is incorrectly aligned. For the direction of west, it is showing southwest. Which direction will it show for north?

2

- a. East  
c. North-east

- b. North-west  
d. South-east

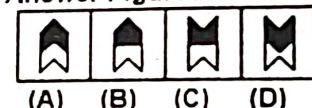


16. Two sets of figures have been given below. Figures 1, 2, 3 and 4 constitute the Problem Set while figures A, B, C and D constitute the Answer Set. There is a definite relationship between figures 1 and 2. Establish a similar relationship between figures 3 and 4 by selecting a suitable figure from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

Problem Figures:



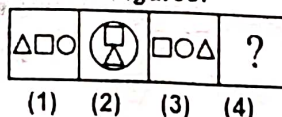
Answer Figures:



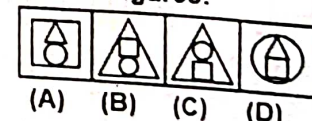
- a. A  
b. B  
c. C  
d. D

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 (?).

Problem Figures:



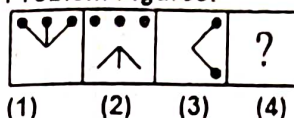
Answer Figures:



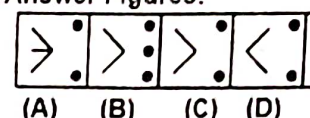
- a. A  
b. B  
c. C  
d. D

18. 5-Each of the following questions consists of two sets of figures. Figures A, B, C and D constitute the Problem Set while figures 1, 2, 3, 4 and 5 constitute the Answer Set. There is a definite relationship between figures A and B. Establish a similar relationship between figures C and D by selecting a suitable figure from the Answer Set that would replace the question mark (?) in fig. (D). Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures:



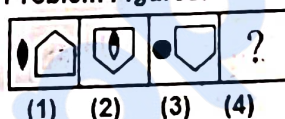
Answer Figures:



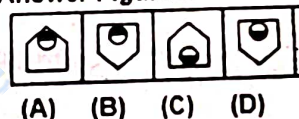
- a. A  
b. B  
✓ c. C  
d. D

19. 16-Each of the following questions consists of two sets of figures. Figures A, B, C and D constitute the Problem Set while figures 1, 2, 3, 4 and 5 constitute the Answer Set. There is a definite relationship between figures A and B. Establish a similar relationship between figures C and D by selecting a suitable figure from the Answer Set that would replace the question mark (?) in fig. (D). Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures:



Answer Figures:

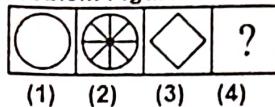


- a. A  
b. B  
✓ c. C  
d. D

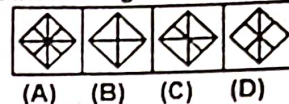
SET-B

20. 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 (?).

Problem Figures:



Answer Figures:



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

21. Choose the missing term out of the alternatives.  
SPONGE : POROUS :: RUBBER ?

- a. MASSIVE  
b. ELASTIC

- b. SOLID  
d. INFLAXIBLE

22. There are six persons 1, 2, 3, 4, 5 and 6. 3 is the sister of 6. 2 is the brother of 5's husband. 4 is the father of 1 and grandfather of 6. There are two fathers, three brothers and a mother in the group. Which of the following is a group of brothers ?

- a. 1,2,3  
c. 1,2,4

- b. 3,2,6  
d. 1,2,6

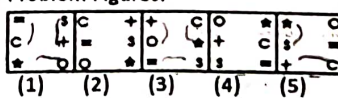
23. If in a certain code, MENTAL is written as LNDFMOSUZBKM. How is TEST written in that code?

