



# Kāsiga School

## Sample Question Paper

English

Hindi

Math

Gen. Science

Social Studies

For admission to class 9

Time: 3 Hrs

Total: 250 marks

### English

#### **Q 1. Read the following passage and answer the questions that follow:**

1. When I learned that my 71 year old mother was playing scrabble against herself, I knew I had to do something. “Who’s playing?” I asked one day when I saw a half – finished game on the table. “My right hand versus my left.” “Excuse me?” I said. “Well your father doesn’t play and I want to keep my mind sharp.” An admirable pursuit but I questioned whether my mother’s solitary version of Scrabble would achieve that goal. My husband suggested we give her a computer to play against. I wasn’t sure my mother was ready for a cyber-Scrabble. It had taken 15 years to persuade her to buy a microwave. Nevertheless, we packed our old PC, complete with Scrabble and word processing programmes and delivered it to my parents’ home. Thus, began my mother’s adventure in the worlds of computers.
2. It also marked the beginning of an unusual teaching assignment for me. I’ve taught children and adults of all ages but never thought I would be teaching my mother to do anything. Despite the look of horror on her face when she first saw our gift, my mother was eager to get started. She sat mesmerized as the screen lit up and the various icons presented themselves. Slowly but surely, my mother caught on, making notes in a little spiral book. I wondered how she’d fare without me. Thereafter, she only spoke on her game on the computer to me. She even forgot to ask her stock question, “What did you have for supper?” It was no longer on the agenda. Instead she talked about RAM, ROM and the CPU- terms spilled effortlessly from her mouth. My mother had acquired a new mother tongue.
3. My mother isn’t the only one experiencing a personal growth spurt. Thanks to the computer, my father has finally overcome his phone allergy. For as long as I can remember, any time I called, my mother would answer. Then, after a couple of months ago, I heard dad’s gruff voice on the phone. “Why didn’t mum answer?” “She’s on the computer.” My father and I have had more conversations in the last two months than we’ve had in the previous 20 years. After a lifetime of being her child, I was finally the one with knowledge to share with my mum. But even now, I realize that she continues to teach me. I am learning that no matter how old you are a willing spirit is capable of anything.

**I) Answer the following questions:**

**(10)**

1. What do we know about Mother as an individual when she starts playing Scrabble on her own?
2. What do we get to know about the son-in-law from the passage?
3. Mother was against the use of modern technology. Do you agree / disagree? Give reasons
4. Who were the learners in the passage and what did they learn?

**II) Find the synonyms of the following words from the passage:**

**(2)**

1. Fascinated
2. Burst

**Q 2. Arrange the following words and phrases to form meaningful sentences. The first one has been done for you as an example.**

**(2)**

Scorpions/ to / people/like/ where / live/ live

E.g. Scorpions like to live where people live.

1) dark / can / they / or / be found / in / places / kitchens

2) they / and / gardens / cellars/ live/ in

**Q3. Fill in the blanks with the most appropriate answer:**

**(8)**

Then (i) \_\_\_\_\_ morning in Paris (ii) \_\_\_\_\_ 1891, Alfred Nobel opened (iii) \_\_\_\_\_ papers and (iv) \_\_\_\_\_ his utter astonishment read in the headlines (v) \_\_\_\_\_ news of (vi) \_\_\_\_\_ own death (vii) \_\_\_\_\_ the bitter comments of the entire French Press in regard of his life's work. One paper called (viii) \_\_\_\_\_ the "evil genius".

- |        |           |          |            |          |
|--------|-----------|----------|------------|----------|
| (i)    | (a) a     | (b) any  | (c) one    | (d) many |
| (ii)   | (a) at    | (b) in   | (c) during | (d) on   |
| (iii)  | (a) any   | (b) some | (c) the    | (d) that |
| (iv)   | (a) in    | (b) of   | (c) to     | (d) at   |
| (v)    | (a) a     | (b) the  | (c) an     | (d) in   |
| (vi)   | (a) his   | (b) the  | (c) one    | (d) him  |
| (vii)  | (a) which | (b) what | (c) that   | (d) whom |
| (viii) | (a) him   | (b) were | (c) is     | (d) was  |

**Q4. Complete the dialogue by choosing the correct option:** (4)

Interviewer: When did you graduate and in what subjects?

