KENDRIYA VIDYALAYA AFS BAGDOGRA

WINTER BREAK ASSIGNMENT FOR CLASS IX

SUBJECT-ENGLISH

1. Article- Riding without helmets , speeding, rash driving and jumping red lights are some common aspects of underage driving.The underage drivers fail to realize that they are putting to risk not only their own but also the life of other road users. Write an article in 120-150 words highlighting the solutions to the menace of underage driving.

2. Diary Entry- Suppose you are the Grandfather of the chapter,"The Adventure of Toto". Finally you sold Toto to the tonga driver at Rs 3.0. You are quite upset after it. Write a diary entry recording your feeling using 120-150 words.

3. Story Writing- Write a story in 150-200 words from the outline given below. Give a suitable title and moral of the story.

(6- year old Amit- back from school saw a baby bird under a tree – unable to fly – worried – nest seen on the tree – 2 little birds – picked the baby bird – placed carefully in the nest – mother bird return just then – song of thanks for......)

SUB- SCIENCE

1. What are isotops? give ex, and write any three uses of isotopes.
2. Write the observation and conclusion of Rutherford scattering experiment.
3. Write the main limitation of Rutherford atomic model.
4.   A. who discovered neutron b. write the main postulates of bohr atomic model ?
5. Write the chemical formula of ,calcium carbonate , baking soda , bleaching powder , aluminium sulphate , potassium nitrate , potassium sulphate.
6. a.convert into moles - 22gm of CO_2 , 20gm of H_2O b. convert into mass- 1. 0.2 moles of oxygen atoms . 2. 0.75 moles of water molecules.
7. Calculate the no of aluminium ions present in 0.051gm of aluminium oxide .(atomic mass of Al=27u)
8. Prove KE=1/2 mvr
9. Calculate the work required to stop car of 1.5 ton moving with a velocity of 60 kmph.
10. How atmosphere act as a bucket ? explain your answer thoroughly.
11. Where ozone layer is present? Write its formula.how it is formed in the atmosphere?list its uses.how CFCs degradate O_3 layer?
12. A. what is biogeochemical cycle ? B. Draw a diagram of nitrogen cycle formed in nature.
13. What is Archimedes principle? The volume of a 500 gm sealed packet is $350cm^3$. will the packet float or sink in the water of than density is 1 gm cm^3? What will be the mass of the water displaced by this packet?
14. What is relative density ? Relative density of silver is 12.5 . The density of water is $10^3 kgm^{-3}$. what is the density of silver in S.I. unit?
15. A ball is thrown vertically upward returns to the thrower after 6 sec. find- A. the velocity with which it was thrown up.B. the max. height it reaches and C. its position after 4 sec.
16. What's SONAR ? Explain the working SONAR .explain the working and the application of a SONAR.
17. A. WHAT IS reverberation? Write its uses . B what is loudness of sound ? what factors does it depends on ? C. Explain how bats use ultrasound to catch a prey.

MATHS HOLIDAY HOMEWORK

ONE MARK QUESTIONS

1. THE SUMOF EITHER PAIROF OPPOSITE ANGLES OF A CYCLIC QUADRILATERAL IS
   (a)180*   (b)360   (c)90   (d)none of these

2. DEFINE CHORD AND SECANT OF A CIRCLE

3. WRITE AND HERON s FORMULA.

4. TOTAL SURFACE AREA OF HEMISPHERE IS?

5. DEFINE MEAN, MODE AND MEDIAN

TWO MARK QUESTIONS

1. PROVE THAT IF CHORDS OF CONGURENT CIRCLES SUBTEND EQUAL ANGLES AT THEIR CENTRES THEN CHRDS ARE EQUAL.
2. THE LINE DRAWN THROUGH THE CENTRE OF A CIRCLE TO BISECT A CHORD IS PERPENDICULAR TO THE CHORD
3. CONSTRUCT THE ANGLES 30, 22.5
4. FIND THE VOLUME OF SPHERE WHOSE VOLUME IS (a)7cm (b)0.63m
5. A COIN IS TOSSED 1000 TIMES WITH 455 HEADS AND 545 TAILS

THREE MARKS QUESTION

1. THE CAPACITY OF A CUBOIDAL TANK IS 50000 L. FIND THE BREADTH OF THE TANK IF THE LENGTH AND DEPTH ARE RESPECTIVELY 2.5m AND 10m
2. IF THE VOLUME OF A RIGHT CIRCULAR CONE OF HEIGHT 9cm IS 48pie cubic centimeter FIND DIAMETER OF Its BASE.
3. FIND THE VOLUME OF A SPHERE WHOSE SURFACE AREA IS 154 square centimeter.
4. PROVE THAT THE ANGLE SUBTENDED BY AN ARC AT THE CENTRE IS DOUBLE THE ANGLE SUBTENDE BY IT ON ANY REMAINING PART OF THE CIRCLE
5. PROVE THAT CYCLICPARALLELOGRAM IS A RECTANGLE