- a. UVFGTUUV  
c. SUDFQRSU

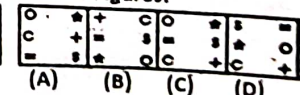
- b. RSCDQRRS  
d. SUDFRTSU

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

Problem Figures:



Answer Figures:



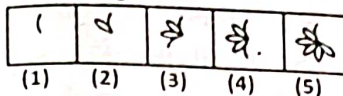
- a. A  
b. B  
c. C  
d. D

MENTAL  
LNDFMOSUZBKM

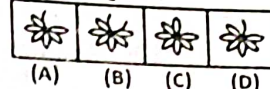
SUDFRTSU

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

Problem Figures:



Answer Figures:



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

37-5

## PART - II : MATHEMATICS

26. A man can do a job as fast as his 2 sons working together if one son does the job in three hrs and the other in 6 hrs ,how many hours does it take the man to do the job? 2

- a. 1 hrs  
b. 2 hrs  
c. 3 hrs  
d. 4 hrs

27. A and B together can do a work in 12 days. B can do the same work in 36 days, then A can do the same work in :- 2

- a. 81 days  
b. 18 days  
c. 12 days  
d. 36 days

28. The mid value of class interval is 42. If the class size is 10, then the upper and lower limits of the class are 2

- a. 37.5&47.5  
b. 47&37  
c. 37&47  
d. None of these

29. ABC is an isosceles triangle with  $AB=AC=5$  and  $BC=6$ . If G is the centroid of  $\Delta ABC$ , then AG is equal to 2

- a.  $\frac{1}{3}$   
b.  $\frac{2}{3}$   
c.  $\frac{4}{3}$   
d.  $\frac{8}{3}$

30. The two parallel sides of a trapezium are 1.5 m and 2.5 m respectively. If the perpendicular distance between them is 6.5 m, the area of trapezium is: 2

- a. 26 sq.m  
b. 13 sq.m  
c. 20 sq.m  
d. 10 sq.m

31. Perimeter of a square is 112 m. What is its area? 2

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

32. what is the standared deviation of numbers 7, 9, 11, 13, and 15? 2

- a. 2.2  
b. 2.4  
c. 2.6  
d. 2.8

33. 70% of 280 is equal to: 2

- a. 70% of 28  
b. 35% of 5600  
c. 40% of 490  
d. 7% of 280

SET-B

34. Simple interest on certain sum is  $\frac{1}{5}$  of sum for 4 years. Find the rate of interest :

- a. 4%  
b. 5%  
c. 6%  
d. 8%

35. A number when divided by 4 is reduced by 21. The number is:

- a. 18  
b. 20  
c. 28  
d. 38

36. Three numbers are in ratio 4:5:6 and their average is 25. The largest number is:

- a. 30  
b. 32  
c. 36  
d. 42

37. Two circles of same radius 5 cm, intersect each other at A and B. If AB=8 cm, then the distance between the centre is

- a. 10 cm  
b. 4 cm  
c. 6 cm  
d. 8 cm

38. The average weight of 10 men is decreased by 3 Kg when a new person replaces one of them whose weight is 80 kg. The weight of the new person is :-

- a. 70 kg  
b. 60 kg  
c. 50 kg  
d. 73 kg

39. If  $(\alpha + \beta) = \pi/4$ , then the value of  $(1 + \tan \alpha)(1 + \tan \beta)$  is equal to :

- a. 1  
b. 2  
c. 3  
d. None of these

40. Find:  $\sin \pi + \cos \pi$

- a. 0  
b. 2  
c. 1  
d. -1

41.  $\sin 35^\circ \sin 55^\circ - \cos 35^\circ \cos 55^\circ = ?$

- a. 1  
b. 2  
c. 0  
d. None of these

42. If  $5x + 9y = 89$  and  $2x - 17y = 15$ , then find the value of x and y.

- a. 16,1  
b. 17,2  
c. 16,2  
d. 17,1

43. The line  $x = 3$  is

- a. Parallel to x-axis  
b. Parallel to y-axis  
c. Not Parallel to both axis  
d. Lies in first quadrant

44. Three fourth of a number exceeds its one-third by 60. The number

- a. 108  
b. 144  
c. 184  
d. None of these

45. An angle which is less than  $360^\circ$  and more than  $180^\circ$  is called

- a. a reflex angle  
b. a straight angle  
c. an acute angle  
d. an obtuse angle

46. If  $\tan \theta = 3/4$  and  $\theta$  is acute, then  $\operatorname{cosec} \theta = ?$

- a.  $5/4$   
b.  $5/3$   
c.  $4/3$   
d.  $4/5$

SE  
2

47. The angle of elevation of a ladder leaning against a wall is  $60^\circ$  and the foot of ladder is 4.6 m away from the wall. The length of the ladder is

- a. 2.3 m  
b. 9.2 m  
c. 4.6 m  
d. None of these

2

48. The area of a square field is 6050 sq.m. How much time it will take to reach from one of its corner to the opposite corner at the rate of 10 meter in every 30 seconds?