Suresh: I graduated in 1994, Sir. My subjects were Economics, Accountancy, Mathematics and Personnel Management. Interviewer: Oh!, (a) \_\_\_\_\_ since then?

Suresh: No Sir, started working in 1997, after I'd finished my MBA.

Interviewer: Why do you wish to leave your present job?

Suresh: (b) I wish to improve my prospects and your firm has a good reputation and is progressive.

Interviewer: (c) \_\_\_\_\_ transferred from one place to another?

Suresh: Yes, I know but since this is a multinational firm; I suppose that it is quite fine.

Interviewer: (d) \_\_\_\_\_ apart from English and Hindi?

Suresh: I am fluent in French.

Interviewer: Thank you. Good bye.

- |  |                                       |
|--|---------------------------------------|
| (a) (i) Are you working                      | (ii) Have you worked                  |
| (iii) Have you been working                  | (iv) Had you been working             |
| (b) (i) I will quit if                       | (ii) I have to quit because           |
| (iii) I shall be quitting it unless          | (iv) I am quitting it because         |
| (c) (i) You should be aware that you will be | (ii) Are you aware that you will be   |
| (iii) Have you been aware that you will be   | (iv) Were you aware that you can be   |
| (d) (i) will you speak any other language    | (ii) can you speak any other language |
| (iii) Are you speaking any other language    | (iv) Don't you speak all languages    |

**Q 5. Write four sentences in the passive voice using the prompts and directions given in the brackets.** (4)

- 1) Juice (Present Passive)
- 2) Steal ( Present Perfect Passive)
- 3) Letter (Future Passive)
- 4) Score (Past Passive)

**Q 6. Write a story on the basis of the following opening clues:** (12)

You have won a sports championship. The press is conducting your interview.

**Q 7. Write a notice on the basis of the information given below:** (8)

You are David/ Preety, President of the Interact Club of your school. You wish to organize a snack bar on the Sports day of your school. The proceeds of the sale will go to charity. Write a notice calling for a meeting with the students of class X to discuss the same.

## Hindi

1. निम्नलिखित अनुच्छेद को ध्यानपूर्वक पढ़कर उसके नीचे लिखे प्रश्नों के उत्तर अपने शब्दों

में लिखिए :-

(10)

काशी के सेठ गंगादास एक दिन गंगा में स्नान कर रहे थे कि तभी एक व्यक्ति नदी में कूदा और डुबकियाँ खाने लगा। सेठजी तेजी से तैरते हुए उस व्यक्ति पास पहुँचे और किसी तरह खींच कर उसे किनारे ले आए। वह उनका मुनीम नंदलाल था। उन्होंने पूछा, 'आप को किसने गंगा में फेंका?' नंदलाल बोला, 'किसी ने नहीं, मैं तो आत्महत्या करना चाहता था। 'सेठजी ने इसका कारण पूछा तो उसने कहा, 'मैंने आप के पाँच हजार रुपये चुरा कर सट्टे में लगाए और हार गया। मैंने सोचा कि आप मुझे जेल भिजवा देंगे इसलिए बदनामी के डर से मैंने मर जाना ही ठीक समझा।' कुछ देर तक सोचने के बाद सेठजी ने कहा, 'तुम्हारा अपराध माफ किया जा सकता है लेकिन एक शर्त है कि आज से कभी किसी प्रकार का सट्टा नहीं लगाओगे।' नंदलाल ने वचन दिया कि वह अब ऐसे काम नहीं करेगा। सेठ ने कहा, 'जाओ माफ किया। पाँच हजार रुपये मेरे नाम घरेलू खर्च में डाल देना।' मुनीम भौंचक्का रह गया। सेठजी ने कहा, 'तुमने चोरी तो की है लेकिन स्वभाव से तुम चोर नहीं हो। तुमने एक भूल की है, चोरी नहीं। जो आदमी अपनी एक भूल के लिए मरने तक की बात सोच ले, वह कभी चोर हो नहीं सकता।

प्रश्न—(i) सच्चे भक्त से तात्पर्य क्या है?

