

KV AFS BAGDOGRA
SUMMER VACATION
HOLIDAY HOMEWORK

Subject: English

1. Name of the book: Beehive Page No. 10 Q.No iii(1-8), & Q.no iv(1-3)
Attempt all the questions.
2. Film review : English subject enrichment activity no. 2- Use minimum 500 words.
3. Brochure : English subject enrichment activity no.3. Attempt a brochure on any of your choice destination using all the important items.

विषय - हिन्दी

- 1) अलंकार की परिभाषा लिखकर उसके भेदों को उदाहरण सहित लिखें ।
 - 2) समास की परिभाषा लिखकर उसके भेदों को उदाहरण सहित लिखिए ।
 - 3) टिकट परीक्षक एवं बेटिकट यात्री के बीच संवाद लिखिए ।
 - 4) आपने अपने आसपास अनेक निरक्षर बच्चों को घूमते देखा । आपने उन्हें साक्षर बनाने हेतु निश्चित योजना बनाई है । अपने पिता को इस अभियान की जानकारी देते हुए पत्र लिखिए ।
 - 5) आपके निकट के अस्पताल में आवश्यक उपकरणों एवं औषधियों के अभाव के कारण रोगियों को बहुत कठिनाइयों का सामना करना पड़ रहा है । इस समस्या की ओर अधिकारियों का ध्यान आकर्षित कराने हेतु किसी समाचार-पत्र के सम्पादक को पत्र लिखिए ।
 - 6) संकेत बिन्दुओं के आधार पर 200 से 250 शब्दों में निबंध लिखिए ।
 - 1) वर्तमान शिक्षा और भविष्य : संकेत बिंदु - प्रस्तावना, शिक्षा और ज्ञान, आधुनिक शिक्षा-प्रणाली और आदर्श , पेटू बनाने तक सीमित करना, उपसंहार ।
 - 2) अच्छे पड़ोसी की आवश्यकता : संकेत बिंदु - पास-पड़ोस का महत्त्व,अच्छे पड़ोसी कैसे बनें ? पड़ोस का महत्त्व, अच्छे पड़ोसी की कमी से उत्पन्न कठिनाइयाँ, पड़ोसी से सद्व्यवहार ।
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Subject: mathematics

1. If $3^{x+1} = 9^{x-2}$, then find the value of 2^{1+x} ?
2. If $4^x = 4^{x-1} = 24$, then find the value of $(2x)^{2x}$?
3. $\sqrt{5^n} = 125$, then find $5^n \sqrt{64}$?
4. If $\sqrt{2^n} = 1024$, then find the value of $3^2 \left(\frac{n}{4} - 4\right)$?
5. If $x = 2 + \sqrt{3}$, then find the value of $x^2 + \frac{1}{x^2} = ?$
6. Prove that $\frac{1}{1+x^{a-b}} + \frac{1}{1+x^{b-a}} = 1$?
7. Find the product of $\left(x - \frac{1}{x}\right) \left(x + \frac{1}{x}\right) \left(x^2 + \frac{1}{x^2}\right) \left(x^4 + \frac{1}{x^4}\right)$?
8. If $2^a \times 3^b \times 7^c = 1176$ then find the value of a, b, c?
9. Factorise $\left(x^2 + \frac{1}{x^2}\right) - 4\left(x + \frac{1}{x}\right) + 6$
10. Express 0.9999..... in the form of $\frac{p}{q}$, where p and q are integer and $q \neq 0$
11. Express $5.\bar{2}$ in the form of $\frac{p}{q}$?
12. Represent $\sqrt{3}$ and $\sqrt{5}$ on number line?
13. Find the value of $x = 2^{x+3} = 4^{x-1}$?
14. Simplify the following:-
$$\frac{3^n \times 9^{n+1}}{3^{n-1} \times 9^{n-1}}$$
15. If $\left(\frac{3}{2}\right)^x \left(\frac{3}{2}\right)^{2x} = \frac{81}{16}$ then find the value of x?
16. Find the value of a and b of, $\frac{\sqrt{3}-1}{\sqrt{3}+1} = a - b\sqrt{3}$
17. Factorise the following :-
 - I. $4x^2 + 9y^2 + 16z^2 + 12xy - 24yz + 16xz$
 - II. $2x^2 + y^2 + (8z^2) - 2\sqrt{2}xy + 4\sqrt{2}yz - 8xz$
18. Find the value of the following using an identities:-
 - I. $(-12)^3 + (7)^3 + (5)^3$
 - II. $7^3 + 3^3 + (-10)^3$
19. Find the value of K, if $x-1$ is a factor of $4x^3 + 3x^2 - 4x + k$?
20. Find the remainder when $x^3 - ax^2 + 6x - a$ is divided by $x-a$?
21. Factorise the following by long division method
 - I. $x^3 - 2x^2 - x + 2$
 - II. $2y^3 + y^2 - 2y - 1$