- a. 5.5 min  
b. 11 min  
c. 22 min  
d. 110 min

2

49. The circumference of two concentric circles forming a ring are 88 cm and 66 cm respectively. The width of the ring is:

- a. 3.5 cm  
b. 10.5 cm  
c. 7 cm  
d. 14 cm

2

50. Find the width of a roller which covers 4.4 kms. While cutting 4840 m of grass

- a. 1.1 m  
b. 1.01 m  
c. 11 m  
d. 2.05 m

2

### PART - III : GENERAL KNOWLEDGE

51. Who became the first woman to be appointed as SEBI chairman ?

- a. Alka Singh  
b. Rohni Mittal  
c. Seema Verma  
d. Madhabi Puri

2

52. "World Art Day" is celebrated on

- a. 15-Apr  
b. 6-Feb  
c. 3-Mar  
d. 1-Apr

2

53. Which state's astronomical observatory has been included in the UNESCO list of Important Endangered Heritage Observatories?

- a. Maharashtra  
b. Bihar  
c. West Bengal  
d. Kerala

2

54. Amnesty International has its headquarters at

- a. Berlin  
b. New York  
c. Washington  
d. London

2

55. Who has become the first woman officer to join the Army Aviation Corps as a combat aviator?

- a. Abhilasha Barak  
b. Deborah Sampson  
c. Priya Jhingan  
d. Mohana Singh

2

**SET-B**

- 710 x 1/3 = 240 1/3
56. Name of operation which was launched for The independence of Goa , Daman and Diu ? 2  
 a. OP Vijay  
 ✓ c. OP Shakti  
 b. OP Khukri  
 d. OP Parakram
57. What is the tenure of CDS? 2  
 a. 3 years and upto age 65  
 ✓ c. 3 years and upto 66  
 b. 2 years and upto age 66  
 d. 2 years and upto 65
58. Name the Indian Chess player who has broken the World Record by finishing the game in first twelve moves? 2  
 ✓ (2) a. Vishwanathan Anand  
 c. Sakunthala Devi  
 b. Champa Bose  
 d. Praveen Thipsey
59. Which Indian Cricketer was given the title 'Tiger'? 2  
 ✓ a. Sunil Gavaskar  
 0.5 c. Mansur Ali Khan Pataudi  
 b. Rahul Dravid  
 d. B.S. Bedi
60. Girl Gang, a track by New Zealand singer Gin Wigmore, has been announced as the official song of which tournament? 2  
 ✓ a. 2023 FIFA World Cup  
 0.5 c. 2022 ICC Women's World Cup  
 b. 2022 FIH Women's World Cup  
 d. 2022 FIBA Women's Basketball World Cup
61. Which is the venue of the 19th Asian Games of 2022? 2  
 ✓ (2) a. Tokyo, Japan  
 c. Hangzhou, China  
 b. Colombo, Sri Lanka  
 d. New Delhi, India
62. In Leh, the first ever ice climbing festival was celebrated in which valley in January 2021? 2  
 a. Nubra  
 c. Markha  
 b. Ripchar  
 d. Dras
63. Where was the 23rd National Youth Festival 2020 held? 2  
 ✓ a. New Delhi  
 0.5 c. Lucknow  
 b. Jaipur  
 d. Shillong
64. 'Yojana Banao' campaign has been launched by Govt of Jharkhand in which year? 2  
 a. 2011  
 c. 2014  
 b. 2013  
 d. 2016
65. Which city's pre-eminent crossing will be named after Lata Mangeshkar? 2  
 a. Agra  
 c. Ayodhya  
 b. Lucknow  
 d. Kanpur
66. Which Union Ministry released the 'Performance Grading Index for Districts (PGI-DI)? 2  
 (2) a. Ministry of MSME  
 c. Ministry of Education  
 b. Ministry of Electronics and IT  
 d. Ministry of Jal Shakti

