

Section : General Aptitude Test

Q.1

Match **List-I** with **List-II**

List-I	List-II
(Expressions)	(Values)
(A) $1/6! + 1/7! = x/8!$ Find x	(I) 1
(B) Evaluate: $\frac{n!}{(n-r)!}$, $n = 6, r = 2$	(II) 100
(C) If ${}^nC_9 = {}^nC_8$, find ${}^nC_{17}$.	(III) 64
(D) ${}^6P_3 - {}^5P_2$	(IV) 30

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (II), (B) - (III), (C) - (IV), (D) - (I)
3. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)
4. (A) - (IV), (B) - (I), (C) - (II), (D) - (III)

Options 1. 1

2. 2
3. 3
4. 4

Q.2

In an examination which had 200 questions, students score 4 marks for every correct answer and lose 1 mark for every wrong answer.

A student attempted all the 200 questions and scored 200 marks. The number of questions, student answered correctly in the examination, is:

1. 60
2. 68
3. 80
4. 82

Options 1. 1

2. 2
3. 3
4. 4

Q.3

If HOME is coded as 815135. How can ROAD be written as?

1. 810034
2. 181514
3. 351518
4. 510035

Options 1. 1

2. 2
3. 3
4. 4

Q.4

Read the information given below carefully and answer the question that follows :

There are six members in a family, named, A, B, C, D, E, and F. B is the son of C but C is not the mother of B. A and C are a married couple. E is the brother of C, D is the daughter of A. F is the brother of B.

- (A) There are only three male members in the family
- (B) A has only three children
- (C) A and D are both females
- (D) D is a female but A is not a female

Choose the **correct** answer from the options given below:

1. (A), (B), (C), and (D) are all incorrect
2. (A), (B), (C), and (D) are all correct
3. (A) and (C) are correct but (B) and (D) are incorrect
4. (A) and (D) are incorrect but (B) and (C) are correct

Options 1. 1

2. 2
3. 3
4. 4

Q.5

If J is the sister of K. K is the sister of L. L is the sister of M. M is the brother of N. Then which of the following statements is not necessary true?

- (A) K and L are sisters.
- (B) M and N are brothers.
- (C) L is sister of N.
- (D) J, K, L are females and M is male.

Choose the **correct** answer from the options given below:

1. (B) and (D) only
2. (B) only
3. (A) and (C) only
4. (A) only

Options 1. 1

2. 2
3. 3
4. 4

Q.6

When was the state of Andhra Pradesh bifurcated into Telangana and Andhra Pradesh by the Andhra Pradesh Reorganisation Act?

1. 2011
2. 2012
3. 2014
4. 2016

Options 1. 1

2. 2
3. 3
4. 4

Q.7

If day before yesterday was Friday, then what will be the Tuesday?

1. A day after tomorrow
2. tomorrow
3. today
4. 3rd day after today

Options 1. 1

2. 2
3. 3
4. 4

Q.8

Six friends, A, B, C, D, E and F are sitting in a row facing towards East. E and F are in the center, and A and B are at the ends. C is sitting on the left of A. Then match **List-I** with **List-II**

List-I	List-II
(A) How many people are there to the right of D?	(I) F
(B) Who is sitting on the right of B?	(II) D
(C) Who is immediate left of C?	(III) Four
(D) How many people are there to the left of E?	(IV) Two

Choose the **correct** answer from the options given below:

1. (A) - (IV), (B) - (II), (C) - (I), (D) - (III)
2. (A) - (III), (B) - (II), (C) - (I), (D) - (IV)
3. (A) - (III), (B) - (I), (C) - (II), (D) - (IV)
4. (A) - (IV), (B) - (I), (C) - (II), (D) - (III)

Options 1. 1

2. 2
3. 3
4. 4

Q.9

Arrange the following major advances in Indian Epigraphy in chronological order, beginning with the earliest to the most recent.

