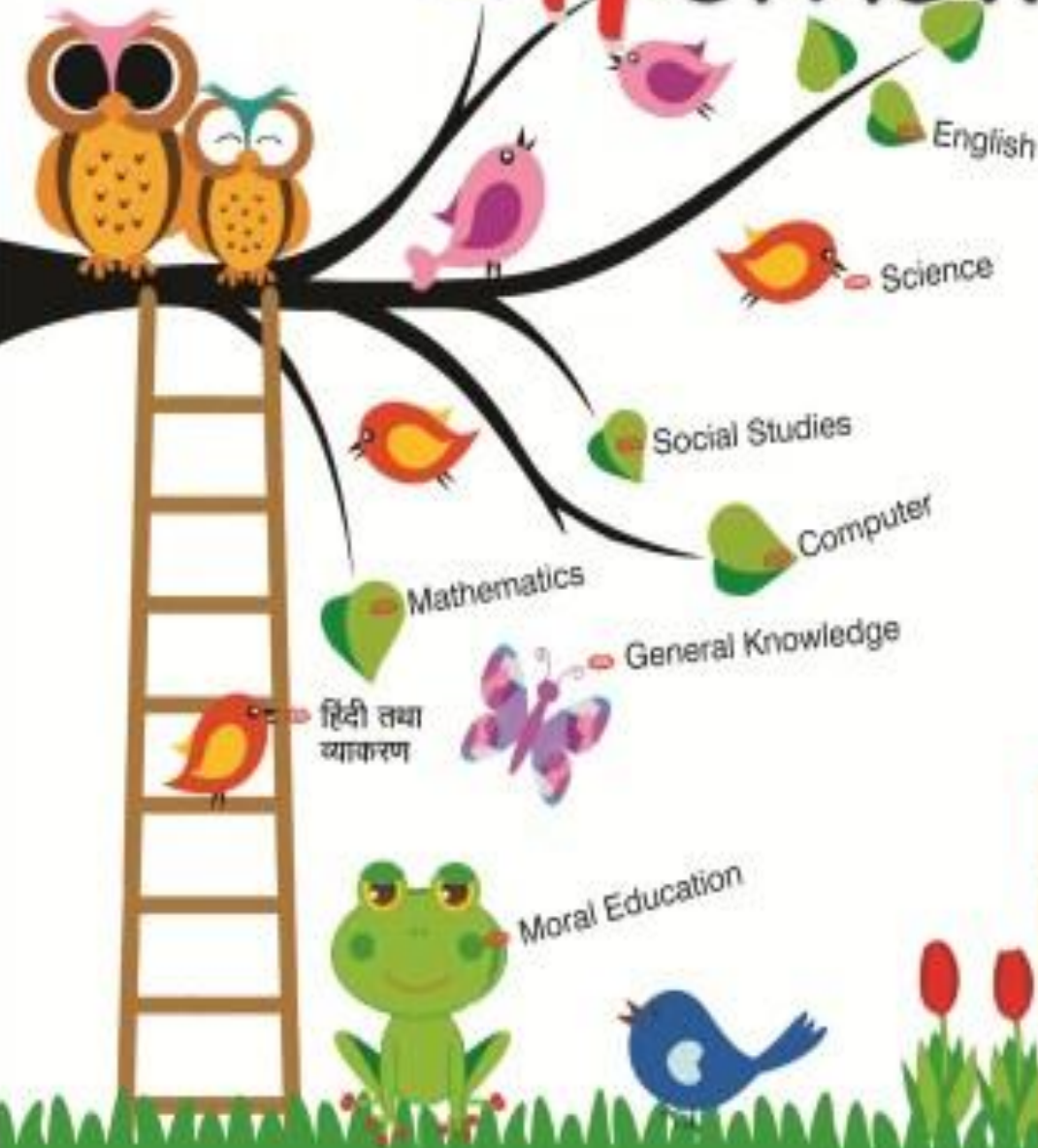


Holidays Homework



B.R.B. MODEL SCHOOL

Holiday Homework

Class – IX

SUB : PHYSICS

1. A body moves in a Circular path of radius 20 cm . If it completes two and half revolution along the Circular path , find distance and displacement of the body.
2. An object travels 14 m in 4 second and then another 16 m in 2 second. What is the average speed of an object?
3. The odometer of a Car reads 2000 km at the Start of a trip and 2400 km at the end of the trip. If the trip took 8 h. Calculate the average speed of the car in km/h and m/s.
4. A bus starting from rest attains a velocity of 60km/h in 60 seconds. find the acceleration of bus in SI units.
5. When will you say a body is in (i) Uniform acceleration (ii)Non – uniform acceleration?
6. Why is the motion of an athlete moving along the circular path with Constant speed considered to be an accelerated motion?
7. Which force is required to change the direction in a circular motion?
8. While plotting a distance – time graph , why we plot time on x –axis?
9. A bus starting from rest moves with a uniform acceleration of 0.1m/sec^2 for 2 min. Find
 - a) The speed required
 - b)The distance travelled
10. Give an example for each.
 - a) An object with a Constant acceleration but with zero velocity.
 - b) An object moving in a certain direction with an acceleration in the \perp direction.

