THE RAJASTHAN INTERNATIONAL SCHOOL, KOTPUTLI
Holiday Home Work 2017-18
Class 10

Subject: ENGLISH

LITERATURE: (Thin note-book)

The frog and the nightingale:- Page 94 Q10 [a,b,c,d,e] ; Page 95 Q11 [a,b,c,d,e]

Mirror:-Page 98 Q3 [a,b,c,d,e,f,g] ; Page 99,100 Q4[a,b,c,d,e,f,g,h]

BBC Compacta

Module 1 (Reading) page 4, 6,8,10

Module 2 (Articles) page 72,74,76,79

Module 4 (Short stories) page 144 e, 144f, 144g, 144h

Do the following questions. (Thin note-book)

1. Write a letter to your overstressed sister who is preparing for her class10 exams suggesting her to join a laughter club to combat her anxiety. You may take ideas from the clues given below:

Benefits of laughing:
Reduces heart failure
Natural pain killer
Improves breathing
Helps to lose weight
Gives good sleep
Decreases stress
Makes you look young
Boosts relationship

2. Write an article on 'Save Electricity' in about 120 words.

3. Write an article in about 120 words on the topic 'Keep Your City Clean'.

4. Complete the story in 150-200 words and give it a suitable title.

   My lovely pet elephant Ganesha is ten years old now. Ever since my father brought him home, nine years ago.....................

5. Complete the story in 150-200 words and give a suitable title also.

As I was remembering my best friend, I saw a group of people coming towards me. I was surprised.......................

द राजस्थान इंटरनेशनल स्कूल, कोटपूतली

ग्रीष्मावकाश गृहकार्य 2017

कक्षा–10

1. निम्नलिखित शब्दों के अर्थ लिखकर वाक्य प्रयोग कीजिए–

भग्नावशेष, वर्चस्व, विज्ञ, प्राक्कालीन, विक्षिप्त, परित्यक्त, मुमानियत, अपकार, मार्फ़त, जिजीविषा, शिरकत, नैसर्गिक, अवश्यंभावी, कदाचित, ताबूत, कलेवा, मँझोला, संबल।

2. अपने छोटे भाई को जी एस टी (वस्तु सेवा कर) के विषय में विस्तृत जानकारी देते हुए पत्र लिखिए।

3. भारतीय लोकतंत्र में मतदान के महत्त्व को स्पष्ट करते हुए 'इ वी एम की मतदान में भूमिका' नामक विषय के पक्ष–विपक्ष में तर्क दीजिए।

4. आपके गाँव/शहर में पंचायत/नगरपालिका ने क्या–क्या काम करवाए हैं? प्रत्येक कार्य का विवरण देकर उनसे होने वाली सुविधाओं के विषय में भी लिखिए। पंचायत/ नगरपालिका द्वारा किये जाने वाले कार्यों के प्रति हमारी भूमिका क्या हो सकती है?

5. कस्बों, शहरों, महानगरों के चौराहों पर किसी न किसी क्षेत्र के प्रसिद्ध व्यक्ति की मूर्ति लगाने का प्रचलन सा हो गया है–

क. इस तरह की मूर्ति लगाने के क्या उद्देश्य हो सकते है?

ख. आप अपने इलाके के चौराहे पर किस व्यक्ति की मूर्ति स्थापित करवाना चाहेंगे और क्यों?

ग. उस मूर्ति के प्रति आपके व दूसरे लोगों के क्या उत्तरदायित्व होने चाहिए?

6. अपनी दादी, नानी और माँ से बातचीत कीजिए और स्त्री शिक्षा संबंधी उस समय की स्थितियों का पता लगाइये और वर्तमान स्थितियों से तुलना करते हुए एक निबंध लिखिए। लड़कियों की शिक्षा के प्रति परिवार व समाज में जागरूकता आए– इसके लिए आप क्या–क्या करेंगे?