उत्तर.....  
.....

प्रश्न—(ii) मुनीम आत्महत्या क्यों करना चाहता था?

उत्तर.....  
.....

प्रश्न—(iii) सेठजी को मालूम था कि मुनीम चोर है लेकिन फिर उन्होंने उसे छोड़ दिया क्योंकि?

उत्तर.....  
.....

प्रश्न—(iv) सेठजी ने किसे और कहाँ से बचाया?

उत्तर.....  
.....

प्रश्न—(ii) गद्यांश का उचित शीर्षक क्या हो सकता है ?

उत्तर.....

2.स्वरचित कविता पाठ प्रतियोगिता में प्रथम स्थान प्राप्त करने के लिए अपने मित्र को एक बधाई-पत्र लिखिए।

(7)

.....  
.....  
.....

3. 'वृक्ष: हमारे मित्र' विषय पर एक अनुच्छेद लिखिए। (150शब्द)

(7)

- वृक्ष प्रकृति का वरदान
- धरती का परिधान
- महत्व एवं उपयोगिता
- दुष्परिणाम

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4. उचित विराम-चिह्नों का प्रयोग करते हुए वाक्य को पुनः लिखिए।

(5)

क) दिव्या अर्चना एवं प्रिया बहने हैं

ख) गोदान मुंशी प्रेमचंद का प्रसिद्ध उपन्यास है

ग) वाह कितनी अच्छी किताब है।

घ) क्या आपको अपने देश की संस्कृति पर गर्व नहीं

ड.) रूको मत जाओ।

5. निम्नलिखित वाक्यों में से क्रियाविशेषण पद को चुनकर लिखिए।

(5)

क) मंदिर के सामने ही मेरा घर है।

ख) वह गाड़ी के पीछे छिप गया।

ग) कमरे के भीतर बिल्ली बैठी है।

घ) तुम अभी मेरे साथ चलो।

ड.) मैं प्रतिदिन व्यायाम करती हूँ।

6. निम्नलिखित वाक्यों को शुद्ध करके वाक्यों को पुनः लिखिए :- (4)

- क) माता जी खाना बना लिए हैं। .....
- ख) वह जा रहा लड़का मेरा भाई है। .....
- ग) उफ कितनी अच्छी मिठाई है। .....
- घ) तुम इधरीच बैठो मैं आता हूँ। .....

7. उचित मुहावरे द्वारा वाक्य को पूर्ण कीजिए :- (4)

उदाहरण: रोहण अपने माता-पिता की आँखों का तारा है।

- क) अमेरिकी सेना के आगे लादेन ने ..... दिए।
- ख) परीक्षा में प्रथम आने के लिए रजिया ने..... दिया।
- ग) दुकान में गरमागरम जलेबियाँ देखकर मेरे मुँह में.....।
- घ) माँ, जल्दी से खाना दो मेरे..... रहे है।

8. वाच्य पहचानिए और लिखिए :- (3)

उदाहरण: मैं भाग नहीं सकती। ..... कर्तृवाच्य .....

- क) चिड़िया से उड़ा नहीं जा रहा। .....
- ख) पुलिस द्वारा अपराधी पकड़ा गया। .....
- ग) प्रधानमंत्री ने राष्ट्रध्वज फहराया। .....

