



OPEN MINDS - A BIRLA SCHOOL, KANKARBAGH

BRAHAMPUR, JAGANPURA, PS-RAMKRISHNA NAGAR,
KANKARBAGH, PATNA

MONTH ASSIGNMENT 2016

GRADE - 8

SCIENCE

Biology

1. Fill in the blanks-
 - i. Total number of cell in a body of a unicellular organism is _____ .
 - ii. Muscle cells have _____ shape.
 - iii. The longest cell in human body is _____ .
 - iv. The colour of the chlorophyll is _____ .
 - v. Cell was discovered by _____ .
 - vi. Organs are made up of _____ .
 - vii. Synthesis of proteins take place in _____ .
 - viii. The suicidal bags of a cell are _____ .
 - ix. All the components of a cell including the cell membrane is called _____ .
 - x. Cell wall is present in _____ .
2. Identify the following with respect to cell-
 - i. Kitchen of the cell-
 - ii. Unit of inheritance present on chromosomes-
 - iii. Green plastids-
 - iv. It separates the cell from surrounding medium-
 - v. Brain of the cell-
3. Answer the following questions-
 - i. Draw flowchart to show how cells form an organism.
 - ii. Write the shape of these cells and how this shape helps it to perform its function?
 - a. Muscle cell
 - b. RBC
 - c. Nerve cell
 - iii. Mitochondria is also known as the power house of the cell. Why?
 - iv. Why lysosome is called the suicidal bag of cell.
 - v. Write four differences between plant and animal cells.
 - vi. Describe the function of nucleus.
 - vii. Why plasma membrane is called selectively permeable membrane.
 - viii. Name and explain the different types of plastids present in plant cell.
 - ix. Draw a neat and well labelled diagram of an animal cell.
 - x. Write any three differences between Eukaryotic and Prokaryotic cell.



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Chemistry

1. Very Short Answer Type Question:
 - i) Name the fuel obtained from cattle dung.
 - ii) What is the unit of calorific value of a fuel?
 - iii) Which gas causes global warming?
 - iv) Which gas is produced during incomplete combustion of fuels?
 - v) Name the type of combustion that occurs in a forest fire.
2. Fill in the blanks:
 - i) A fuel has very ignition temperature is dangerous to store.
 - ii) A good fuel should burn at arate.
 - iii) The outermost zone of the candle flame is called zone.
 - iv) A better fuel leaves residue after combustion.
 - v) Substances that burn easily are called substances.
3. Match the items in column A with the items in column B

Column A	Column B
i) Combustible	a) Kindling temperature
ii) Non-combustible	b) Zone of combustion
iii) Ignition temperature	c) Fire extinguisher
iv) Flame	d) Petrol
v) Water	e) Sand
4. Answer the following questions as directed.
 - i) What is global warming?
 - ii) List the principles to extinguish a fire?
 - iii) How is water helpful in extinguishing fire?
 - iv) Write five characteristics of an ideal fuel.
 - v) What are the conditions necessary for combustion?
 - vi) Explain the various zones of a candle flame by drawing a neat diagram?
 - vii) What causes acid rain?
 - viii) How does complete combustion differ from incomplete combustion?
 - ix) Differentiate between luminous and non-luminous zone of a candle flame?
 - x) How does forest fire occurs ?



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Physics

OBJECTIVE QUESTIONS

(A) MCQ

- To increase the speed of swing the child's father must :-
 - pull the swing
 - kick the swing
 - push the swing
 - lift the swing
- If two or more forces act on a body in the same direction :-
 - net force decreases
 - net force increases
 - net force remains the same
 - pressure decreases
- The correct relation between force, pressure and area is:-
 - pressure = area/force
 - area = pressure/force
 - force = pressure/area
 - pressure = force/area
- When we press the bulb of a dropper with its nozzle kept in water, air in the dropper is seen to escape in the form of bubbles. Once we release the pressure on the bulb, water gets filled in the dropper. The rise of water in the dropper is due to
 - pressure of water
 - gravity of the earth
 - shape of rubber bulb
 - atmospheric pressure
- Pressure exerted by a liquid on the wall of vessel is :-
 - more towards bottom
 - equal in all directions
 - more on the sides
 - both a & c
- Pressure in liquids increases with :-
 - depth of liquid
 - density of solute
 - nature of vessel
 - all the above

