

# SAFE HANDS, AKOLA

STD. 10th (Test for Competitive-01) ANSWER KEY Dt. 04-09-2023

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

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

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

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

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

**SECTION – V [Mental Ability & G.K.]**

81. Where did the Government of India establish 'The Film and Television Institute' of India in 1960? (NTSE 2019-20)

- (a) Delhi
- (b) Mumbai
- (c) Chennai
- (d) Pune

82. .... is the birthdate of Major Dhyan Chand is celebrated as the 'National Sports Day' in India. (NTSE 2018-19)

- (a) 28 October
- (b) 29 August
- (c) 10 December
- (d) 14 April

83. Who appoints the Election Commissioner in India? (NTSE 2018-19)

- (a) President
- (b) Prime Minister
- (c) Speaker of Lok Sabha
- (d) Vice President

84. Who was the painter of this famous immortal picture? (NTSE 2016-17)

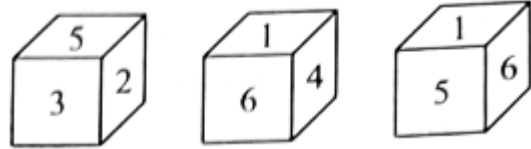


- (a) Michelangelo
- (b) Leonardo-da-Vinci
- (c) Raphael
- (d) Donato

85. Identify the well-known play of Shakespeare on which Marathi play 'Natsamarat' was styled? (NTSE 2020-21)

- (a) Hamlet
- (b) King Lear
- (c) Julius Ceaser
- (d) Romeo – Juliet

86. Three positions of a dice are shown below. Find the number on the face opposite to the face having number '4'. (SOF 2021-22)



- (a) 6
- (b) 5
- (c) 2
- (d) 3

**Solution:**

The numbers on opposite faces are: (1,2), (3,6) and (4,5). **Correct option is (b)**

87. Select the correct mirror image of Fig. (X) along the mirror PQ. (SOF IMO 2016)

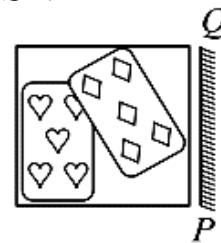


Fig. (X)

- (a)
- (b)
- (c)
- (d)

**Solution:**

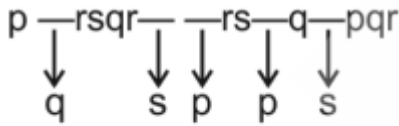
By observation

88. A rhythmic arrangement of letters is given. The missing letters appear in the same order in one of the alternative answers. Find the correct alternative. (NTSE 2020-21)

**p – rsqr - - rs – q - ppr**

- (a) qrspq (b) qrppr  
 (c) qspps (d) qspqr

**Solution:**



Pattern is

pqrs, qrsp, rspq, spqr

89. If the animals which can walk are called 'swimmers', animals who crawl are called 'flying', those living in water are called 'snakes' and those which fly in the sky are called 'hunters', then what will a lizard be called ? (SOF NSO 2011)

- (a) Swimmers (b) Snakes  
 (c) Flying (d) Hunters

**Solution:**

We all know that lizard can crawl and it is given that animals that crawl are called “flying”, so the answer is (C)

90. A school boy was having Deepavali vacation from 11 October to 28 October 2012. It was Monday on the 10th Day before the start of the vacation. After the vacation, the school excursion was arranged on the 7th day from the reopening of the school. On which Day was the school excursion arranged? (NTSE 2017-18)

- (a) Sunday (b) Friday  
 (c) Thursday (d) Tuesday

**Solution:**

October, 2012						
Su	Mo	Tu	We	Th	Fr	Sa
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

**Refer the above calendar to find the answer.**

School is opening on 29<sup>th</sup> October 2012 and the school excursion was arranged on the 7th day from the reopening of the school.

So, 4<sup>th</sup> November will be Sunday

91. A is 25th from the right end and B is 25th from the left end of a row. If they interchange their position then A becomes 25th from the left end. How many persons are sitting in the row? (Unified Council’s NSTSE)

- (a) 51  
 (b) 50  
 (c) 49  
 (D) Cannot be determined

**Solution:**

*Since we doesn't get the position of any of the person from both the ends before or after interchanging then it is not possible to answer how many persons are there in the row.*

92. How many meaningful words can be made from the letters **N, R, E and A**, using each letter only once? (Unified Council’s NSO 2018-19)

- (a) None (b) One (c) Two (d) Three

**Solution:**

**The meaningful words formed are NEAR & EARN. So correct option is C.**

93. Select the related number from the given alternatives. (Silver Zone iOS 2022-23)

6: 222 :: 7 : ?