9. रेखांकित पदों के स्त्रीलिंग रूपों द्वारा रिक्त स्थानों की पूर्ति करें :- (2)

उदाहरण: श्रीमान आप अपनी ..... श्रीमती ..... के साथ अवश्य आइएगा।

- क) इस सभा में अनेक विद्वान और ..... उपस्थित थे।
- ख) आज सर्वश्रेष्ठ अभिनेता एवं ..... को पुरस्कृत किया गया।



10. निर्देशानुसार उत्तर दीजिए :-

(2)

क) पर्यायवाची लिखिए

उदाहरण: जल –सलिल ,नीर।

- आकाश .....
- पुष्प .....

ख) रेखांकित पदों के लिए एक शब्द द्वारा वाक्य को पूरा कीजिए

(1)

उदाहरण: ईश्वर कभी नहीं मरते हैं।

ईश्वर अमर हैं।

- नभ में उड़ने वाले पक्षियों की पंक्तियों से मेघमय आकाश शोभायमान था।
-

## HISTORY/CIVICS

### Q1. Multiple choice –

(7)

- i. A \_\_\_\_\_ was set up to make the Constitution for India.
  - a. Drafting committee b. constituent assembly c. temporary government
  - d. interim assembly.
- ii. General Dyer gave the order to fire at unarmed protesters in \_\_\_\_\_.
  - a. Gujarat b. Jallianwala Bagh c. Champaran d. Ahmedabad
- iii. Economic liberation policies in India were formulated by \_\_\_\_\_.
  - a. Jawaharlal Nehru b. Chandrashekhar c. Narasimha Rao d. Manmohan Singh
- iv. Dalhousie came to India as governor in \_\_\_\_\_.
  - a. 1890 b. 1870 c. 1848 d. 1867
- v. Social justice targets the \_\_\_\_\_ people of the society.
  - a. Wealthy b. powerful c. marginalized d. healthy
- vi. At least \_\_\_\_\_ of India's population is engaged in agricultural sector.
  - a. 50% b. 80% c. 65% d. 70%
- vii. Disputes in the villages prior to the coming of the Europeans were settled by the \_\_\_\_\_.
  - a. Zamindar b. panchayat c. revenue collector d. taluqdar

### Q2. Fill in the blanks-

(8)

- i. The term of Lok Sabha is \_\_\_\_\_ months.
- ii. Directive principles unlike fundamental rights are \_\_\_\_\_ in scope.
- iii. \_\_\_\_\_ was one of the first women reformers of India.
- iv. \_\_\_\_\_ was a famous Indian dancer influenced by western ballet.
- v. The moderates and extremists split in 1907 in the session at \_\_\_\_\_.
- vi. The Indian National Army was set up by \_\_\_\_\_.
- vii. \_\_\_\_\_ were introduced to control black marketing.
- viii. Caste system was quite \_\_\_\_\_ at the initial stage.

### Q3. WRITE SHORT ANSWERS-

(10)

- i. What is meant by fundamental duties?
- ii. What were the difference of opinion between the Orientalists and the Anglicists?
- iii. Why do we celebrate Republic Day?
- iv. Explain the meaning of financial emergency.

# GEOGRAPHY

**Q1. Choose the correct answer:** (5)

- a. Equatorial evergreen forests are found in \_\_\_\_\_.  
i. Temperate region      ii. Arctic region      iii. Equatorial region  
iv. Tropical region
- b. \_\_\_\_\_ is a natural calamity that mostly disrupt life in coastal regions.  
i. Cyclones      ii. Storm      iii. Landslide      iv. Drought
- c. World's highest gravity dam is \_\_\_\_\_.  
i. BhakraNangal      ii. Damodar Valley      iii. Tehri      iv. Hirakud
- d. \_\_\_\_\_ is known as golden fibre.  
i. Flax      ii. Cotton      iii. Maize      iv. Jute
- e. Oceans are home to a great variety of \_\_\_\_\_ life.  
i. Marine      ii. Land      iii. Arial      iv. Marsupials

**Q2. Fill in the blanks:** (5)

- i. The most important cause of drought is scarcity of \_\_\_\_\_.
- ii. Forests help in moderating temperature and cause \_\_\_\_\_.
- iii. Human beings add \_\_\_\_\_ to the natural resources.
- iv. \_\_\_\_\_ is the movement of people out of a country.
- v. \_\_\_\_\_ process converts raw materials into finished products.