SUB : CHEMISTRY

1. Comparison of Solid, Liquid , Gas.
2. Difference between saturated and unsaturated solution . How will you test whether a given solution is saturated or not?
3. Separation of all types of techniques of matter.
4. How is water purified on a large scale at water works explain with the help of labeled. Diagram. Name the substance which is added to kill germs in the drinking water supply.
5. Draw the process of sublimation.
6. Draw supply drinking water in a city.

SUB : BIOLOGY

1. Prepare a herbarium file of 5 plant with scientific name.
2. Difference between plant and animal cell.
3. Draw the different types of plant tissue.
4. Invention of microscope with diagram.

SUB :S.ST.

1. Which Incident came to be known as Bloody Sunday ? What were its Consequences?
2. Mention any three features of Peninsular Plateau?
3. Explain any three Consequences of Unemployment?
4. Explain the types of tectonic plate movements responsible for the formation of relief feature.
5. How do large farmers utilise surplus farm products to arrange for the capital needed for farming?
6. Distinguish between multiple cropping and modern farming methods.
7. Define Human capital. Mention any for characteristics of an entrepreneur or human capital as a factor of production.
8. How has the location of India contributed to exchange the ideas and commodities? Explain.
9. How did France become a constitutional Monarchy? Explain.
10. Describe five main features of Sarva Shiksha Abhyan.

11. **PROJECT ACTIVITY.**

Locate the Peaks, passes , ranges , Plateaus , hills and dunes hidden in the Puzzle . You may start your search horizontally , vertically or diagonally. On page no. 16 (Geography)

12. Map skills –

On an outline Map of India show the following .

- i) peaks – K2 , Kanchenjunga , Nanga parbat and Anai Mudi.
- ii) Plateaus- Chotanagpur and Malwa.
- iii) Lakes – Chilika , Sambhar , Wular , Pulicat.

SUB : MATHS

1. Find five rational numbers between 1 and 2.
2. Find five rational numbers between $\frac{3}{5}$ and $\frac{4}{5}$.
3. Express each of the following decimals in the form in the $\frac{p}{q}$.
 - i. $1.\overline{27}$
 - ii. $5.\overline{2}$
4. Show how $\sqrt{5}$ can be represented on the number line.
5. Represent $\sqrt{10.5}$ on the number line.
6. Evaluate each of the following.
 - i) $2^{55} \times 2^{60} - 2^{97} \times 2^{18}$
 - ii) $\left(\frac{64}{25}\right)^{-3/2}$
7. Simplify .
 - i) $\sqrt[5]{(32)^{-3}}$
 - ii) $\frac{1}{\sqrt{4-5}}$
 - iii) $(\sqrt{4})^{-7} (\sqrt{2})^{-5}$
8. Assuming that x, y are positive real numbers Simplify each of the following.
 - i) $\sqrt[4]{\sqrt[3]{x^2}}$
 - ii) $(\sqrt{x})^{-2/3} (\sqrt{y^4}) \div (\sqrt{xy^{-1/2}})$
9. Prove that $\frac{16 \times 2^{n+1} - 4 \times 2^n}{16 \times 2^{n+2} - 2 \times 2^n} = \frac{1}{2}$.
10. Rationalising the denominator.
 - i) $\frac{7+3\sqrt{5}}{7-3\sqrt{5}}$
 - ii) $\frac{1}{5+\sqrt{2}}$
11. Factorise each of following expressions.
 - i) a^3+27
 - ii) $(a+3)^3$
 - iii) $(4x+y)^2$
12. ax^3+4x^2+3x-4 and x^3-4x+a leave the same remainder when divided by $(x-3)$. Find the value of a .
13. Factorize. $x^3+6x^2+11x+6$.
14. Factorize x^2+2x-3 .
15. If $x^{51} + 51$ is divided by $x + 1$ the remainder is.

SUB: ENGLISH

✓ Section – A Reading

Type 1 – 2 to 4 (5 to 8)

Type -2 - 2 to 4 (21 to 25)

✓ Section – B Writing

Articles 2 & 3 (39 to 41)

Short story 2 & 3 (65 to 66)

Diary Entry 2 & 3 (54 to 55)

✓ Section – C literature

How I taught my grandmother to read (113 – 117)

A Dog named duke (118-121)

SUB : HINDI

प्र01– निम्नलिखित उपसर्गों के प्रयोग से दो – दो शब्द बनाइये।

क. अति ख. सु ग. अभि घ. प्रति

प्र02–पाठ्यक्रम में दिए गये शब्दालंकार एवं अर्थालंकार के उदाहरण स्पष्टीकरण देते हुए लिखिए।