- (A) Alexander Cunningham published a set of Ashokan inscriptions
- (B) James Prinsep deciphers Ashokan Brahmi
- (C) First issue of *Epigraphia Indica*
- (D) First issue of *Epigraphia Carnatica*

Choose the **correct** answer from the options given below:

1. (A), (B), (C), (D)
2. (A), (B), (D), (C)
3. (B), (A), (C), (D)
4. (B), (A), (D), (C)

Options 1. 1

2. 2
3. 3
4. 4

Q.10

Which one of the following is **NOT** an example of "In Situ" biodiversity conservation efforts in India?

1. Botanical Garden
2. National Park
3. Wildlife Sanctuaries
4. Biosphere Reserve

Options 1. 1

2. 2

3. 3

4. 4

Q.11

Point A (4, 2) divides segment BC in the ratio 2:5. Coordinates of B and C are (2,6), (9,y) respectively. Find the value of y.

1. 6
2. -6
3. 8
4. -8

Options

1. 1

2. 2
3. 3
4. 4

Q.12

Who among the following discovered that when light traverses a transparent material, some of the light that is deflected changes in wavelength?

1. Jagadish Chandra Bose
2. C. V. Raman
3. Meghnad Saha
4. Satyendra Nath Bose

Options

1. 1

2. 2
3. 3
4. 4

Q.13

Megha is fifth from the left end and Priya is tenth from the right end in a row of girls. If there are nine girls between Megha and Priya, how many girls are there in the rows?

1. 26
2. 25
3. 24
4. 23

Options

1. 1

2. 2
3. 3
4. 4

Q.14

The state of Arunachal Pradesh does **NOT** share a land border with which of the following countries?

1. Bangladesh
2. China
3. Bhutan
4. Myanmar

Options

1. 1

2. 2
3. 3
4. 4

Q.15

In which year the Department of Non-Conventional Energy Sources (DNES), under the Ministry of Energy, was upgraded into a separate Ministry of Non-Conventional Energy Sources (MNES)?

1. 1985
2. 1988
3. 1992
4. 1995

Options

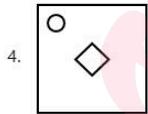
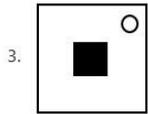
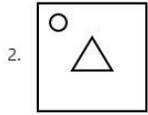
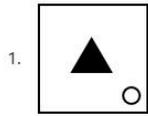
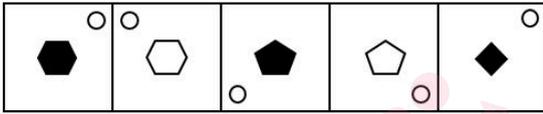
1. 1

2. 2
3. 3
4. 4

Q.16

Select a figure from the answer figures which will continue the series indicated by the five problem figures.

Problem figure:



Options 1. 1

2. 2

3. 3

4. 4

Q.17

What will be the measurement of the angle made by the hands of a clock when the time is 8 : 40 ?

1. 20°
2. 35°
3. 48.5°
4. 50°

Options 1. 1

2. 2

3. 3

4. 4

Q.18

Which of the following will show "Tyndall Effect"?

- (A) Mixture of water and milk
- (B) Sunlight passing through a canopy of dense forest
- (C) Solution of copper sulphate
- (D) Light entering a smoke-filled room through a small hole

Choose the **correct** answer from the options given below:

- 1. (A), (B) and (C) only
- 2. (A), (B) and (D) only
- 3. (A), (C) and (D) only
- 4. (B), (C) and (D) only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Q.19

Which of the following country entered into a treaty with Azerbaijan in 2025, ending almost 40 years of conflict?