FIVE MARKS QUESTION

1. D , E , F ARE RESPECTIVELY THE MID POINTS OF THE SIDE BC,CD AND AB OF TRIANGLE ABC SHOW THAT (i) BDEF IS A PARALLELOGRAM (ii) ar(DEF)= ¼ ar(ABC) (iii) ar(BDEF)= ½ ar(ABC)
2. PROVE THAT IF A TRIANGLE AND A PARALLELOGRAM ARE ON SAME BASE AND BETWEEN SAME PARALLEL , THEN AREA OF TRIANGLE IS EQUAL TO THE HALF OF THE AREA OF THE PARALLELOGRAM
3. WRITE ATLEAST 15 FORMULAE OF MENSURATION

4. A METAL PIPE IS 7.7 cm LONG. THE INNER DIAMETER OF THE CROSS SECTION IS 4 cm FIND (i) INNER CURVED SURFACE AREA (ii)OUTER CURVED SURFACE AREA (iii) TOTAL SURFACE AREA

5. THE VOLUME OF A RIGHT CIRCULAR CONE IS 9856 cubic centimeter IT THE DIAMETER OF THE BASE IS 28cm. FIND (i) HEIGHT OF CONE (ii)SLANT HEIGHT (iii)CURVED SURFACE AREA (iv) VOLUME

Sub: Computer Application

1. Write a short note on "How IOT is improving the world."
2. Write a short note on "How can we use IOT for development of our country."
3. Discuss the measures to be taken to be "Safe online".

Sub:SST

1. What was the subsistence crisis? Why did it occur in France during the old regime?
2. Name three famous writer and philosophers who influence the French Revolution. What were their ideas?
3. Describe the 'reign of terror' and role played by Robespierre?
4. Describe the socio-economic and political condition in Russia before 1905?
5. What did Tsarist autocracy collapse in 1917?
6. Who were the Bolsheviks?what were the main changes brought about by the Bolsheviks immediately afternthe October revolution?
7. How Nazi party was formed? What promise did Hitler make to the Germany after coming to the power?
8. Why democracy is considered the best form of government?
9. Why do we need election? What makes an election democratic?
10. What are the functions of election commission of India?
11. Describe the election procedure in India?
12. Explain the major power of parliament?
13. Why 82* 30' E is selected as the standard meridian of India?
14. How are northern plain is different form the southern hills?
15. Write the differences
    (a) Peninsular river and Himalayan river
    (b) Tropical ever green and tropical deciduous forest.
16. Which river is known as Dakshin Ganga? Explain the basics feature?
17. What are the major control of climate of a place? Explain them.
18. What is the role of education in human capital formation?
19. Discuss the major reason of poverty in India?
20. What is Buffer stock? Why bufferstock is created by the government?

गृह कार्य(विषय हिंदी)

1. निम्नलिखित उपसर्गों से दो दो नवीन शब्दों का निर्माण करे-
अव,अप,प्र,परा,सम,निर,परि
2. निम्नलिखित प्रत्ययों से दो दो नवीन शब्दों का निर्माण करे-
इक,य,वाला,आवट,ई,नी,आई
3. वाक्य किसे कहते है ? वाक्य के अंग भी लिखिए।
4. रचना के आधार पर वाक्य के भेद लिखिए ?
5. अलंकार किसे कहते है ?
6. "पीपर पात सरिस मन डोला " पंक्ति में कौनसा अलंकार है ? स्पष्ट करें।
7. कहानी में बैलों के माध्यम से कौन कौन से नीति विषयक मूल्य उभरकर आए हैं ?
8. प्रस्तुत यात्रा वृतांत के आधार पर बताइए कि उस समय का तिब्बती समाज कैसा था ?
9. किस घटना ने सालिम अली के जीवन की दिशा को बदल दिया और उन्हें पक्षी प्रेमी बना दिया ?
10. सर टामस 'हे' के मैना पर दया भाव के क्या कारण थे ?
11. पाठ में ' टीले' शब्द का प्रयोग किन संदर्भों को इंगित करने के लिए किया गया होगा ?
12. मोहल्ले में कानून व्यवस्था खराब होने के कारण पुलिस अधिक्षक को शिकायती पत्र लिखें।