(B) FILL IN THE BLANKS

- An archer stretches her bow while taking aim at the target. She then releases the arrow, which begins to move towards the target. Based on this information fill up the gaps in the following statements using the following terms:
muscular, contact, non-contact, gravity, friction, shape, attraction
- To stretch the bow, the archer applies a force that causes a change in its _____.
- The force applied by the archer to stretch the bow is an example of _____ force.
- The type of force responsible for a change in the state of motion of the arrow is an example of a _____ force.
- While the arrow moves towards its target, the forces acting on it are due to _____ and that due to _____ of air.

6. Straps of school bags are made wider to _____ pressure.
7. Needles of syringes are made sharp to _____ pressure.
8. Liquid pressure _____ with depth.
9. At same depth, liquid pressure is _____.
10. Forces applied in the opposite directions _____.

SUBJECTIVE TYPE QUESTIONS

1. In the following situations identify the agent exerting the force and the object on which it acts. State the effect of the force in each case.
 - (a) Squeezing a piece of lemon between the fingers to extract its juice.
 - (b) Taking out paste from a toothpaste tube.
 - (c) A load suspended from a spring while its other end is on a hook fixed to a wall.
 - (d) An athlete making a high jump to clear the bar at a certain height.
2. A blacksmith hammers a hot piece of iron while making a tool. How does the force due to hammering affect the piece of iron?
3. An inflated balloon was pressed against a wall after it has been rubbed with a piece of synthetic cloth. It was found that the balloon sticks to the wall. What force might be responsible for the attraction between the balloon and the wall?
4. Name the forces acting on a plastic bucket containing water held above ground level in your hand. Discuss why the forces acting on the bucket do not bring a change in its state of motion.
5. A rocket has been fired upwards to launch a satellite in its orbit. Name the two forces acting on the rocket immediately after leaving the launching pad.
6. What is necessary to apply force?
7. What happens when more than one force works on an object and that too in opposite directions?
8. To slow down an object in which direction force should be applied?
9. Show that liquid exerts pressure at the bottom and walls of the container in which it is enclosed.
10. Define atmospheric pressure. How it is measured? Find the weight of air column on an object of area 13 cm X 16 cm.(if $g = 10\text{m/s}^2$)

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GRADE - 8

SOCIAL STUDIES

HISTORY

- CHAPTER: 1. HOW, WHEN, WHERE? and
2. FROM TRADE TO TERRITORY.

FILL IN THE BLANKS

1. James Rennel was asked by _____ to produce map of Hindustan.
2. The _____ period of the west is associated with the modernity- science, reasons democracy, liberty and equality.
3. National Archives of India came in the year of _____.
4. _____ was the capital of Mysore.
5. The Britishers could not acquire Punjab due to the presence of _____ in Punjab.
6. The dynasties of chiefs of Maratha confederacy under the Peshwa were _____, _____, _____.
7. English officials those who earn wealth in India went back to Britain and had lavish life were called _____.
8. The two evils practices according to James Mill that dominated the Indian social life before the British came in India were _____, _____.
9. The first English factory was set up near _____ river in the year of _____.
10. _____ the English Governor general committed suicide due to charge of corruption in 1774.

Long answer question

1. Make a list of governor general and viceroys came in India
2. "Battle of Plassey was a turning point in the Indian history?" Explain why? Mention any two reasons for the defeat of Sirajudaullah.
3. Draw a date line showing division of Indian history into three period of ancient history, medieval history and modern history with approximate date.
4. The British introduced a uniform judicial system and the Rule of Law in India. Our judicial system is based on those principles. What is your suggestion to improve the efficiency of the Indian Judicial system in imparting justice a bit early or quickly? (can refer pg 21 and 22)

5. Who was defeated in the battle of Buxar ? What were the consequences of the war? (Refer pg 14, 3rd para)
6. Describe the various policies of annexation of Indian state by the Britishers with the example of few states. (page 15, 16 and 19 of text book)

SOCIAL AND POLITICAL LIFE

CHAPTER: 1. OUR CONSTITUTION

2. SECULARISM

Long answer question:

1. Identify the idea behind these two images. According to you which policy is suitable for the peace in a country? Why? (Can take help from the images given on page 19 and 27 of text book)