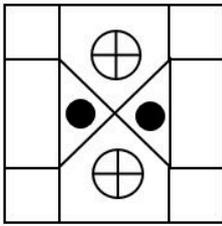
- 1. Georgia
- 2. Uzbekistan
- 3. Belarus
- 4. Armenia

Options 1. 1

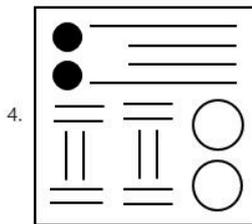
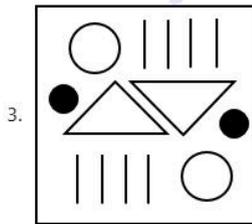
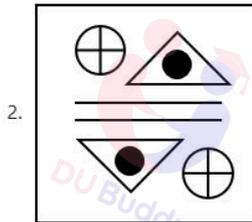
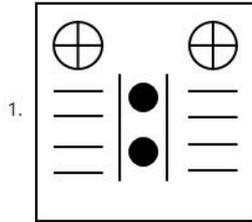
- 2. 2
- 3. 3
- 4. 4

Q.20

Problem Figure:



Choose the correct figure given below from the options that can construct the problem figure.



Options 1. 1

2. 2

3. 3

4. 4

Q.21

Who is the author of the book '*The Mughals of India*' ?

1. William Dalrymple

2. Romila Thapar

3. Harbans Mukhia

4. John F. Richards

Options 1. 1

2. 2

3. 3

Q.22

Select the one which is different from the other three alternatives:

1. 7 , 56
2. 13 , 78
3. 9 , 64
4. 11 , 132

Options 1. 1

2. 2
3. 3
4. 4

Q.23

The age distribution of 40 children is as follows

Age (in yr.)	5- 6	6- 7	7 - 8	8 - 9	9 - 10	10 - 11
No. of children	4	7	9	12	6	2

Consider the following statements in respect of the above frequency distribution.

- (A) The median of the age distribution is 7 yr.
- (B) 70% of the children are in the age group 6-9 yr.
- (C) The modal class of the children is 8-9 yr.

Which of the above statements are true?

Choose the **correct** answer from the options given below:

1. (A) and (B) only
2. (B) and (C) only
3. (A) and (C) only
4. (A), (B) and (C) only

Options 1. 1

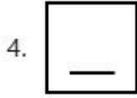
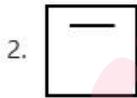
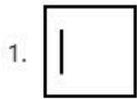
2. 2
3. 3
4. 4

Q.24

Find out the answer figure which completes the problem figure matrix.

Problem figure:



Options 1. 1

2. 2

3. 3

4. 4

Q.25

The remainder when $(15^{23} + 23^{23})$ is divided by 19, is:

1. 18

2. 15

3. 4

4. 0

Options 1. 1

2. 2

3. 3

4. 4

Q.26

The monthly salary of A, B and C are in the ratio 2:3: 5. If C's monthly salary is Rs.1200 more than that of A, then B's annual salary is:

1. Rs. 24000

2. Rs. 14400

3. Rs. 12000

4. Rs. 96000

Options 1. 1

2. 2

3. 3

4. 4

Q.27

Which of the following Amendments to the Constitution of India provided that the total number of Ministers, including the Prime Minister, in the Council of Ministers shall not exceed 15% of the total members of the Lok Sabha?

1. 91st Amendment
2. 93rd Amendment
3. 95th Amendment
4. 99th Amendment

Options

1. 1
2. 2
3. 3
4. 4

Q.28

What number should replace the question mark ?

13	4
2	5
12	5

23	9
24	
22	32

2	9
?	
12	24

1. 5
2. 26
3. 0
4. 48

Options

1. 1
2. 2
3. 3
4. 4

Q.29

Choose the option that shall come in place of the ? in the following series :

25WV52, 23TS32, 21QP12, ?, 17KJ71

1. 19MN91
2. 19ON92
3. 19NM91
4. 19LK92

Options

1. 1
2. 2
3. 3
4. 4

Q.30

Which of the following are "unicellular" organisms?

- (A) Plasmodium
- (B) Protoza
- (C) Spirogyra
- (D) Leishmania

Choose the **correct** answer from the options given below:

- 1. (A), (B) and (C) only
- 2. (A), (B) and (D) only
- 3. (A), (C) and (D) only
- 4. (B), (C) and (D) only

Options 1. 1

2. 2

3. 3

4. 4

Q.31

The Tlawng river is located at which of the following cities in India?