**Q3. State TRUE or FALSE for the following statements:** (5)

- a. More than half of the Indian population is directly or indirectly engaged in agriculture.
- b. Shifting agriculture is practiced in densely populated regions.
- c. Chemical industries are the major source of pollution of water bodies.
- d. Dams are walls built across the river.
- e. Alluvial soils are found near river banks.

**Q4. Draw a well labeled diagram of Water cycle.** (4)

**Q5. Answer the following questions:** (6)

- i. What do you understand by the term migration?
- ii. What are the causes of earthquake?
- iii. Why does human beings are regarded as an important resource for a country?

# MATHEMATICS

1 Look at these numbers.

5

6

7

8

9

10

Using **only the numbers above**, write down

(a) a prime number,

..... [1]

(b) a square number,

..... [1]

(c) a factor of 55,

..... [1]

(d)  $\sqrt{36}$ ,

..... [1]

(e) a cube number.

..... [1]

- 2 (a) Juan drives 177 kilometres in three hours.

Work out his speed in km/h.

..... km/h [1]

- (b) Paula buys 5 litres of milk for \$8.50.

How much does 2 litres of milk cost?

\$ ..... [2]

- (c) Karlos needs five litres of paint.  
A one litre tin of paint costs \$1.45.  
A five litre tin costs \$6.00.

How much does Karlos save when he buys a five litre tin of paint?

\$ ..... [2]

3 A box contains 20 computer discs.

(a)  $\frac{2}{5}$  of the discs are used.

(i) Write  $\frac{2}{5}$  as a decimal.

..... [1]

(ii) Write  $\frac{2}{5}$  as a percentage.

..... % [1]

(iii) Work out how many discs are used.

..... [1]

(b) 30% of the discs are damaged.

Write this as a fraction in its simplest form.

..... [2]

4 A school team plays nine football matches.

The list shows the number of goals scored in each match.

1      0      5      8      1      5      0      5      2

(a) Write down the range of goals scored.

..... [1]

(b) Write down the modal number of goals scored.

..... [1]

(c) Work out the median number of goals scored.

..... [1]

(d) Work out the mean number of goals scored.

..... [2]

5 The table shows hourly rates of pay in a factory.

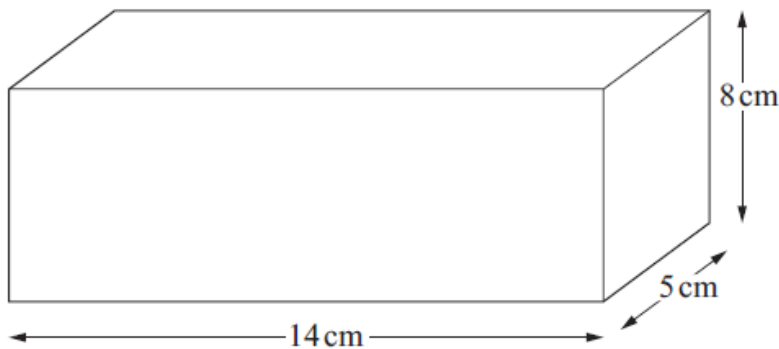
| Day rate        | Night rate      |
|-----------------|-----------------|
| \$7.20 per hour | \$8.80 per hour |

Sanjit works for 6 hours during the day on Monday and for 5 hours on Tuesday night.

Calculate how much money Sanjit earns altogether.

\$ ..... [2]

6 A cuboid has dimensions 8 cm, 5 cm and 14 cm.



NOT TO SCALE

Find the volume of the cuboid.

