



"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 - 6

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

## PART - I

### MENTAL ABILITY

1. (c) All having four or more than four corners.
2. (c) by showing
3. (a) by observation
4. (c)

J	U	N	I	O	R
3	6	5	1	4	2

5. (c) CHERRY cannot be made from BLACKBERRY
6. (c) by counting
7. (c)
8. (d) None of these

$$15 \times 2 + 900 \div 90 - 100$$

$$15 \times 2 + 10 - 100$$

$$- 40$$

9. (c) Epgene Epilogue Episode Epitaxy Epitome

Ans. 3, 5, 2, 1, 4

10. (a)
11. (a)

~~E X P L A I N I N G~~  
~~P X E A L N I G N I~~

~~P R O D U C E D~~  
~~O R P U D D E C~~

12. (b)

## PART - II

### MATHEMATICS

1. (c)

$$\star - \diamond = 330$$

$$4 \diamond - \diamond = 330$$

$$\diamond = 110$$

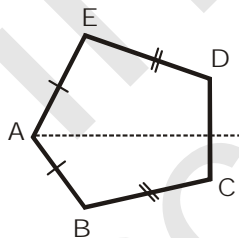
$$\star = 110 \times 4 = 440$$

$$\star + \diamond = 550$$

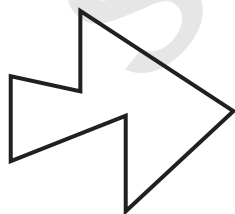
2. (b) by observation

3. (d)  $37034 = 30000 + 7000 + 0 + 30 + 4$ 

4. (a)



5. (c)



6. (d)

$$a \times (-6) = -48$$

$$a = 8$$

$\therefore$  another Integer = 8

7. (b) complete angle

8. (b)

by observation, we get

$$\therefore p = -9$$

$$q = 3$$

$$\therefore p + q$$

$$= -9 + 3 = -6$$

9. (c)

$$\text{Apple} = \frac{1}{2} \times 286 = 143$$

$$\text{pear} = 286 - 143 = 143$$

$$\text{Rotten pear} = \frac{4}{13} \times 143 = 44$$

$$\text{Selling price of 99 pear} =$$

$$\frac{45}{11} \times 99 = 405$$

10. (a)

$$\frac{5}{9} + \frac{6}{9} = \frac{11}{9}$$

11. (d) 0.005, 0.055, 0.55, 5.5

12. (c)

$$\text{Area of figure} = \text{Area of 3 square}$$

$$= 3 \text{ (side x side)}$$

$$= 3 (3 \times 3)$$

$$= 27 \text{ cm}^2$$

**PART - III**  
**PHYSICS/CHEMISTRY**

1. (d)
2. (a)
3. (a) Air flow occurs from high pressure region to low pressure region.
4. (c)
5. (c)
6. (b)  
Shadow is shortest when distance b/w sun and earth is  
So short/no shadow forms in the noon.  
Shadow will be longest in the mornings/evenings.
7. (a)
8. (d)
9. (c)  
Friction opposed relative motion.
10. (b)
11. (c)
12. (b) Kinetic energy is the energy possessed by a moving body.  $K.E. = \frac{1}{2} MV^2$
13. Flax is a plant Fiber. It is used to make Linen Fiber.
14. If all of the sugar or salt dissolves, add a little more sugar or salt and stir. Add sugar or salt until the water can't dissolve it anymore - the mixture is saturated. That means the water is holding as much of the sugar or salt as it can.
15. Colors, density, volume, mass, boiling point, melting point are some of the physical properties of a matter.
16. In exothermic change, heat is Liberated.
17. Material that can be drawn into a thin wire is considered as ductile materials.
18. Water cycle recycles water on earth.
19. Loading is the process of increasing the rate of sedimentation in a suspension.
20. Burning of candle is an example of both physical and chemical change. Burning is chemical change & melting of wax is physical change.
21. Material that can be drawn into a sheet or can be hammered is considered as malleable materials.
22. Evaporation can be used to separate soluble solid substance.
23. By heating the matter the heat energy absorbed by the particles and then it tends to vibrate more.
24. By heating the liquid the heat energy absorbed by the particles and it tends to vibrate more. Due to the vibrations the atoms moves more far apart from liquid state and liquid is transformed into gaseous state. This whole process is known as evaporation.

**PART - IV  
BIOLOGY**

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

IIT ASHRAM  
SCHOLARSHIP  
TEST