- b. K M kariappa  
d. V P Malik

- b. JRD Tata  
d. Dada Bhai Naoroji

- a. Ram  
c. Shiva

- b. Jaganath  
d. Vishnu

- a. Land tax levied by Shivaji on neighboring states
- c. A religious tax imposed by Aurangzeb

- b. Toll tax imposed by shivaji
- d. Irrigation tax charged by akbar

- a. 1932  
c. 1944

- b. 1933  
d. 1945

- a. Santosh Yadav  
c. Arunima Sinha

- b. Bachendri Pal  
d. Premlata Agarwal

- a. 1965  
c. 1985

- b. 1975  
d. 1995

- a. IAF

- b. Indian Navy  
d. Indian Army

34

- a. Obscure  
c. sharp

- b. Scarce  
d. dull

- a. Curse  
c. Vast

- b. Exile  
d. Veil

**SET-B**

78. Give the antonym of the word: Religious

- a. Sinful  
c. Atheistic

- b. Immoral  
d. Secular

79. Give the synonym of the word: Sacred

- a. Soothe  
c. Holy

- b. Stubborn  
d. Substance

80. What is the correct meaning of the idiom "To get cold feet"?

- a. To run for life  
c. To fall sick

- b. To be afraid  
d. To fall

81. Give the antonym of the word: Noxious

- a. Pleasant  
c. Notorious

- b. Injurious  
d. Notion

82. Find out incorrect segment in the given question.

The officer has given orders to his soldiers yesterday.

- a. The officer has given  
c. soldiers yesterday.

- b. orders to his  
d. all parts wrong

83. Find out incorrect segment in the given question.

Feminists has viewed the Patriarchal control of women's bodies as one of the prime issues facing the contemporary women's movement

- a. Feminists  
c. control of women's bodies as one of the prime issues

- b. has viewed the patriarchal  
d. facing the contemporary women's movement

84. What is the correct meaning of the idiom "Shedding crocodile tears"?

- a. Be in trouble  
c. Find the hidden meaning

- b. Be nervous  
d. Insincere display of emotions

85. What is the correct meaning of the idiom "Pardon my French"?

- a. Sorry for oppressiveness  
c. Convenient to speak french

- b. Apology for rude language  
d. French language be promoted

"Who doesn't know how to cook rice? Cooking rice hardly takes time," said my father. So, I challenged myself. I switched from news to YouTube and typed, "How to cook rice?" I took one and a half cups of rice. Since I didn't have access to a rice cooker, I put the rice in a big pot. Firstly, the rice has to be washed to get rid of dust and starch. I thought I won't be able to drain the rice and that it will fall out of the pot. I observed the chef as I swirled the rice around and used my dexterous hands to drain it, not once, not twice, but three times. I looked down at the sink and saw less than 50 grains that made their way out of the pot. Suffice to say, I was up to the mark. The video stated that the key to perfect rice is equal amounts of rice and water. I have heard that professionals don't need to measure everything; they just know what the right amount is. But as this was my first time in the kitchen, I decided to experiment by not measuring the water needed for boiling the rice. I wanted the rice to be firm when bitten, just like pasta. I don't enjoy the texture of mushy rice. It has to have that chutzpah; it has to resist my biting power just for a bit before disintegrating. After what seemed like 10 minutes, all the water disappeared. I went in to give it a good stir. To my surprise, some of the rice got stuck to the pot. I tried to scrape it off but to no avail. At the same time, there was a burning smell coming from it. I quickly turned the stove off. "What have you done to the kitchen?" My mother shouted while coming towards the kitchen. I managed to ward her off. Finally, when the time came to taste my creation, I was surprised! It wasn't bad at all. The rice had the desired consistency. Sure, a little more salt would've been better, but I just added that while eating. The experience was fairly rewarding and memorable. It taught me a new sense of respect for those who cook food on a regular basis at home or are engaged in gourmet creations professionally.