(1)



(2)

2. Explain the features of Indian Constitution. (refer Page 11 to 13 of text book)
3. "Some basic right has been granted to the citizen by our Constitution." What they are called? Describe each right granted to the citizens. (Page 14 of text book)
4. Explain the term federalism with example. (Page 11, 3rd Para of the text book)
5. "Our constitution makers faced a lot of challenges after independence" Explain the statement. (Refer Page 11 para 1 text book)

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GRADE - 8

SOCIAL STUDIES

Geography

Chapter 1 Resources

2 Mineral and Power Resource

A. Objective questions:

1. All _____ have some utility and value.
2. Resources that give us pleasure have _____ value.
3. _____ are a type of biotic resource.
4. _____ resources cannot be generated by us.
5. Resources that have not yet been identified or cannot be used at present are called _____ resources.
6. Mineral fuels are found in _____ rocks.
7. _____ is one of the leading producers of silver.
8. Aluminum obtained from its ore _____.
9. _____ in Karnataka has deposits of gold in India.
10. _____ minerals contain metal in raw form.
11. Minerals that lie near the surface are simply dug out by the process known as _____.
12. Electricity from coal is called _____.
13. _____ is referred to as Buried sunshine.
14. _____ and its derivatives are called Black Gold as they are very valuable.
15. Resources obtained from the earth is called _____.

B. Answer the following questions:

1. Name three common minerals used by you every day.
2. What is an ore? Where are the ores of metallic minerals generally located?
3. Why are the resources distributed unequally over the earth?
4. What is sustainable development? Why is it required? Mention any three ways in which resources can be sustained.
5. Distinguish between renewable and nonrenewable resources. Give two examples of each. Discuss whether renewable resources can ever be exhausted.
6. What do you understand by conservation of resources?
7. With the help of an example, distinguish between actual and potential resources.
8. What is meant by recycling? Name a resource that can be recycled.
9. What are natural resources? Give two examples.
10. On political map of India show all the states and union territories with their capitals



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GRADE - 8

English Language Arts (ELA)

PREPARE ONE ENGLISH AND ONE HINDI POEM FOR ELOCUTION CONTEST THAT WILL BE HELD POST SUMMER VACATION

Language

A. Put in a, an, many, much, a few, or a little where necessary.

1. He wants to write it in ink, give him _____ pen.
2. He bought _____ orange and _____ banana.
3. They waited for _____ bus for half _____ hour.
4. _____ table is made of wood.
5. During the hot season, most trees have only _____ leaves.
6. Too _____ exercise is bad for the body.
7. The cat caught _____ rats. Now there are no rats here.
8. There is still _____ tea in the pot.
9. He didn't bring his money so he borrowed _____ dollars from me.

B. DO AS DIRECTED:-

1. The tea was so hot that I could not drink it. (Change into a simple sentence)
2. He is too arrogant to listen to advice. (Change in a complex sentence)
3. He worked hard that he might pass the examination. (Change into a simple sentence)
4. He is too stupid to handle such a difficult situation. (Remove too)
5. John is the tallest boy in the class. (Use the comparative form of the adjective)
6. I could not do it even if I tried. (Change into a simple sentence)
7. No sooner did I hear the gunshot than I rushed to the spot. (Rewrite using as soon as.)
8. Hardly had I solved one problem when another cropped up. (Rewrite using no sooner ...than)
9. Only trained graduates need to apply. (Use none instead of only)
10. Work hard or you will fail. (Change in a complex sentence)

C. WRITE THE FIGURE OF SPEECH FOR THE FOLLOWING:

1. He has a heart of stone.
2. He ran like a hare down the street.
3. The sea that bares her bosom to the moon.
4. A reeling road, rambles round the shrine.
5. Cluck !Cluck! Said the duck.

D. Creative writing (all questions to be attempted)

Write a paragraph for the following:-

- | | |
|---------------------------------|------------------|
| a. The use and abuse of leisure | b. Advertisement |
| c. The internet | d. Drought |

E. Write an essay for the following:-

- Some wonders of modern science
- The dream I should like to have
- Importance of women in our society

F. a. Write an application to the Principal asking for a leave of one week.

- Write a letter to the editor making him aware about insanitary condition in your locality.
- Write a letter to the bank manager about cancellation of your cheque. Give necessary details.
- Write a letter to your friend inviting him for your brother's wedding.
- Write a letter to your uncle thanking him for the new book he has presented.
- Write a letter to your grandfather describing him how you spent your summer vacations.