- 1. Imphal
- 2. Aizawl
- 3. Agartala
- 4. Itanagar

Options 1. 1

2. 2

3. 3

4. 4

Q.32

How many two-digit numbers are divisible by 3?

- 1. 30
- 2. 20
- 3. 10
- 4. 8

Options 1. 1

2. 2

3. 3

4. 4

Q.33

Match **List-I** with **List-II**

List-I	List-II
(A) The least number that must be subtracted from 2025 to get a number exactly divisible by 17	(I) 5
(B) The least number that must be added to 1057^5 to get a number exactly divisible by 23	(II) 2
(C) Unit digit of $6^{15}-7^4$	(III) 0
(D) Find the product of any number and the 1st whole number	(IV) 1

Choose the **correct** answer from the options given below :

1. (A) - (II), (B) - (III), (C) - (I), (D) - (IV)
2. (A) - (II), (B) - (IV), (C) - (I), (D) - (III)
3. (A) - (II), (B) - (I), (C) - (IV), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

Options 1. 1

2. 2
3. 3
4. 4

Q.34

At the foot of a mountain, the elevation of the summit is 45° . After ascending 2 kilometers towards the mountain, at an incline of 30° , the elevation changes to 60° . Determine the height of the mountain ?

1. $(\sqrt{3} - 1)$ kilometre
2. $(\sqrt{3} + 1)$ kilometre
3. $(\sqrt{3} - 2)$ kilometres
4. $(\sqrt{3} + 2)$ kilometres

Options 1. 1

2. 2
3. 3
4. 4

Q.35

Match **List-I** with **List-II**

List-I	List-II
Sportsperson receiving Major Dhyan Chand Khel Ratna Awards	Discipline
(A) Gukesh D	(I) Para-athletics
(B) Harmanpreet Singh	(II) Hockey
(C) Praveen Kumar	(III) Chess
(D) Manu Bhaker	(IV) Shooting

Choose the **correct** answer from the options given below:

1. (A) - (III), (B) - (II), (C) - (IV), (D) - (I)
2. (A) - (III), (B) - (II), (C) - (I), (D) - (IV)
3. (A) - (III), (B) - (I), (C) - (II), (D) - (IV)
4. (A) - (I), (B) - (III), (C) - (II), (D) - (IV)

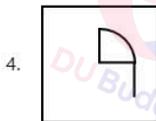
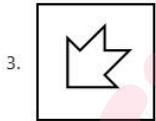
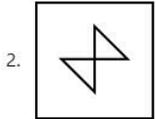
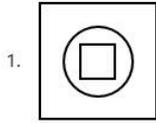
Options 1. 1

2. 2
3. 3
4. 4

Q.36

Given below from the options, choose the answer figure which is embedded in the question figure.

Question figure:



Options

1. 1
2. 2
3. 3
4. 4

Q.37

Arrange the following historical events in chronological order, beginning with the earliest to the most recent.

- (A) Universities established in Bombay, Madras and Calcutta
- (B) Transfer of Capital from Calcutta to Delhi
- (C) Supreme Court set up in Calcutta by the East India Company
- (D) Asiatic Society founded by Sir William Jones

Choose the **correct** answer from the options given below:

1. (C), (D), (A), (B)
2. (C), (D), (B), (A)
3. (D), (C), (B), (A)
4. (D), (C), (A), (B)

Options

1. 1
2. 2
3. 3
4. 4

Q.38

Ram, Shyam and Hari can complete a work in 20, 25 and 30 days, respectively.

Consider the following statements:

(A) Ram and Shyam together will complete the work in $11\frac{1}{9}$ days.

(B) Shyam and Hari together will complete the work in 14 days.

Choose the **correct** answer from the options given below:

1. (A) only
2. (B) only
3. (A) and (B)
4. Neither (A) nor (B)

Options 1. 1

2. 2
3. 3
4. 4

Q.39

The area of a sector of a circle of radius 36 cm is 72π cm². Find the length of the corresponding arc of the sector.