प्र03– निम्नलिखित गद्यांश को पढ़कर दिए गए प्रश्नों के उत्तर लिखिए।

संकेत . " कम्प्यूटर काम के लिएराइटच्वाइस वेबी

- (क) वर्तमान समय में कम्प्यूटर क्यों खरीदें जाने लगे हैं ?
 (ख) आज दिखावा कहाँ – कहाँ देखने को मिलता है ?
 (ग) बाहरी देशों में अंतिम संस्कार और अनंत विश्राम की क्या व्यवस्था होती जा रही है ?
 (घ) पैसे वालों के अनुकरण में सामान्य जन की क्या दशा होती जा रही है ?
 (ङ) गद्यांश में ऐसा क्यों कहा गया है कि जो अमरीका में हो रहा है , वह भारत में भी होगा?

प्र04– निम्नलिखित प्रश्नों के उत्तर दीजिए।

- (क) 'प्रतिष्ठा की अंधी प्रतिस्पर्धा' तथा ' संस्कृति की नियंत्रक शक्तियों के क्षीण होने ' का भाव स्पष्ट कीजिए।
 (ख) 'लहासा की ओर' पाठके आधार पर भारत एवं तिब्बत की महिलाओं की सामाजिक स्थिति में अन्तर स्पष्ट कीजिए।
 (ग) आजादी प्राप्त करने कि लिए क्या-क्या कष्ट सहने पड़ते हैं ? 'दो बैलों की कथा' के आधार पर लिखिए।
 (घ) कवियत्री ललद्यद के अनुसार 'माझी- और 'उतराई' शब्दों के अर्थ स्पष्ट कीजिए।

प्र05– वर्तमान समय में उपभोक्तावादी संस्कृति हमारे दैनिक जीवन को किस प्रकार प्रभावित कर रही है? अपने विचार लिखिए।

प्र06–आज के समय में वैज्ञानिक प्रगति ने साहित्य जगत को किस प्रकार प्रभावित किया है? अपने शब्दों में लिखिए।

प्र07– अपने क्षेत्र की बिजली कटौती की समस्या पर ध्यान आकर्षित करते हुए समाचार पत्र के संपादक को पत्र लिखिए।

प्र08– आपने ग्रीष्मवकाश में विद्यालय में खेलों में प्रतिभाग किया । एक प्रतिवेदन प्रस्तुत कीजिए।

SUB : FOIT

1. Explain any three limitations and characteristics of a computer.
2. Differentiate between primary and secondary memory.
3. What is CPU? Explain the different parts of CPU.
4. What are input devices? Enlist any ten input devices.
5. What do you mean by memory unit? Explain the types of memory used in computer.
6. Differentiate RAM and ROM.
7. Briefly explain the applications of computer in various fields.
8. Explain the input, process and output cycle for the withdrawal of 2000 from your saving accounts using an ATM card.
9. What do you mean by micro computers? Explain any two types of micro computers, which you commonly find in day to day life.
10. What is Digital convergence? Give an example.
11. List any ten features of smart phone.
12. Briefly explain the application of computer in the field of Criminal identification and law enforcement.
13. What are embedded systems? Give any three examples.
14. List any five processor (chip) manufacturing companies.
15. What is microphone? Describe its usage.
16. Explain about the input device that is used to convert handwritten text into machine readable format.
17. List any ten application software used in computer.
18. What is computer system? Draw the blocked diagram of components of a computer system.
19. Write the full forms of the following:

| | | | | |
|----------|-----------|------------|------------|------------|
| (i) ICT | (ii) BIOS | (iii) WWW | (iv) GPS | (v) BITs |
| (vi) CAD | (vii) CAM | (viii) DDR | (ix) SDRAM | (x) EEPROM |
20. Convert the following:
 - (i) 1024 ZB into PB.
 - (ii) 4096 MB into GB.
 - (iii) 3 TB into Nibbles.
 - (iv) 10 MB into Bits.

✓ **Mandatory Task For All Students During Summer Holidays**

1. Keep an earthen bowl filled with water at suitable location of your house for thirsty birds in summer, so that they can comfortably drink water from it.
2. You may also spread seeds near water bowl for birds.
3. Keep on changing water after every alternate day.
4. Regularly try to capture a photograph of a bird, drinking water from your bowl. Then take printout of best Two pictures & Submit it along with your holiday Homework . Mentioning your name & class behind it.
5. Best selective pictures will be displayed in the School exhibition & Top 3 ranked pictures will be awarded & get Space in school Magazine.

✓ **Guidelines for Holiday Homework**

1. Use copy or additional sheets where ever required.
2. Submit your Homework separately to all concerned subject teachers.
3. Holiday homework would be evaluated out of 10 marks in all subjects.
4. Timely submission , neatness & presentation of homework would be considered separately.
5. Last date of submitting holiday homework is 05/07/2017(Wednesday).

Note: Students can contribute to magazine in English or Hindi in A4 sheet. (Story, Essay, Poem, Drawing, Puzzles)