AMITY INSTITUTE
FOR COMPETITIVE EXAMINATIONS

Delhi Centres: • E-25, Defence Colony, New Delhi - 110024. Ph.: 011-24336143/44, 24331000-02.
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Noida Centre • Amity Campus, Sector-44, Noida - 201303. Ph.: 0120-2431839, 2431842.

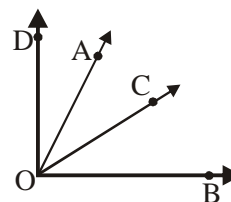# AMITY FIVE YEARS CONCEPTUAL PROGRAMME

AFYCP WORKSHEET

"*An Insight*"

CLASS (V)

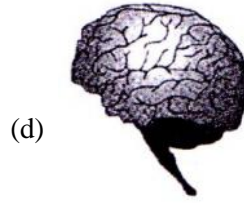*Time: 1 hr*   *Maximum Marks:* $(4 \times 30 = 120)$

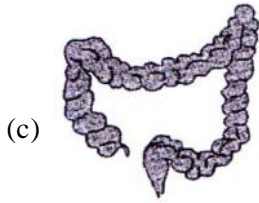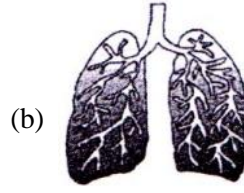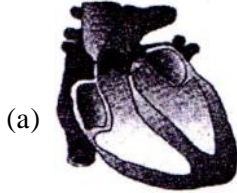### LEVEL-I

(2 Question Physics, 2 Chemistry, 4 Maths, 2 Bio)

1.   A seesaw is an example of a :

        (a) Wheel and axle   (b) Pulley   (c) Lever   (d) Screw

2.   This is the same as an inclined plane :

        (a) Wheel   (b) Ramp   (c) Pulley   (d) Swing

3.   The smallest unit of matter which retains the properties of it, is called

        (a) Molecule   (b) Atom   (c) Both (a) and (b)   (d) None of these

4.   Which of these is not a factor of soil erosion?   '

        (a) Overgrazing   (b) Deforestation   (c) Afforestation   (d) Floods

5.   The number 12 has _____ factors.

        (a) 4   (b) 6   (c) 8   (d) 10

6.   Which of the following is a multiple of 4, 6 and 12?

        (a) 6   (b) 4   (c) 12   (d) 18

7.   Which of the following pairs is an example of adjacent angles in the given figure?

        (a) $\angle AOC$ and $\angle AOB$ (b) $\angle COB$ and $\angle AOB$

        (c) $\angle AOC$ and $\angle AOD$ (d) $\angle AOC$ and $\angle COD$

8.   The sum of largest 4 digit number and smallest 4 digit number is

        (a) 119868   (b) 10999   (c) 76891   (d) 10911

9.   Which of the following is the main organ of the circulatory system?

(a)

(b)

(c)

(d)

10.   It looks like a bear but is not. It spends almost 17 hours a day sleeping while hanging upside down on a tree branch. It lives for about 40 years and in that time moves around only eight trees. The animal referred to in the above paragraph is

(a) Monkey   (b) Sloth   (c) Bat   (d) Gibbon

LEVEL-II (Comprehension Segment)
(2 Question Physics, 2 Chemistry, 3 Maths, 1 Bio and 2 Mental Aptitude)

Read and answer the following questions :-

The wheel and axle is a wheel connected to a rigid pole.

1.   A rod attached to the centre of a wheel is called :
(a) A magnet   (b) A wedge   (c) A top   (d) An axle

Read and answer the following questions :-

Solar system consists of planets, their satellites & other heavenly objects moving around the Sun.

2.   The solar family consists of :
(a) The Sun and the eight planets
(b) The Sun, the planets and their satellites
(c) The Sun, the planets and their satellites and other objects like asteroids, comets, meteors, etc.
(d) Only the Sun

Read the paragraph and answer the following questions :-

Marble :

It is formed from limestone, a sedimentary rock. Marble is made up of calcium carbonate. It is one of the most widely used stones for buildings, statues, pillars and artefacts. The Taj Mahal in Agra and Lincoln Memorial in Washington D.C. are made up of marbles.
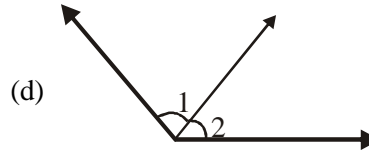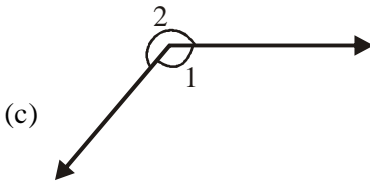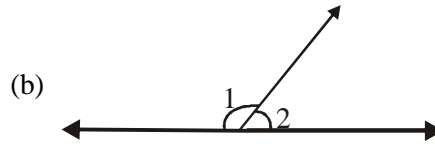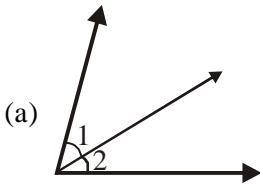
Slate :

It is also formed from another sedimentary rock-shale. It exists in layers and is used for making writing boards, roof tiles and floor tiles.

