



"Where working hard is a habit"

IIT ASHRAM

JEE MAIN || JEE ADVANCED || MEDICAL || FOUNDATION

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UDAAN (2020) ANSWER KEY AND SOLUTION CLASS - 5

Mental Ability		Mathematics		Physics & Chemistry		Biology	
Q. No.	Ans	Q. No.	Ans	Q. No.	Ans	Q. No.	Ans
1	C	1	A	1	C	1	B
2	B	2	C	2	B	2	D
3	B	3	C	3	A	3	B
4	D	4	D	4	A	4	B
5	A	5	A	5	D	5	C
6	C	6	B	6	C	6	D
7	A	7	C	7	D	7	D
8	B	8	C	8	C	8	C
9	A	9	C	9	A	9	C
10	B	10	A	10	D	10	A
11	C	11	A	11	B	11	A
12	C	12	C	12	A	12	C
				13	B		
				14	A		
				15	A		
				16	B		
				17	D		
				18	C		
				19	B		
				20	B		
				21	C		
				22	B		
				23	B		
				24	B		

PART - I

MENTAL ABILITY

1. (c) by counting
2. (b) Except January all are days of week
3. (b) by observation
4. (d) by counting
5. (a) by showing
6. (c) '4' lies in circle, rectangle as well as triangle
7. (a)

$2, \quad 4, \quad 8, \quad 16, \quad 32, \quad \boxed{64}, \quad 128, \quad 256$
 $\quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2$

8. (b)

$\quad \quad 3 \quad \quad 1 \quad \quad 4 \quad \quad 2$
 SCENE, SIGN, SIMPLE, SOLID

9. (a)

T	R	E	E	F	R	O	G
↓	↓	↓	↓	↓	↓	↓	↓
7	1	0	0	2	1	5	9

F	R	E	E
∴ ↓	↓	↓	↓
2	1	0	0

10. (b)

Person writes with pencil

Pencil is called **paper**

11. (c) by observation
12. (c) Crawl

PART - II
MATHEMATICS

1. (a) Fraction of unshaded part is $\frac{2}{3}$
2. (c) $\frac{1}{8}$ means 1 out of '8'
3. (c) Shape of the door of bird house is **Circle**
4. (d) $272 \div 3$ gives remainder 2
5. (a)
Place value of 5 \rightarrow 5000
Face value of 5 \rightarrow 5
Difference = $5000 - 5 = 4995$
6. (b)
7. (c) $\text{LCM} = 2 \times 2 \times 2 \times 3 \times 3 = 72$
8. (c) Spent Money = 30% of ` 60
$$\frac{30}{100} \times 60 = 18$$
Remaining money = $60 - 18 = 42$
9. (c) Composite number having more than two factors.
10. (a) Ten millions = 10,000,000 = 1 Crores (1,00,00,000)
11. (a)
12. (c)

PART - III
PHYSICS/CHEMISTRY

1. (c)
2. (b)
3. (a)
4. (a)
5. (d)
6. (c)

7. (d)
1 km = 1000 m = 10^3
1 m = 100 cm = 10^2
10 km = 10^6 cm
8. (c)
Energy from water is known as hydro energy.
9. (a)
Earth's rotation is the reason for day and nights.
Earth's revolution is the reason for seasons.
10. (d)
Observations suggest that the expansion of the **universe will** continue **forever**. If so, then a popular theory is that the **universe will** cool as it **expands**, eventually becoming too cold to sustain life. For this reason, this future scenario once popularly called "heat death" is now known as the Big Freeze.
11. (b)
SI unit of any form of energy is Joule.
12. (a)
Astronomy is the scientific study of space & celestial objects.
- 13.(b) Compound is formed by combination of two or more than two elements. In a compound, the elements are combined together in a fixed proportion.
- 14.(a) Intense volcanic activity in the form of fissure eruption took place towards the end of Cretaceous period. The volcanic lava spread out in horizontal sheets.
- 15.(a) General weather for an area over a long period of time is called climate.
- 16.(b) Water and air can speed up rusting of iron.
- 17.(d) Symbol of Copper is Cu. Copper's Latin name was 'cyprium', which itself comes from 'kypros', the Greek name for Cyprus. The island of Cyprus was famous centuries ago for its copper reserves. The name was eventually simplified to 'cuprum'.
- 18.(c) Air contains 78.09% nitrogen, 20.95% oxygen, 0.04% carbon dioxide and other gases.
- 19.(b) Water vapour present in air got condensed around the glass.
- 20.(b) Coal, petroleum and natural gas are fossil fuels as they formed by dead remains of living organisms.
- 21.(c) Oxygen (component of air) is necessary for burning.
- 22.(b) Element is a substance that cannot be broken down into two or more simpler substances by any mean.
- 23.(b) Solution is formed by solvent and solute. Solute is the substance that gets dissolved.
- 24.(b) Igneous is a primary rock.

**PART - IV
BIOLOGY**

1. (b)
2. (d)
3. (b)
4. (b)
5. (c)
6. (d)
7. (d)
8. (c)
9. (c)
10. (a)
11. (a)
12. (c)

IIT ASHRAM
SCHOLARSHIP
TEST