LITERATURE

A. Answer the following questions:

- From where did the three men decide to start the trip?
- Who never wept?
- What was Montmorency's breed?
- Who always felt thirsty?
- Who gave the idea of going up the river?
- Who had the habit of taking the burden on himself and the putting it on the backs of other people?
- To whom did the writer compare Harris?
- Which was the only disease the author did not suffer?
- Who all were sitting in the room?
- What was George's suggestion regarding taking a tent?
- On what grounds did the writer criticise the sea-trip?
- Who opposed going to the boat trip and why?
- Who thought that he was a hospital in himself?
- The first list made was rejected. Why?
- What happened when the writer visited the doctor?
- According to the three men what was needed to restore mental equilibrium?
- After examining the writer, what did the doctor write in his prescription?
- Write the character sketch of Montmorency?
- Who presumed that he was giddy?

B. Write the meaning for the following words:-

- | | |
|-------------|--------------|
| a) enigma- | b) ad lib- |
| c) follies- | d) pondered- |
| e) malady- | |



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GRADE - 8

MATHEMATICS

- Which of the following are rational numbers?
 - $\frac{-3}{4}$
 - $\frac{-3}{0}$
 - $\frac{-1}{4}$
- Which of the following are positive rational numbers?
 - $\frac{3}{4}$
 - $\frac{-6}{5}$
 - $\frac{-8}{-5}$
- Which of the following are negative rational numbers?
 - $\frac{-3}{4}$
 - $\frac{-7}{-8}$
 - $\frac{30}{15}$
- Express each of the following rational number in standard form.
 - $\frac{30}{14}$
 - $\frac{32}{48}$
 - $\frac{36}{54}$
- Represent each of the rational number on number line.
 - $\frac{3}{4}$
 - $\frac{8}{5}$
 - $\frac{-7}{3}$
- Express $\frac{3}{4}$ as a rational number with denominator 2.
 - 48
 - 16
 - 20
- Express $\frac{2}{5}$ as a rational number with numerator 10.
 - 10
 - 16
 - 18
- Which of the two rational numbers is greater than in the given pair?
 - $\frac{3}{4}$ or 0
 - $\frac{-3}{4}$ or $\frac{23}{14}$
 - $\frac{30}{14}$ or 0
- Which of the two rational numbers is greater than in the given pair?
 - $\frac{2}{5}$ or $\frac{3}{4}$
 - $\frac{7}{8}$ or $\frac{6}{5}$
 - $\frac{-5}{2}$ or $\frac{-3}{4}$
- Fill in the blanks with the correct symbol out of $>$, $<$, and $=$.
 - $\frac{-3}{7}$ $\frac{6}{13}$
 - $\frac{2}{5}$ $\frac{7}{6}$
 - $\frac{-3}{8}$ or $\frac{-2}{5}$
- Arrange the following rational number in ascending order.
 - $\frac{-4}{9}$, $\frac{5}{7}$, $\frac{7}{18}$
 - $\frac{-3}{4}$, $\frac{5}{-12}$, $\frac{-7}{16}$
- Arrange the following rational number in descending order.
 - -2 , $\frac{-13}{6}$, $\frac{8}{-3}$
 - $\frac{-3}{10}$, $\frac{7}{-15}$, $\frac{-11}{20}$