Gneiss :

It is formed by the metamorphosis of granite, which is an igneous rock. It is grey or pink in colour and is used for flooring, ornamental stones and as a building material.

3.   Marble is made up of which mineral?
(a) Calcium chloride   (b) Magnesium chloride   (c) Calcium carbonate   (d) None of these
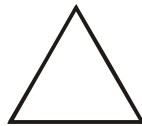
4. From shale which metamorphic rock is made?
   (a) Slate   (b) Marble   (c) Gneiss   (d) None of these

5. If a pair of adjacent angles have their non-common arms as opposite rays, then the pair of angles is said to from a linear pair. Find in the given figures, $\angle 1$ and $\angle 2$ form a linear pair in which case?

(a)

(b)

(c)

(d)

6. If $5 + a = 9$, then $a = 4$ and if $6 + a = 8$, then $a = 2$. Using this concept; solve this question.

   If $57982 + 67054 = 125a36$, then find the value of 'a' is :

   (a) 0   (b) 1   (c) 2   (d) 3

7. If sum of any two angles is 90°, then they are called complementary angles. If sum of any two angles is 180°, then they are called supplementary angles. Using the above concept solve this question. The complement of supplement of 150° is

   (a) 30°   (b) 20°   (c) 60°   (d) 145°

8. Choose the odd one out from

   (1)   (2)   (3)   (4)

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

9. Find the missing term

   Good : Better : : Bad : ?

   (a) Worst   (b) Worse   (c) Best   (d) Authentic

10. Which of the following is a warm blooded animal?

(a)

(b)

(c)

(d)

LEVEL-III (Read, Understand and Apply)
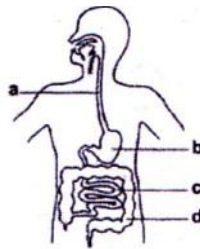
1. All other stars except that star appear to move from east to west due to movement of earth around sun.

   The star used to find direction is

   (a) Alpha Centuari   (b) Pole star   (c) Akash   (d) Krithika

2. Which set of substances are not used in making fibres?
   (a) Silk, chemicals   (b) Yak hair, camel hair   (c) Husk, bones   (d) Flax, wool

3. Unitary method is used to find the cost of one object by dividing the given cost of given objects by given objects. Using this method solve the given question :
   The cost of 3 pencils is ₹ 15 and the cost of 7 pens is ₹ 42. The cost of 2 pencils and 3 pens is
   (a) ₹ 14   (b) ₹ 42   (c) ₹ 28   (d) ₹ 40

4. 1 million = 1000000 and 1 lakh = 100000, using this information find how many lakhs are there in 1 million?
   (a) 1   (b) 10   (c) 100   (d) 1000

5. A is married to B. B is a lady who has a son C. C is married to D. D's father is E. Who is the father-in-law of D?
   (a) A   (b) B   (c) C   (d) E

6. Find the missing term 80 that relation between first two numbers is same as the relation between last two numbers 64 : 8 : : 729 : ?
   (a) 81   (b) 27   (c) 23   (d) 33

7. In Vedic Maths, 99×97 can be multiplied as

   $\quad\quad 99 - 1 \quad\quad\quad\quad (100 - 99 = 1)$
   $\underline{\times \quad 97 - 3} \quad\quad\quad (100 - 97 = 3)$
   $\underline{99 + 97 = 1\,9\,6/\,1 \times 3 = 03}$
   $\therefore \quad 99 \times 97 = 9603$

   Similarly 98×99 can be done as

   $\quad\quad 98 - a$
   $\underline{\quad\quad 99 - 1}$
   $\quad 19\,7 / 02$
   Ans. $98 \times 99 = 9702$
   The value of 'a' is
   (a) 0   (b) 1   (c) 2   (d) 3

8. Use the figure and select the correct option from the codes given below :

(a)	a. Windipe	(b)	a. Oesophagus
	b. Gullet		b. Stomach
	c. Gullet		c. Large intestine
	d. Large intestine		d. Small intestine
(c)	a. Gullet	(d)	a. Oesophagus
	b. Liver		b. Stomach
	c. Large intestine		c. Small intestine
	d. Small intestine		d. Large intestine

9. Which is the largest desert on Earth?

10. Complete the sentence with the correct homophones.

    A strong _____ pulled at our ankles as we waded through the water.

    (a) Currant   (b) Current