



Summer Valley School, Dehradun

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Class VIII /Assignment 1

5 April 2020

ENGLISH LANGUAGE:

Assignment 1- Words Often Confused

- 1 (a) altar (b) alter
- 2 (a) access (b) excess
- 3 (a) cost (b) caste
- 4 (a) credible (b) credulous
- 5 (a) council (b) counsel
- 6 (a) deferred (b) differ
- 7 (a) dessert (b) desert
- 8 (a) eminent (b) imminent
- 9 (a) hoarding (b) horde
- 10 (a) judicious (b) judicial

Assignment 2- Determiners

- 1 a few
- 2 little
- 3 the little
- 4 the little
- 5 few
- 6 a little
- 7 little
- 8 a few
- 9 little
- 10 few
- 11 a little
- 12 the little
- 13 a little



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COMPUTER:

Chapter – 2 (Spreadsheet – Functions and Charts)

1. Define MS – Excel.

Ans. MS – Excel comes with MS office suite and is the most popular spreadsheet software. A spreadsheet is basically an electronic graph sheet divided into horizontal and vertical lines called rows and columns. An electronic spreadsheet does calculations automatically. It has many inbuilt functions for doing calculations.

2. Differentiate between –

- a. Cell and Active cell
- b. Row and column

Ans. A) Cell – Intersection of rows and columns is called a cell.

Active cell – The dark border cell showing the blinking pointer inside to enter data is called an active cell.

B) Row - Rows are the horizontal lines in a worksheet marked with numbers as 1,2,3 and so on. There are 1048576 rows in a sheet.

Column – Columns are the vertical lines in a worksheet marked with A B, C and so on. There are 16384 columns in a worksheet.

3. Define range of cells.

Ans. A group of cells that is formed by dragging the mouse cursor taking a shape of a rectangular box is called a range of cells. A range of cell is specified by cell address of first cell and cell address of last cell.

4. How will you rename a worksheet?

Ans. Steps to rename a worksheet are –

1. Double click on the sheet number on the sheet tab
2. Type new name and press enter.

5. How will you delete a worksheet?

Ans. Steps to delete a worksheet are –

1. Right click on the sheet in a sheet tab which is to be deleted
2. Select delete option from the context menu to delete it.



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PHYSICS:

Ans 1 Work is said to be done if the force applied on a body moves it.

Ans 2 Energy is the capacity of doing work.

Ans 3 The energy possessed by a body due to its state of rest or state of motion is called mechanical energy.

Its two types are potential energy and kinetic energy.

Ans 4 The energy possessed by a body due to its state of rest or position is called potential energy

Example 1 A stretched bow has potential energy.

Example 2 Water stored in a dam.

Ans 5 The energy possessed by a body due to its state of motion is called Kinetic energy.

Example 1 a fast moving stone has kinetic energy

Example 2 a bullet fired from a gun has kinetic energy

Ans 6 The stone rolling down at any instant downhill has both kinetic energy as well as potential energy.

Ans 7 Potential Energy: 1)it is the energy possessed by a body due to its state of rest or position while energy possessed by a body due to its state of motion is called Kinetic energy.
2) Potential energy change only in the form of kinetic energy while kinetic energy can change in any form of energy

Ans 8 Potential Energy depends on following two factors 1) mass of the body 2) height of the body above the ground.

Ans 9 Kinetic energy depends on following two factors 1 mass of the body 2 velocity of the body

Ans 10 Yes. Stone lying at the top of a hill has potential energy.

Ans 11 The body with mass 20 kg has greater potential energy.

Ans 12 The kinetic energy of the cyclist increases. It becomes 4 times.

Ans 13 Potential Energy.

Ans 14 Electric motor .

it converts electrical energy into mechanical energy

Ans 15 Chemical energy to electrical energy.

Ans 16 The rate of doing work is called power.

Ans 17 Work: 1) work is measured as product of force and distance moved by body in direction of force

2) It does not depend on time

Power: 1) rate of doing work is called power

2) It depends on time.

Ans 18 power depends on work done and time

Ans 19 (1)1000 watt

(2) 1 hp = 746 watt

Ans 20 (1) since height gained by both girls is same therefore work done is same for both the girls therefore

$W_a/W_b=1:1$

(2) Power for a girl a/power for b girl= $15/20=3:4$



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CHEMISTRY:

Ans 1- symbol is a short form/ abbreviated name of an element.