..... cm<sup>3</sup> [1]



7 Simplify

(a)  $r^6 \times r^3$ ,

..... [1]

(b)  $g^6 \div g^3$ ,

..... [1]

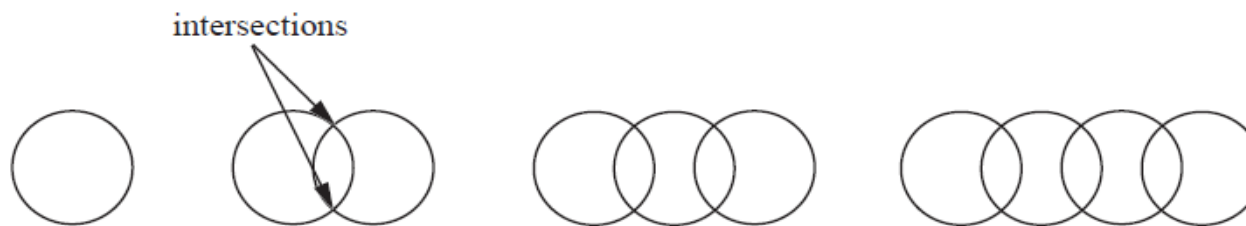
(c)  $(h^6)^3$ ,

..... [1]

(d)  $\sqrt{16c^6}$ .

..... [2]

8 Look at this sequence of patterns made by overlapping circles.



|                                 |   |   |   |   |   |
|---------------------------------|---|---|---|---|---|
| Number of circles ( $c$ )       | 1 | 2 | 3 | 4 | 5 |
| Number of intersections ( $n$ ) | 0 | 2 | 4 | 6 |   |

(a) (i) Complete the table. [1]

(ii) How many circles are there for a pattern with 12 intersections?

..... [1]

(iii) Underline the formula which describes this sequence.

$n = c - 1$        $n = 2c - 2$        $n = 3c - 5$        $n = 4c - 6$  [1]

(b) A different sequence uses the formula  $m = 3d - 2$ .

Use this formula to work out the value of

(i)  $m$  when  $d = 5$ ,

..... [1]

(ii)  $d$  when  $m = 43$ .

..... [1]

9 (a) Remove the brackets and simplify

(i)  $3(4x + 5)$ ,

..... [1]

(ii)  $12 - 2(3y - 2)$ .

..... [2]

(b) Factorise

(i)  $3x^2 - 15$ ,

..... [1]

(ii)  $4ab^2 + 6ab$ .

..... [2]

- 10 The table shows some time differences.  
It is not complete.

| City         | Hours difference from London |
|--------------|------------------------------|
| Los Angeles  | -10                          |
| Mexico City  | -6                           |
| Buenos Aires |                              |
| London       | 0                            |
| Johannesburg | +2                           |
| Riyadh       |                              |
| Wellington   | +12                          |

- (a) Write down the time difference between

- (i) Los Angeles and Johannesburg,

..... hours [1]

- (ii) Johannesburg and Wellington,

..... hours [1]

- (iii) Los Angeles and Mexico City.

..... hours [1]

- (b) Malik flies from Los Angeles to Riyadh.

The time difference is 13 hours.

How many hours ahead of London is Riyadh?