86. "I switched from news to YouTube..." Pick the option in which the meaning of 'switched' is NOT the same as it is in the passage. 2

- a. he switched on the radio to listen to the news while having dinner.  
b. "forget these diet supplements and switch to yoga, if you want a true sense of well-being."  
c. mom switched to reading fiction recently because she was bored with cook-books.  
d. the company will switch the trucks to other routes to bring down city pollution.

87. The narrator says that he has dexterous hands. He would have had a problem had it been the opposite. NOT BEING dexterous means, being 2

- a. uncomfortable  
b. clumsy  
c. unclear  
d. clueless

88. Based on your understanding of the passage, choose the option that lists the correct sequence of the process. 1. Use water to wash the rice. 2. Repeat the process three times. 3. Drain the water off. 4. Put rice in a utensil. 5. Swirl the water in and around 2

- a. 4,2,1,3,5  
b. 1,3,2,5,4  
c. 4,1,5,3,2  
d. 5,1,2,4,3

89. Gourmet creations mean 2

- a. creative skills  
b. special food made by chef  
c. designer wear  
d. rice prepared artistically

**SET-B**

90. Father's question to the narrator, about knowing how to cook rice, was intended to

2

- a. criticize the narrator's lack of abilities.
- b. make the process sound simple.
- c. encourage the narrator to take up cooking.
- d. showcase his own expertise in cooking rice.

91. Give correct narration of the given sentence.  
I asked him, "Who is knocking at the door?"

2

- a. I told him who is knocking at the door
- b. I asked him who is knocking at the door
- c. I asked him who was knocking at the door
- d. I asked him was who knocking the door

92. Give correct narration of the given sentence.  
The old man said, "God is everywhere."

2

- a. The old man said that God was everywhere
- b. The old man said that God has been everywhere
- c. The old man asked that God is everywhere
- d. The old man said that God is everywhere

93. Give correct narration of the given sentence.  
Deepak said to me, "I had finished the coffee."

2

- a. Deepak told me that he had finished the coffee
- b. Deepak told me that he had been finished the coffee
- c. Deepak told me that he had finish the coffee
- d. Deepak told me that he finished the coffee

94. Give correct narration of the given sentence.  
Julia said, "I can not attend your wedding."

2

- a. Julia said that she might not attend our wedding
- b. Julia said that she could not attend our wedding
- c. Julia said that she can not attend our wedding
- d. Julia said that she wished she could attend our wedding

95. Give correct narration of the given sentence.  
She said, "Shut the door!"

2

- a. She asked me whether I would shut the door
- b. She ordered me to shut the door
- c. She said that I should shut the door
- d. She shouted and said to shut the door

96. What is the correct meaning of the idiom "Plain as day"?

2

- a. To be of advantage to someone
- b. Easy to understand
- c. In a state of extreme happiness
- d. To do a hazardous thing

97. What is the correct meaning of the idiom "Beating around the bush"?

2

- a. To talk softly and clearly
- b. To speak in a roundabout indirect way
- c. To speak the truth
- d. To speak in an unnatural way

17

**SET-B**

98. Find out incorrect segment in the given question.

I was convinced that the only thing I wanted to do ever, is to write novels.

a. I was convinced that

b. the only thing I wanted to do ever

d. No error

99. Find out incorrect segment in the given question.

The Board's decision has provided employees with the opportunity to acquire upto 100 shares by the company

a. The board's decision has provided

b. employees with the opportunity

c. to acquire upto 100

d. shares by the company

100. Find out incorrect segment in the given question.

I remember him as someone who was a lot nicer than circumstances warranted.

a. I remember him as

b. someone who was a lot nicer

c. than circumstances warranted.