7. अपनी पाठ्य–पुस्तक 'क्षितिज' के पद्य भाग से ' राम–लक्ष्मण–परशुराम संवाद' नामक पाठ को पढ़कर उसे संवादात्मक शैली में लिखिए।

Subject: MATHS

1. Prove that for every positive integer n $(1)^n + (8)^n - (3)^n - (6)^n$ is divisible by 10.

2. Solve the equation $3x^4 - 40x^3 + 130x^2 - 120x + 27 = 0$
   Given that the product of two of its roots is equal to product of the other two.

3. A page is torn from a novel and the sum of pages of remaining pages is 15000. What are the page number on the torn page.

4. If $x = 5 + 2\sqrt{6}$ find the value of $\sqrt{x} + \frac{1}{\sqrt{x}}$

5. Divide Rs. 600 in A, B C in such a way that 40 more than $\frac{2}{5}$ part of A, 20 more than $\frac{2}{7}$ part of B, 10 more than $\frac{9}{17}$ part of C are mutually equal.

6. X, Y, Z can finish a work in 6, 8 and 12 days respectively Y and Z started and worked for 2 days. After this Z left the work and X joined. Now find the time taken by X and Y to finish this work.

7. Finds the units place in product $(7)^{71} \times (6)^{59} \times (3)^{65}$

8. Find LCM of $\frac{3}{8}$ and $\frac{9}{16}$

9. Find a minimum number multiple of 7 which when divided by 2,3,4,5,6 leaves remainder 1,2,3,4,5 respectively.

10. The concentration of a acid in a container is 40%. If we replace some of its part with 19 % concentrated acid the resulting concentration becomes 26%. Find what part of acid was replaced.

11. Prove that $\sqrt{2}$ is an irrational number.

12. Show that only one of the number n, n+2, and n+4 is divisible by 3

13. Write whether $\frac{2\sqrt{16} + 3\sqrt{324}}{2\sqrt{289}}$ on simplification gives a rational or an irrational number.

14. If a and b are two odd positive integers such that a > b, then prove that one of the two numbers $\frac{a+b}{2}$ and $\frac{a-b}{2}$ is odd and the other is even.

15. A number when divided by 342 gives a remainder 40. When the same number divided by 19, What would be the remainder.

16. Can two numbers have 19 as their HCF and 380 as their LCM? Give reason.

17. When 31513 and 34369 are divided by a certain three digit number, the remainder are equal. Find this remainder

18. Explain why $7 \times 11 \times 26 + 13$ is a composite number.

19. If α, β are the zeros of the polynomial $f(x) = x^2 - 5x + k$ such that $\alpha - \beta = 2$ Find the value of k

20. If α, β are the zeros of the polynomial $f(x) = x^2 - 8x + 12$ Find the value of $\frac{\alpha}{\beta} + \frac{\beta}{\alpha}$

21. Find HCF and LCM of 336 and 84 and verify that product of numbers is equal to the product of their HCF and LCM.

22. Express each of following as product of its primes.
    (a) 99899   (b) 1005

23. Prove that $n^4 + (4)^n$ is a composite number for all integer value n >1

24. Prove that if x and y are odd positive integers then $x^2 + y^2$ is even but not divisible by 4.

25. Find the zeros of $P(x) = x^2 - 10x + 21$ and verify the relationship between zeros and coefficient.

26. Form a polynomial whose zeros are 3 and -6.

27. . What must be added from $8x^4 + 14x^3 - 2x^2 + 7x - 8$ so that The resulting polynomial is exactly divisible by $4x^2 + 3x - 2$.