13. Which of the following statement is true and which is false?
- Every whole number is a rational number.
 - Every integer is a rational number.
 - 0 is a whole number but it is not a rational number.
14. Represent each of the following number on the number line.
- $\frac{3}{5}$
 - $\frac{12}{8}$
 - $2\frac{2}{5}$
15. Represent each of the following number on the number line.
- $-\frac{1}{3}$
 - $-\frac{3}{4}$
 - $-3\frac{1}{7}$
16. Add the following rational numbers:-
- $\frac{-2}{5}$ and $\frac{4}{5}$
 - $\frac{-6}{11}$ and $\frac{-4}{11}$
 - $\frac{-11}{8}$ and $\frac{5}{8}$
17. Add the following rational numbers:-
- $\frac{3}{4}$ and $\frac{-7}{5}$
 - $\frac{5}{8}$ and $\frac{-7}{12}$
 - $\frac{18}{15}$ and $\frac{20}{15}$
18. Find the additive inverse of each of the following:-
- $\frac{1}{5}$
 - $\frac{-9}{7}$
 - $\frac{15}{-4}$
19. Subtract:-
- $\frac{3}{4}$ from $\frac{1}{3}$
 - $\frac{2}{5}$ from $\frac{-4}{15}$
 - $\frac{7}{8}$ from $\frac{5}{24}$
20. Using the rearrangement property find the sum of:-
- $\frac{-3}{5} + \frac{7}{3} + \frac{-11}{5} + \frac{-2}{3}$
 - $\frac{4}{7} + \frac{-8}{9} + \frac{-5}{21} + \frac{1}{3}$
21. The sum of two rational numbers is 5. If one of the numbers is $\frac{-5}{6}$, find the other.
22. The sum of two rational numbers is $\frac{-3}{8}$, if one of the numbers is $\frac{9}{12}$, find the other.
23. What number should be added to $\frac{-5}{6}$ so as to get $\frac{-3}{8}$?
24. What number should be subtracted from $\frac{-2}{3}$ to get $\frac{-1}{6}$?
25. The product of two rational numbers is - 48. If one of the numbers is - 12 find the other.
26. By what rational number should we multiply $\frac{-15}{56}$ to get $\frac{-5}{7}$?
27. By what number should $\frac{-33}{8}$ be divided to get $\frac{-11}{2}$?
28. Divide the sum of $\frac{13}{5}$ and $\frac{-12}{7}$ by the product of $\frac{-31}{7}$ and $\frac{1}{-2}$
29. Divide the sum of $\frac{65}{12}$ and $\frac{8}{3}$ by their difference.



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Information & Communication Technology (ICT)

1. Define Scanner.
2. What is memory? What are its various types?
3. What do you mean by peripheral devices? Name a few peripheral devices.
4. What is Secondary memory? Why is it important to have a Secondary data storage media installed on your computer?
5. What is the purpose served by input devices? Explain briefly any three input devices.
6. How a Light pen and stylus differ from one another?
7. Differentiate between CD - ROM and DVD - ROM.
8. What is the difference between Hard disk drive and Optical disk drive?
9. What is the difference between hardcopy and softcopy ?
10. Write short notes on Modem.
11. Explain Registers.
12. How is GPS considered as an emerging technology? Give reason.
13. What do you mean by HTML? Discuss some of the tags used in HTML.
14. Make a PowerPoint Presentation on Computer Peripherals.
15. Browse internet and explore the usage and advantages of Wireless Technologies.
16. Logon internet and find out information on the different type of storage devices used in a computer. Prepare your project in MS-Word.

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HINDI

1. 'विज्ञान वरदान है या अभिशाप' पर एक निबंध लिखें (व्याकरण उत्तर पुस्तिका में)
2. व्याकरण लतिका, पृष्ठ संख्या 165 के गद्यांश को पढ़कर उससे संबंधित प्रश्नों के उत्तर व्याकरण उत्तर पुस्तिका में लिखें।
3. स्थानांतरण प्रमाण-पत्र के लिए प्रधानाचार्य को प्रार्थना पत्र लिखें। (व्याकरण उत्तर पुस्तिका में)
4. 'ठेले पर हिमालय' तथा 'लाए कौन संदेश नए धन' के कठिन शब्द, शब्दार्थ, लेखक/कवयित्री परिचय तथा प्रश्नोत्तर याद करें।
5. शब्द, पद, पदबंध और समास की परिभाषा, भेद तथा उसकी परिभाषा उदाहरण के साथ व्याकरण उत्तर पुस्तिका में लिखें।

GRADE - 8

SANSKRIT

1. 'वन्दना' पाठ को याद करें।
2. 'वन्दना' पाठ-1, पाठ-2 के शब्दार्थ याद करें।
3. यूनिट-1 के पाठ्यक्रम में जो शब्दरूप और धातुरूप दिए गए हैं, उन्हें लिखकर याद करें।

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