d. No error

## PART - V : GENERAL SCIENCE

30

101. Identify the reducing agent in the following reaction:  $\text{Fe}_2\text{O}_3^{+3-2} + 3\text{CO} \longrightarrow 2\text{Fe}^{+3} + 3\text{CO}_2$

a. Fe

b.  $\text{Fe}_2\text{O}_3$

c. CO

d. None of the above

102. Which is the only metal that exist as liquid at room temperature?

a. platinum

b. mercury

c. iridium

d. titanium

103. Galvanisation is a method of protecting iron from rusting by coating it with a thin layer of

a. Gallium

b. Aluminium

c. Zinc

d. Silver

104. \_\_\_\_\_ attached to hemoglobin in blood for a long time, it accumulates and reduces the oxygen carrying capacity of blood.

a. CO

b.  $\text{CO}_2$

c.  $\text{NO}_2$

d.  $\text{SO}_2$

105. Mercury pollution causes a disease called

a. Itai itai

b. Minamata

c. Cyanosis

d. Hepatitis

106. Water pollution

a. Increases orygenation

b. Decreases turbidity

c. Increases turbidity and deoxygenation

d. Increases photosynthesis

3

16

Form

SET-B

107. Which one of the following is used as biological insecticide?

- a. Tiger beetle
- b. Caterpillar
- c. Silk moth
- d. Mazra poka

2

108. Momentum has the same unit as that of:

- a. Couple
- b. Torque
- c. Impulse
- d. Moment of momentum

$$P = mv$$

$$kg \times m/sec$$

2

1m

109. Dual energy X-ray absorptiometry (DEXA) is used to measure:

- a. Spread of solid tumor
- b. Bone density
- c. Ulcerous growth in stomach
- d. Extent of brain haemorrhage

2

110. A metal 'M' reacts with an Acid according to the equation.  $M + H^+ \rightarrow M^{3+} + H_2$  Which of the following is correct for metal M?

- a. calcium
- b. aluminium
- c. barium
- d. potassium

2

111. Silver articles becomes black on prolonged exposure to air. This is due to the formation of

- a. Ag<sub>3</sub>N
- b. Ag<sub>3</sub>O
- c. Ag<sub>2</sub>S
- d. Ag<sub>2</sub>S and Ag<sub>3</sub>N

2

112. The communication mode that supports data in both directions at the same time is

- a. Multiply
- b. Duplex
- c. Half duplex
- d. Simplex

2

113. The Brain of any computer system is.

- a. ALU
- b. Memory
- c. CPU
- d. Control Unit

2

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

- a. Artificially Intelligent
- b. Artificial Intelligence
- c. Artificially Intelligence
- d. Advanced Intelligence

2

115. Producer gas differs from biogas in having

- a. Methane
- b. Carbon monoxide
- c. Carbon dioxide
- d. Formed by fermentation

2

116. Identify Voluntary muscle.

- a. Skeletal muscle
- b. Cardiac muscle
- c. Smooth Muscle
- d. None

2

117. Sending a file from your personal computers primary memory or disk to another computer is called

- a. uploading
- b. downloading
- c. logging on
- d. hang on

2

118. India's first super computer was called?

- a. PARAM
- b. RAM
- c. RUDRA
- d. KRISHNA

2

SET

119. The gravitational pull of \_\_\_\_\_ causes the rise of sea-water during high tides.

- a. Venus  
b. Pluto  
c. Sun  
d. Moon

120. An object is placed 20 cm from a convex lens of focal length 10 cm. the image must be:

- a. Real and diminished  
b. Real and of same size  
c. Real and enlarged  
d. Virtual and enlarged

121. Normal blood pressure is

- a. 120/80  
b. 160/80  
c. 120/60  
d. 180/80

122. Bacterial diseases are found in

- a. Plants  
b. Animals  
c. Human  
d. All of the above

123. If two conducting spheres are separately charged and then brought in contact:

- a. The total energy of the two sphere is conserved  
b. The total charge on the two sphere is conserved  
c. Both the total energy and the total charge are conserved  
d. The final potential is always the mean of the original potential of the two spheres

124. Which of the following is the capital of the Union Territory of Dadra and Nagar Haveli?

- a. Dadra  
b. Nagar Haveli  
c. Kavaratti  
d. Silvassa

125. Charcoal is used in water treatment as

- a. Solvent  
b. Absorber  
c. Coagulant  
d. Absorbent

## PART - VI : HUMANITIES

126. As per 2011, which among the following states has the highest literacy rate?

- a. Kerala  
b. Maharashtra  
c. Bihar  
d. Odisha

127. For comparing the development of countries, their \_\_\_\_\_ is considered to be one of the most important attributes.