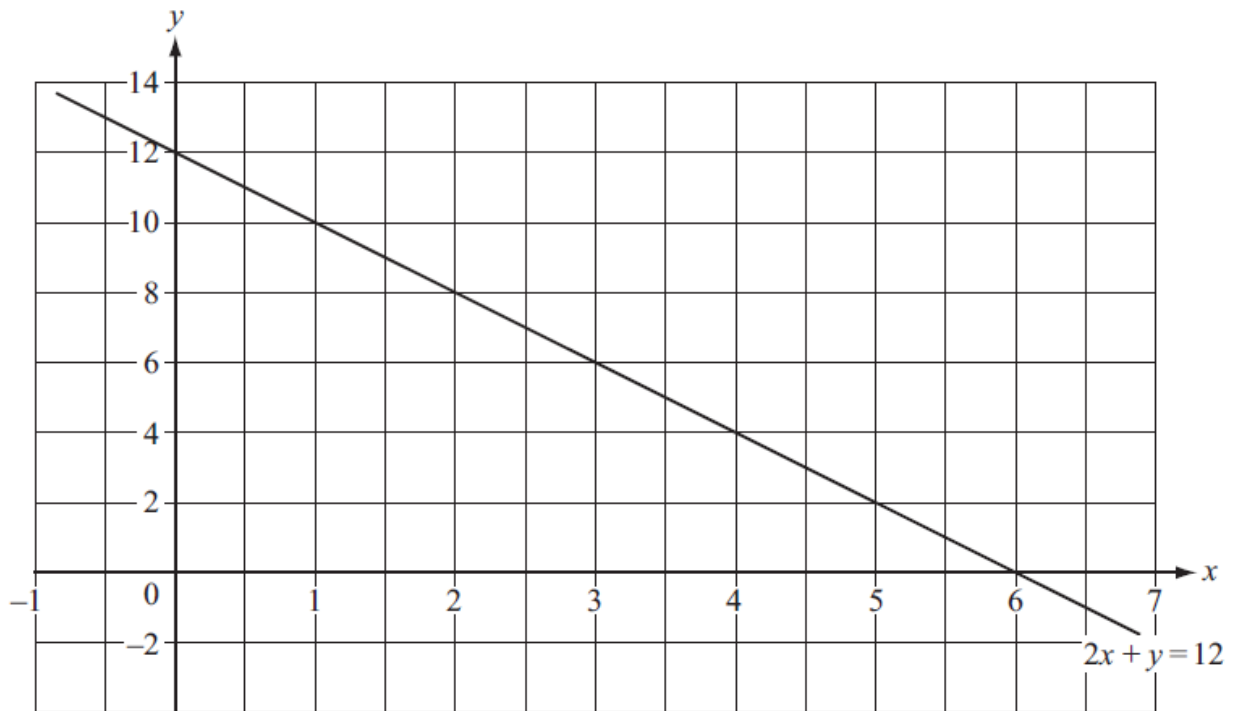
..... [1]

- (c) Ellis flies from Johannesburg to Buenos Aires. The time difference is 5 hours.

How many hours is Buenos Aires behind London?

..... [1]

11 The grid shows the straight line with equation  $2x + y = 12$



- (a) A different equation is  $y = 2x + 2$   
Complete the table of values for  $y = 2x + 2$

|     |   |   |   |   |
|-----|---|---|---|---|
| $x$ | 0 | 2 | 4 | 6 |
| $y$ | 2 |   |   |   |

[1]

- (b) Draw the line  $y = 2x + 2$  on the grid.

[1]

- (c) Write down the solution to the simultaneous equations.

$$\begin{aligned} 2x + y &= 12 \\ y &= 2x + 2 \end{aligned}$$

$x =$  .....

$y =$  ..... [1]

12 Look at the following equation.

$$45.6 \div 1.2 = 38$$

Use this information to **write down** the answers to the following.

(a)  $456 \div 12 =$  ..... [1]

(b)  $38 \times 1.2 =$  ..... [1]

(c)  $3.8 \times 1.2 =$  ..... [1]

# SCIENCE

## CHEMISTRY (17 marks)

### Q1. Fill in the blanks

(5)

1. The presence of air and \_\_\_\_\_ are necessary for iron to rust.
2. The process of conversion of wood into coal is called \_\_\_\_\_.
3. Good fuels have low ignition temperature and \_\_\_\_\_ calorific value.
4. \_\_\_\_\_ is the variety of coal with maximum carbon content.
5. A substance that burns in air or oxygen to produce heat and light is called \_\_\_\_\_.