22. Show that $(x+1)$ is a factor of the polynomial $f(x)=x^3+x^2+x+1$?
23. Evaluate 105×106 using identities?
24. Find the value of $(\sqrt[5]{8})^{\frac{5}{2}} \times (10)^{-\frac{3}{2}}$?
25. if $4 \times 5^x = 500$, then find the value of x^x ?
26. if $27^x = 81^y$ then find the $x:y$
27. simplify $(\frac{4^{m+\frac{1}{4}} \times \sqrt{2.2^m}}{2 \cdot \sqrt{2^{-m}}}) \frac{1}{m}$
28. Factorise $:(a+b)^2 - 5a - 5b + 6$
29. factorise $2(a^2 + \frac{1}{a^2}) - (a - \frac{1}{a}) - 7$
30. if $\frac{a}{b} + \frac{b}{a} = 1$, then find the value of $a^3 + b^3$?

Note: Practise chapter 1 and 2 from NCERT Note Book

Subject : Science

CHAPTER 1

1. What are the characteristics of particles of matter?
2. What is the physical state of water at
 - a) 250°C
 - b) 100°C
 - c) 0°C
3. Explain why –
 - a) why does a desert cooler cool better on a hot dry day
 - b) why water cool in an earthen pot
 - c) what type of clothes should we wear in summer & why?
4. What produces more severe burns a) boiling water (b) steam
5. What is meant by latent heat of vaporisation ?
6. What is dry ice ? How is it formed?
7. What is sublimation? Draw a diagram of sublimation.

CHAPTER 1-THE FUNDAMENTAL UNIT OF LIFE

8. Who discovered cells and how?
9. a) Name two organelles which contain their own genetic materials .
 - b) Why are lysosomes known as suicidal bags.

c) Why mitochondria is called power house of the cell.

10. How prokaryotic cell differ from eukaryotic cell? Give examples of prokaryotic cell.

11. Draw diagram of an animal cell/plant cell and label important parts.

12. a) Write the name of different plant parts in which chloroplast, chromoplast and leucoplast are present.

b) Which type of plastid store starch, oil and proteins?

CHAPTER-3- MOTION

13. Distinguish between speed and velocity

14. What is acceleration ? A bus decreases its speed from 80km/h to 60 km/h in 5s. Find acceleration

15. Prove equation $v=u+at$

$$s=ut+\frac{1}{2}at^2$$

when v =Final velocity

u =Initial velocity

t =Time

a =Acceleration

s =Distance covered

16. Study the speed- time graph of a body given here and answer the following questions

a) What type of motion is represented by OA.

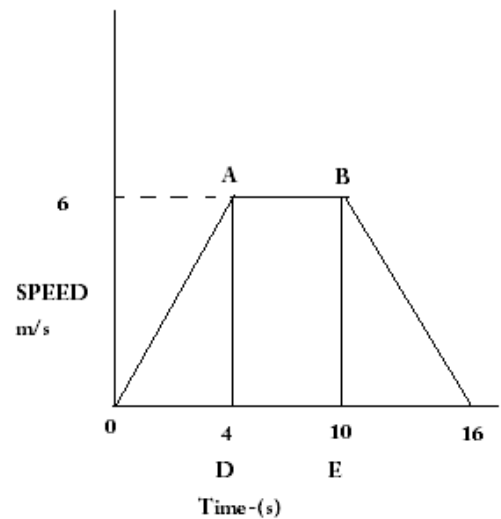
b) What type of motion is represented by AB.

c) What type of motion is represented by BC.

d) Find out the acceleration of the body.

e) Calculate the retardation of the body.

f) Find out the distance travel by the body from A to B.



SUBJECT: SOCIAL SCIENCE

HISTORY

1. What was the declaration of right of man and citizen according to the French constitution of 1791?
2. Who was Napoleon Bonaparte? What reforms did he introduce in France?
3. Describe the main features of Jacobins club in France during the French revolution.
4. Describe any five efforts made by Maximilian Robespiereto bring equality in French society.
5. What role did the philosophers played in the French revolution?
6. What is the legacy of the French revolution? Name the two Indian leaders who responded to the idea of this revolution?
7. On the outline of France locate the following:
 - a) Paris
 - b) Nantes
 - c) Bordeaux
 - d)Marsseilles

GEOGRAPHY

1. Explain the size and geographical extent of India.
2. Explain the major reasons for the two hour time difference in local time between Arunachal Pradesh and Gujarat.
3. Which neighbouring island countries lies to the south east of India? Name the water bodies that separates this island country from India?
4. The central location of India at the head of the Indian oceanis considered of great significance.why?

Civics

1. Define democracy and elaborate any two common features of it?
2. Elections held in Mexico were not free and fair.comment.
3. Why do we prefer democracy thanany other form of government?
4. "Pakistan is not ademocracy in the true sense".comment.

*In subject enrichment file prepare aprojectof natural disaster with handdrawing pictures with related descriptions.