

SAFE HANDS, AKOLA

STD. 9TH (Test for Competitive-03) ANSWER KEY Dt. 09-10-2023

PHYSICS	
[Q. NO.]	[ANS]
1	A
2	C
3	C
4	A
5	A
6	B
7	C
8	C
9	D
10	A
11	B
12	B
13	B
14	D
15	D
16	B
17	B
18	A
19	D
20	A

CHEMISTRY	
[Q. NO.]	[ANS]
21	C
22	A
23	D
24	B
25	B
26	A
27	C
28	B
29	C
30	B
31	C
32	B
33	C
34	B
35	A
36	D
37	A
38	A
39	B
40	B

BIOLOGY	
[Q. NO.]	[ANS]
41	D
42	C
43	D
44	C
45	C
46	B
47	D
48	D
49	A
50	C
51	C
52	C
53	C
54	C
55	C
56	D
57	C
58	A
59	B
60	D

MATHS	
[Q. NO.]	[ANS]
61	B
62	B
63	A
64	B
65	C
66	B
67	C
68	D
69	B
70	B
71	D
72	A
73	A
74	D
75	D
76	B
77	C
78	D
79	D
80	C

G.K./Mental Ability	
[Q. NO.]	[ANS]
81	C
82	C
83	D
84	A
85	C
86	C
87	D
88	D
89	A
90	D
91	A
92	C
93	A
94	D
95	B
96	A
97	D
98	A
99	B
100	B

SECTION V – G.K / Mental Ability

81. Sunscreen lotion contains ___ and ___ to protect skin from solar radiation. (HBBV 2013)
 (a) Magnesium oxide and Zinc oxide
 (b) Zinc oxide and oil
 (c) Zinc oxide and Titanium oxide
 (d) Magnesium oxide and oil

Ans: (c)

82. Generic medicines are affordable medicines and are being promoted these days. Which of the following is *not* the characteristic of generic medicine? (HBBV 2015)
 (a) They are equally effective as their branded counterpart.
 (b) They are chemically identical to their branded counterpart.
 (c) Generic substitutes for newly developed drugs are immediately available in the market.
 (d) Mode of administration of these drugs is same as branded medicines.

Ans: (c)

Solution: Generic substitutes of newly developed drugs are made available in market only after 15 years, so that company can get returns on the investments put up on research and development of that drug.

83. Select the correct animal from the following which has the highest blood pressure? (HBBV 2022)
 (a) Elephant (b) Lion
 (c) Monkey (d) Giraffe

Ans: (d)

84. Which of the following company prepared vaccine named 'Covaccine' on Covid-19? (HBBV 2021)
 (a) Bharat Biotech (b) Serum Institute
 (c) Zydus Cadila (d) Indian Immunologicals

Ans: (a)

85. What is Polygraph Test? (HBBV 2010)
 (a) Narco analysis (b) Brain Mapping
 (c) Lie Detector (d) 2D echocardiograph

Ans: (c)

86. Select the related letters from the given alternatives: (Silver Zone 2022-23)

BDCE: GIHJ:: QSRT: ?_?

- (a) VWXY (b) UWMX
 (c) VXWY (d) UWNX

Ans : (c)

Solution: The pattern followed is-

B	D	C	E
(+5)	(+5)	(+5)	(+5)
G	I	H	J

Similarly, for QSRT –

Q	S	R	T
(+5)	(+5)	(+5)	(+5)
V	X	W	Y

87. In a certain code language, if 'DOWN' is written as '5@9#' and 'NAME' is written as '#6%3', then '%@53' be the code for _____. (SoF IMO 2017)
 (a) DAME (b) MADE
 (c) DOME (d) MODE

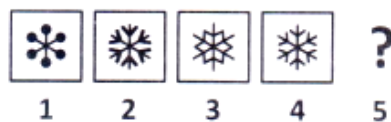
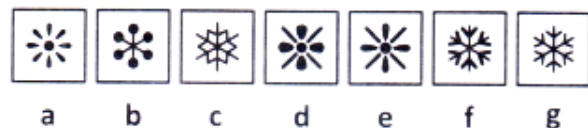
Ans: (d)

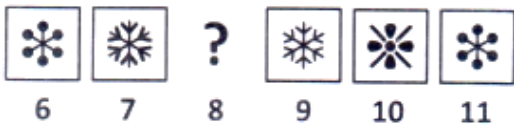
Solution: Code given for each letter is as below

Letter	Code
D	5
O	@
W	9
N	#
A	6
M	%
E	3

Then code %@53 be the code for MODE

88. The figures from 1 to 11 in the question are arranged as per fixed pattern. Choose the missing figures 5 and 8 from (a to g). (Unified Council's UIMO 2022)