Symbol of calcium is taken as first two letter of its name whereas symbol of copper Cu is taken from its Latin name Cuprum.

Ans 2- valency is the number of hydrogen atoms which can combine with one atom of the element or radical forming a compound.

Valency of oxygen = 2

Nitrogen = 3

Magnesium combine with oxygen forming MgO. As the valency of oxygen is 2 hence valency of Mg is also 2.

Ans 3 - certain elements exhibit more than one valency showing variable valency.

Remaining part of answer r the last four lines of page 48.

Ans 5 - Cu = +1, +2

Ag = +1, +2

Hg = +1, +2

Fe = +2, +3

Sn = +2, +4

Pb = +2, +4

Ans 7 - copy last six lines of page 49.

Ans8 -

1) KCl

2) NaBr

3) KNO₃

4) Ca(OH)₂

5) Ca(HCO₃)₂

6) NaHSO₄

7) K₂SO₄

8) Zn(OH)₂

9) KMnO₄

10) K₂Cr₂O₇

11) Al(OH)₃

12) Mg₃N₂

13) Na₂ZnO₂

14) CuO

15) Cu₂S

16) FeCl₃

17) Fe(OH)₂

18) Fe₂S₃

19) Fe₂O₃

Ans 12

1) $2\text{Ca} + \text{O}_2 \rightarrow 2\text{CaO}$

2) $\text{Ca} + 2\text{H}_2\text{O} \rightarrow \text{Ca(OH)}_2 + \text{H}_2$

3) $\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2$

4) $\text{PbSO}_4 + 2\text{NH}_4\text{OH} \rightarrow (\text{NH}_4)_2\text{SO}_4 + \text{Pb(OH)}_2$

5) $\text{Cu(OH)}_2 + 2\text{HNO}_3 \rightarrow \text{Cu(NO}_3)_2 + 2\text{H}_2\text{O}$

6) $\text{Pb(NO}_3)_2 + 2\text{NaCl} \rightarrow \text{PbCl}_2 + 2\text{NaNO}_3$

Ans 13

1) $4\text{P} + 5\text{O}_2 \rightarrow 2\text{P}_2\text{O}_5$

2) $\text{Na}_2\text{O} + \text{H}_2\text{O} \rightarrow 2\text{NaOH}$

3) $2\text{K} + 2\text{H}_2\text{O} \rightarrow 2\text{KOH} + \text{H}_2$

4) $3\text{Fe} + 4\text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + 4\text{H}_2$

5) $\text{CaO} + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2\text{O}$

6) $2\text{Fe} + 3\text{Cl}_2 \rightarrow 2\text{FeCl}_3$

7) $2\text{Al} + 3\text{H}_2\text{O} \rightarrow \text{Al}_2\text{O}_3 + 3\text{H}_2$

8) $\text{Fe}_2\text{O}_3 + 3\text{H}_2 \rightarrow 2\text{Fe} + 3\text{H}_2\text{O}$

9) $\text{C} + 2\text{H}_2\text{SO}_4 \rightarrow \text{CO}_2 + 2\text{SO}_2 + 2\text{H}_2\text{O}$

10) $2\text{Pb}_3\text{O}_4 \rightarrow 6\text{PbO} + \text{O}_2$

11) $4\text{Al} + 3\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3$

12) $2\text{NO} + \text{O}_2 \rightarrow 2\text{NO}_2$

13) $2\text{ZnS} + 3\text{O}_2 \rightarrow 2\text{ZnO} + 2\text{SO}_2$

14) $\text{Pb}_3\text{O}_4 + 8\text{HCl} \rightarrow 3\text{PbCl}_2 + 4\text{H}_2\text{O} + \text{Cl}_2$



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CHEMISTRY:

- 15) $\text{ZnO} + 2\text{NaOH} \rightarrow \text{Na}_2\text{ZnO}_2 + \text{H}_2\text{O}$
- 16) $\text{H}_2\text{S} + \text{Cl}_2 \rightarrow 2\text{HCl} + \text{S}$
- 17) $\text{FeCl}_3 + 3\text{NaOH} \rightarrow 3\text{NaCl} + \text{Fe}(\text{OH})_3$
- 18) $\text{Fe}_2\text{O}_3 + 3\text{CO} \rightarrow 2\text{Fe} + 3\text{CO}_2$
- 19) $2\text{KHCO}_3 \rightarrow \text{K}_2\text{CO}_3 + \text{H}_2\text{O} + \text{CO}_2$
- 20) $3\text{CuO} + 2\text{NH}_3 \rightarrow 3\text{Cu} + 3\text{H}_2\text{O} + \text{N}_2$

Objective type Answers page 59

Ans1

- 1) AgCl
- 2) Atom
- 3) Nucleus, proton
- 4) Lead
- 5) O, Br
- 6) +2, -1, -2

Ans2

- 1) b
- 2) a
- 3) f
- 4) j
- 5) C
- 6) l
- 7) e
- 8) d
- 9) h
- 10) g

BIOLOGY:

CHAP-2 REPRODUCTION IN PLANTS TOPIC- FLOWER

{page no -20 & 21 of book concise biology 8}

- 1 The flower is the reproductive part of a plant.
- 2 Sepals ,petals, stamens and carpels
- 3 Write functions of the following- (a) sepals-protect inner parts of flower in bud stage.
(b) Petals -They attract insects for pollination. (c) Stalk -It attaches the flower to the shoot. (d) Thalamus-The floral parts arise from it.
- 4 Anther. It has two parts-anther and filament.
- 5 Carpel or pistil. It has three parts-stigma, style and ovary.
- 6 Pollens.
- 7 Ovules.
- 8 (a) Ovules (b) ovary.
- 9 Refer to fig.2.8 on page 21.
- 10 Fill in the blanks
Calyx.
Corolla.
Androecium.
Gynoecium.



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GEOGRAPHY:

FILL IN THE BLANKS:

1. China
2. Death Rate
3. Life Expectancy
4. Higher
5. Population Pyramid

Ex B.

1. Asia
2. All of these
3. Fewer tax payers
4. all
5. constant population



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MATHS:

Solution of Maths worksheet Class - VIII

Q2 Cubes of natural numbers 1 - 20

$1^3 = 1$	$6^3 = 216$	$11^3 = 1331$	$16^3 = 4096$
$2^3 = 8$	$7^3 = 343$	$12^3 = 1728$	$17^3 = 4913$
$3^3 = 27$	$8^3 = 512$	$13^3 = 2197$	$18^3 = 5832$
$4^3 = 64$	$9^3 = 729$	$14^3 = 2744$	$19^3 = 6859$
$5^3 = 125$	$10^3 = 1000$	$15^3 = 3375$	$20^3 = 8000$

Q3

$$\begin{array}{r} 2 \overline{) 12544} \\ \underline{2 6272} \\ 2 3136 \\ \underline{2 1568} \\ 2 704 \\ \underline{2 392} \\ 2 196 \\ \underline{2 98} \\ 7 49 \\ \underline{7 7} \\ 1 \end{array}$$

$$\sqrt{12544} = 2 \times 2 \times 2 \times 2 \times 7$$

$$= 112$$

Q4

$$\begin{array}{r} 123 \\ \overline{) 15129} \\ \underline{1} \\ 22 \\ \underline{+ 2} \\ 243 \\ \underline{1} \\ 51 \\ \underline{\times 51} \\ 44 \\ \underline{729} \\ 729 \\ \underline{ 0} \\ 0 \end{array}$$

$$\sqrt{15129} = 123$$

Q5 (a)

$$\begin{array}{r} 3 \overline{) 9261} \\ \underline{3 3087} \\ 3 1029 \\ \underline{7 343} \\ 7 49 \\ \underline{7 7} \\ 1 \end{array}$$

$$\sqrt[3]{9261} = 3 \times 7$$

$$= 21$$

(b)

$$\begin{array}{r} 2 \overline{) 5832} \\ \underline{2 2916} \\ 2 1458 \\ \underline{3 729} \\ 3 243 \\ \underline{3 81} \\ 3 27 \\ \underline{3 9} \\ 3 3 \\ \underline{3 3} \\ 1 \end{array}$$

$$\sqrt[3]{5832} = 2 \times 3 \times 3$$

$$= 18$$