### Q2. Multiple Choice Questions:

#### 1. Coal mainly contains

- a) Carbon                      b) carbon and hydrogen                      c) carbon, nitrogen and hydrogen  
d) carbon, oxygen and hydrogen

#### 2. A non-metal which is a good conductor of electricity?

- a) Bromine                      b) Graphite                      c) Carbon                      d) Copper

#### 3. A soft metal.

- a) Sodium                      b) Mercury                      c) Iron                      d) Calcium

#### 4. Which poisonous gas is formed as a result of incomplete combustion?

- a) Carbon monoxide                      b) coal gas                      c) carbon dioxide                      d) nitrogen oxide

#### 5. Process to separate different fractions of petroleum.

- a) Fractional distillation                      b) Evaporation                      c) Distillation                      d) Chromatography

### Q3. Define the following:

(2)

1. Combustion

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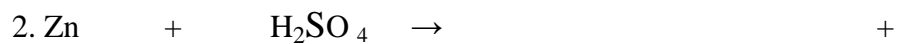
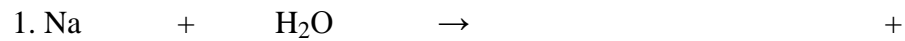
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2. Ignition temperature

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**Q4. Complete the following reactions: (2)**



**Q5. Answer the following: (3)**

1. Why do we wrap a blanket around a person whose clothes have caught fire?

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2. What are the conditions necessary for the rusting of Iron?

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**BIOLOGY (17 marks)**

**Q1. Choose the correct answer and put a tick in front of it- (3)**

1. The function of blood is transport of-

- a. Oxygen      b. Carbon di Oxide      c. Nutrients  
d. All of the above

2. Transfer of pollen grain from one flower to another is called-

- a. Fertilization      b. Seed Dispersal      c. Pollination      d. Translocation



3. The function of alveoli is-

- a. Respiration                      b. Gaseous Exchange                      c. Excretion                      d. Digestion

**Q2. Match items in column A with those of Column B and write the matched items in Column X. The first one is done for you- (5)**

| Column A                                 | Column X                                     | Column B                                  |
|--|--|---|
| 1.Cell                                   | Cell- structural and functional unit of life | a. Stem                                   |
| 2.Onion                                  |  | b. Symbiosis                              |
| 3.Lichen                                 |  | c. Cow, Goat, Giraffe                     |
| 4. CO, SO <sub>2</sub> , NO <sub>2</sub> |  | d. Energy                                 |
| 5. Herbivore                             |  | e. Acid Rain                              |
| 6. Respiration                           |  | f. Structural and functional unit of life |

**Q3 Answer the following in the space provided- (6)**

a. What is the function of nucleus in a cell? Name any cell in your body that does not have a nucleus.

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b. All animals and plants reproduce. How does this help living organisms?

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c. What is excretion? Why is it important for organisms to excrete?

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**Q4. Why is it important to keep the water bodies safe from sewage, polythene and chemicals? (3)**

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**PHYSICS (16)**

**Q1. Multiple choice questions (5)**

- a. CGS unit of pressure is
  - (i) Newton
  - (ii)  $N/m^2$
  - (iii)  $Dyne/cm^2$
  - (iv) Kg/Newton
- b. A triangular piece of glass that breaks up white light into spectrum is
  - (i) Plane glass
  - (ii) Mirror
  - (iii) Convex lens
  - (iv) Prism

- c. Which of the following sound frequencies cannot be heard by a human ear?
- 10 Hz
  - 100Hz
  - 10,000Hz
  - 40,000Hz
- d. Angle of incidence is equal to the angle of reflection
- Always
  - Never
  - Sometimes
  - Under special condition
- e. In which of the following cases of motion, the distance moved and the magnitude of the displacement are
- If a car is moving on straight road
  - If the car is moving on circular road
  - If the pendulum is moving to and fro
  - If the planet is moving around the sun

**Q2. Fill in the blanks (5)**

- Light is refracted \_\_\_\_\_ times when it passes through a prism.
- Pressure depends on \_\_\_\_\_ over which the force is spread.
- Magnet pulling iron pins is called \_\_\_\_\_ force.
- Echoes are caused by the \_\_\_\_\_ of sound.
- The object which shines in the light of other objects are called \_\_\_\_\_.

**Q3. Friction is necessary “evil”, comment. (3)**

**Q4. Write the missing terms in these energy transformation diagrams. (4)**