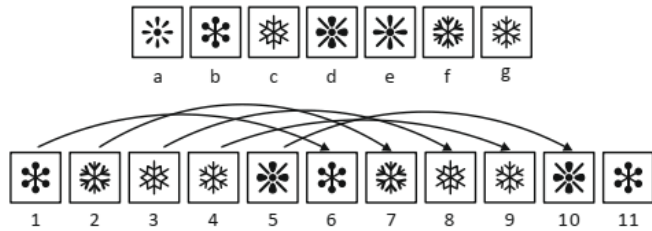




- (a) 1 = e, 2 = d (b) 1 = d, 2 = f
 (c) 1 = b, 2 = c (d) 1 = d, 2 = c

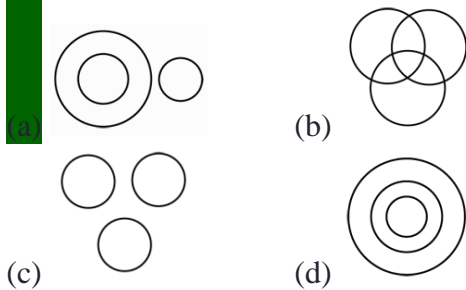
Ans : (d)

Solution: Refer the below image to find the answer



89. Select from four alternative diagrams, the one that best illustrates the relationship among the three classes: (Silver Zone iOS 2022)

Pigeons, Birds, Dogs:



Ans (a)

Solution: All pigeons are birds and all dogs are animals. Birds and animals have nothing in common. Hence, option A is correct.

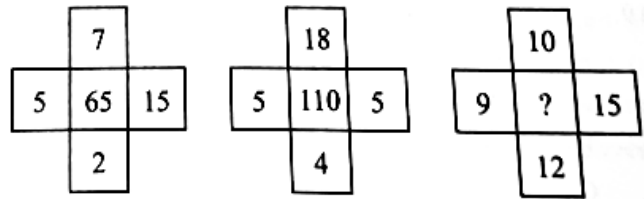


90. Pointing towards Neha, Sohan said, “her mother’s only daughter is my daughter.” How is Sohan related to Neha? (MTS 2005)

- (a) Brother (b) Uncle
 (c) Daughter (d) Father

Ans (d)

91. Find the missing number, if same rule is followed in all the three figures. (SoF IMO 2019-20)



- (a) 270 (b) 85 (c) 195 (d) 54

Ans: (a)

Solution: The rule followed is:

$$(7 \times 5) + (15 \times 2) = 35 + 30 = 65$$

$$\text{And } (18 \times 5) + (5 \times 4) = 90 + 20 = 110$$

$$\text{So, } (10 \times 9) + (15 \times 12) = 90 + 180 = 270$$

92. This is the image of a clock facing a mirror. What is the exact time by this clock? (Unified Council’s UIMO)



- (a) 7: 10 (b) 5:50 (c) 4: 50 (d) 5 :10

Ans : (c)

93. How many 1’s are there in the following series, each of which is immediately preceded by an even number but not immediately followed by a prime number? (SoF NSO 2020-21)

2 6 3 1 4 6 1 2 7 5 4 1 8 1 6 5 2 1 3 4 7 6 1 4 5

- (a) 3 (b) 4 (c) 2 (d) 5

Ans : (a)

Solution:

2 6 3 1 4 6 1 2 7 5 4 1 8 1 6 5 2 1 3 4 7 6 1 4 5

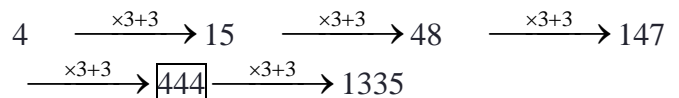
94. Find the missing number in the given number series. (SoF IMO 2022-23)

4, 15, 48, 147, __?__, 1335

- (a) 364 (b) 441 (c) 426 (d) 444

Ans : (d)

Solution:



95. If the following words are arranged in the order, as in a dictionary, which will be the third word? (MTS 2005)

- (a) amphibian (b) amorphous
(c) ambiguous (d) ambivalent

Ans: (b)

Solution: According to arrangement of words in alphabetical order the sequence will be:

1	ambiguous
2	ambivalent
3	amorphous
3	amphibian

96. As Grape is to bunch, birds is to – (MTS 2000)

- (a) flock (b) group (c) collector (d) hive

Ans: (a)

97. As Garden is to fence what is to bank? (MTS 2000)

- (a) building (b) counter
(c) sea (d) river

Ans : (d)

For Q. no 98 & 99 : A key word is given at the beginning of each question. Four alternatives are given against the keyword. Find out the word that has nearly **the same** meaning as the key word: (MTS-2002)

98. Famous

- (a) Renowned (b) Wise
(c) Familiar (d) Talented

Ans : (a)

99. Rude

- (1) Mild (b) Blunt
(3) Sharp (d) Immature

Ans : (b)

100. Find the missing number in the given series.

2, 17, 82, ?, 626 (SoF IMO 2021-22)

- (a) 17 (b) 84
 (c) 257 (d) 625

Ans : (c)

Solution:

The pattern followed is:

$$1^2 + 1, 4^2 + 1, 9^2 + 1, 16^2 + 1, 25^2 + 1$$

$$\text{So, missing number} = 16^2 + 1 = 256 + 1 = 257$$