1. 4π cm
2. 3π cm
3. 2π cm
4. π cm

Options 1. 1

2. 2
3. 3
4. 4

Q.40

Kalibangan, an archaeological site, is located in which state in India?

1. Uttar Pradesh
2. Assam
3. Haryana
4. Rajasthan

Options 1. 1

2. 2
3. 3
4. 4

Q.41

Match **List-I** with **List-II**

List-I	List-II
Travelers to India	The country they belonged to
(A) Duarte Barbosa	(I) Turkey
(B) Seydi Ali Reis	(II) Italy
(C) Marco Polo	(III) Morocco
(D) Ibn Batuta	(IV) Portugal

Choose the **correct** answer from the options given below:

1. (A) - (IV), (B) - (I), (C) - (II), (D) - (III)
2. (A) - (IV), (B) - (I), (C) - (III), (D) - (II)
3. (A) - (I), (B) - (IV), (C) - (II), (D) - (III)
4. (A) - (I), (B) - (IV), (C) - (III), (D) - (II)

Options 1. 1

2. 2
3. 3
4. 4

Q.42

A bus passes two persons moving in the direction of the moving bus at a speed of 3 km/hr and 5 km/hr, respectively. The bus passes the first person in 10 s and the second person in 11 s. Find the speed of the bus.

1. 28 km/hr
2. 27 km/hr
3. 25 km/hr
4. 24 km/hr

Options 1. 1

2. 2
3. 3
4. 4

Q.43

A basket contains 4 red, 5 blue and 3 green marbles. If three marbles are picked at random, what is the probability that at least one is blue?

1. $\frac{5}{12}$
2. $\frac{7}{12}$
3. $\frac{7}{44}$
4. $\frac{37}{44}$

Options 1. 1

2. 2
3. 3
4. 4

Q.44

Which of the following collections of letters will look the same in the mirror?

- (A) OXA8voHM
- (B) TWOVIMYOU
- (C) HV8SIMOT
- (D) AIXW08VA

Choose the **correct** answer from the options given below:

1. (A) and (C) only
2. (A), (B) and (D) only
3. (C) and (D) only
4. (B), (C) and (D) only

Options 1. 1

2. 2
3. 3
4. 4

Q.45

The Goods and Services Tax Act, expected to create "One Nation, One Tax and One Market", came into effect in which year?

1. 2013
2. 2015
3. 2017
4. 2019

Options 1. 1

2. 2
3. 3
4. 4

Q.46

Consider the compound interest in the following cases :

- (A) The compound interest on Rs 16000 at 20% per annum for 9 months, compounded quarterly is Rs. 2500
- (B) The compound interest on Rs 2800 at 10% per annum for 18 months is Rs. 434 .

Choose the **correct** statment(s) :

1. Only (A)
2. Only (B)
3. (A) and (B)
4. Neither (A) nor (B)

Options 1. 1

2. 2
3. 3
4. 4

Q.47

Baking powder is a mixture of baking soda (sodium hydrogen carbonate) and _____?

1. Acetic Acid
2. Citric Acid
3. Tartaric Acid
4. Oxalic Acid

Options 1. 1

2. 2
3. 3

Q.48

Which among the following is India's first pico-satellite, weighing less than 1kg, developed by a consortium of seven engineering colleges of India?

1. ANUSAT
2. PRATHAM
3. STUSAT
4. SWAYAM

Options 1. 1

2. 2
3. 3
4. 4

Q.49

Profit earned by selling an article for Rs.1060 is 20% more than the loss incurred by selling the article for Rs.950. At what price should the article be sold to earn a 20% profit?

1. Rs 1100
2. Rs. 1150
3. Rs. 1200
4. Rs. 1250

Options 1. 1

2. 2
3. 3
4. 4

Q.50

Iceland is an example of _____ .

1. Seamount
2. Mid-oceanic Ridge
3. Atoll
4. Guyot

Options 1. 1

2. 2
3. 3
4. 4