- (a) 350 (b) 343 (c) 336 (d) 210

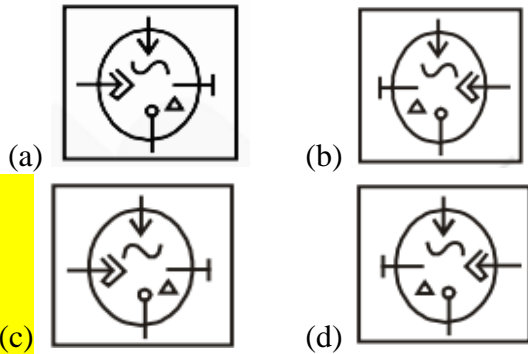
**Solution:**

$$(6)^3 + 6 = 222.$$

Similarly,

$$(7)^3 + 7 = 350$$

94. Find the odd figure. (NTSE 2019-20)



**Solution:**

Look at the symbol in option (C) to find the answer.

95. Find out the group of letters from the options that matches the given group. (NTSE 2019-20)

**AUEFG EOVMX IAPQR**

- (a) OQRST (b) UEJKL  
(c) OKEFG (d) UGHIJ

**Solution:**

Correct option is (b)

AUEFG first 2 letters are vowels and remaining 3 letters are in sequence.

EQVMX first 2 letters are vowels and remaining 3 letters are in sequence.

IAPQR first 2 letters are vowels and remaining 3 letters are in sequence.

Similarly

UEJKL first 2 letters are vowels and remaining 3 letters are in sequence.

96. Three friends Ram, Harsha and Prithvi arrived at the movie theatre at different timings. Prithvi reached at 1:30 pm. Harsha reached an hour and a half before Prithvi. Ram reached 15 mins after Harsha. At what time did Ram reach? (Unified Council's UIMO 2023)

- (a) 12:00 pm (b) 1:15 pm  
(c) 11:45 am (d) 12:15 pm

**Solution:**

Prithvi reached 1:30

Harsha reached hour and a half before Prithvi, means = 1:30 – 1:30 = 12:00

Ram reached 15 minutes after Harsha means 12:15 pm

97. In the given question, three words are given and forms a group. Identify the correct alternative belongs to the group? (MTSE 2001)

**Potter, Plumber, Shoemaker, ?**

- (a) Carpenter (b) Student  
(c) Graduate (d) Teacher

**Solution:**

Potter, Plumber, Shoemaker are the occupations in the same way Carpenter is occupation, so correct option is (a)

98. In a certain code language, if 'ta ka re ma' means 'birds fly very high', 'si ma do ka' means 'birds are very beautiful' and 'ne ja re ba' means 'the parrots could fly', then which letter code stands for high? (SOF IMO 2017-18)

- (a) ta (b) re (c) ka (d) ma

**Solution:**

ta ka re ma	birds fly very high
si ma do ka	birds are very beautiful
ne ja re ba	the parrots could fly

Code is as below:

SPACE FOR ROUGH WORK

ka → Birds, re → fly ma → very  
 In the first sentence only ta is remaining so it's clear from the above that code for high is ta, option (A) is correct answer.

**Solution:**  
 By Observation

99. In the following questions the numbers outside the bracket are related to number inside the bracket in a specific manner. From the given manner find the right number which matches and will replace the question mark. (NTSE 2020-21)

78 (20) 82  
 37 (12) 59  
 45 (?) 91

- (a) 13      (b) 17      (c) 19      (d) 23

**Solution:**

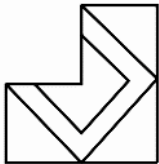
78 (20) 82  
 37 (12) 59  
 45 (1) 91

$$\frac{78+82}{8} = 20$$

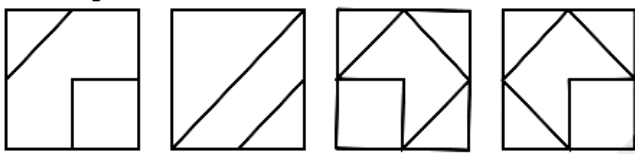
$$\Rightarrow \frac{45+91}{8} = \frac{136}{8} = 17(2)$$

100. **Direction:** Select the correct alternatives which can complete the figures. (NTSE 2020-21)

Question figure



Answer figure



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

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