- a. income  
b. population  
c. demographics  
d. none of the above

128. The Consumer Movement started rising in India as a social force due to \_\_\_\_\_.

- a. rampant food shortages  
b. unethical and unfair trade practices  
c. adulteration of food and edible oil  
d. All of the above

**SET-B**

129. What do you mean by the demand of a commodity? 2
- a. Desire for the commodity ☒ b. Need for the commodity
- c. Quantity demanded of that commodity ☐ d. Quantity that consumers are able and willing to buy at various prices during any particular period of time
130. Which among the following is best described as opportunity cost? 2
- a. Difference between the return on chosen option and the return on best forgone option ☒ b. Difference between two chosen options
- c. Difference between the return this year and the previous year ☐ d. None of the above
131. Dhanvantari who was famous personality during Chandragupta Vikramaditya was a 2
- a. Musician ☒ b. Physician
- c. General ☐ d. Dramatist
132. In the vedic society term used to denote group of families was. 2
- a. Grama ☒ b. Gotra
- c. Vish ☐ d. Jana
133. In which year 'BRIC' grouping was formed as 'BRICS'? 2
- a. 2010 ☐ b. 2015
- c. 2009 ☐ d. 2012
134. Bodies which usually fall from the sky on earth are called 2
- a. Comets ☒ b. Meteors
- c. Rock ☐ d. None of these
135. The lowest temperature of air is recorded at 2
- a. Mid night ☒ b. Just after sunset
- c. Just before sunrise ☐ d. 4 a.m
136. The Berlin wall fall in 2
- a. November 1989 ☐ b. December 1989
- c. Jan-90 ☐ d. February 1990
137. Sri Lanka emerged as an independent country in 2
- a. 1948 ☒ b. 1947
- c. 1949 ☐ d. 1958
138. Who was the first Muslim ruler of Delhi? 2
- a. Qutubudin Aibak ☒ b. Iltutmish
- c. Bahadur Shah ☐ d. Babar
139. Which of the following was the founder of Arya Samaj? 2
- a. Mahatma Gandhi ☒ b. Raja Rammohan Roy
- c. Dayanand Saraswati ☐ d. Gopal Krishna Gokhale

140. Brihadisvara Temple is located in which state?

- a. Tamil Nadu  
b. Karnataka  
c. Andhra Pradesh  
d. Odisha

141. The tertiary education includes

- a. Primary and secondary Education  
b. Higher & Vocational Education  
c. Only Vocational Education  
d. Primary Education

142. The Warsaw Pact was led by

- a. Japan  
b. Britain  
c. Italy  
d. the Soviet Union

143. It is a fundamental duty of every citizen to protect and improve \_\_\_\_\_

- a. Women and children  
b. Village Panchayat  
c. Natural environment  
d. National anthem

144. The World Trade Center and Pentagon buildings of the USA were attacked by:

- a. Zamait-e-Islami.  
b. Al-Qaeda.  
c. Al-Badr.  
d. Hamas.

145. Which one of the following lakes in India has the highest water salinity?

- a. Wular  
b. Chilka  
c. Sambhar  
d. Dal

146. Pong Dam is located on the river

- a. Beas  
b. Jhelum  
c. Ravi  
d. Sutlej

147. SEBI (Securities and Exchange Board of India) was established as a statutory body in the year

- a. 1990  
b. 1993  
c. 1992  
d. 1994

148. Which of the following is not related to nuclear proliferation?

- a. CEATO  
b. NATO  
c. CTBT  
d. NPT

149. Which is the deepest land locked port in India ?

- a. Marmugoa Port  
b. Kandla Port  
c. Mumbai Port  
d. Visakhapatnam Port

150. The temples of Khajuraho were built by

- a. Chandelas  
b. Pallavas  
c. Chalukyas  
d. Qutubuddins