28. If sum and product of zeros of $P(x) = x^2 + ax + b$ are 8 and 12 find values of a and b.

29. Find zeros of polynomial $x^2 - 2x + 1$

30. Identify $\sqrt{\frac{3125}{125}}$ as rational or irrational.

31. Find the least square number divisible by 3,4,5,6 and 8.

32. Can two numbers have 16 as their HCF and 320 as their LCM.

33. Write sum of zeros of quadratic polynomial $x^2 + (x+4)x + 20$

34. The product of two numbers is 1080 and their HCF is 30, Find the LCM.

35. Write the quadratic polynomial   whose zeros are 1 and 2.

36. The decimal expansion of the rational number $\frac{45}{16 \times 128}$ will terminate after how many places of decimals

37. Find the zeros of quadratic polynomial x^2 -5x -14 and verify the relation between zeros and coefficients.

38. Find all zeros of x^4 - 8 x^3 + $10x^2$ +16x -24 if two of its zeros are +√2 and -√2 .

39. Use Euclid's division algorithm to find HCF of 210 and 55.

40. Prove that √3 is an irrational number.

41. Find the zeros of quadratic polynomial x^2 -8x +12 and verify the relation between zeros and coefficients.

42. The sum of two number is 52 and their LCM is 168. Find the numbers.

43. Use Euclid's division algorithm to find HCF of 867 and 255.

44. Represent the following pair of linear equation graphically and hence comment on the condition of consistency of this pair

x- 5y = 6

2x – 10y = 12

45. Solve the following pair of equation for x and y

3x+4y = 10

2x – 2y = 2

46. On dividing x^3 - $3x^2$ + x +2 by a polynomial g(x) , the quotient and remainder were x-2

and -2x + 4, respectively . Find g(x).

47. The decimal expansion of the rational number $\frac{189}{625}$ will

terminate after how many places of decimals

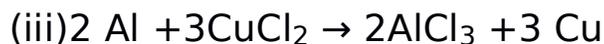48. Form a quadratic polynomial whose one zero is 8 and the product of the zeros is -56.
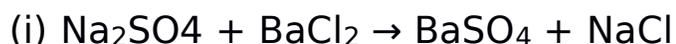
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Subject: SCIENCE

CHAPTER – 1 CHEMICAL REACTION AND EQUATIONS

Q.1 Why do potato chips manufacturers fill the packet of chips with nitrogen gas?

Q.2 Identify the type of reaction in the following examples:

(i) $Na_2SO4 + BaCl_2 \rightarrow BaSO_4 + NaCl$

(ii) $2H_2 + O_2 \rightarrow 2H_2O$

(iii) $2 Al + 3CuCl_2 \rightarrow 2AlCl_3 + 3 Cu$

Q.3 Write balanced chemical equations for the following reactions:

(i) Silver bromide on exposure to sunlight decompose into silver and bromide.

(ii) Sodium metal reacts with water to form sodium hydroxide and hydrogen gas.

(iii) Magnesium react with hydrochloric acid to form magnesium chloride and hydrogen gas.

Q.4 Describe an activity to observe what happens when quick lime is added to water taken in a beaker. State two important observation and name the type of reaction take place.

Q. 5 What is an oxidation reaction? Give one example.

Q.6 What is rancidity? Mention any two ways by which rancidity can be prevented.

Q.7 What happened chemically when quicklime is added to water filled in a bucket?

Q.8 Why respiration is considered as exothermic reaction?

Q.9 Give two examples of thermal decomposition.

Q.10 Give one example where chemical reaction is determined by change in colour.

CHAPTER – 2 ACID, BASE AND SALT

Q.1 How will you test for the gas which is liberated when hydrochloric acid reacts with an active metal?

Q.2 The Ph of a sample of vegetable soup was found to be 6.5. How is this soup likely to taste?

Q.3 Write the names and formula of the products formed by the action of chlorine on slaked lime.

Q.4 Write a balanced chemical equation for a neutralisation reaction, mentioning the physical state of the reactants and the products.

Q.5 What effect does an increase in concentration of H^+(aq) in a solution have on the Ph of solution?

Q.6 State in brief the preparation of washing soda from baking soda. Write

balanced chemical equation of the reaction involved.

Q.7 What is the colour of $FeSO_4.7H_2O$ crystals? How does this colour change upon heating? Give balanced chemical equation for the changes.

Q.8 A student dropped few pieces of marble in dilute HCl contained in a test tube. The evolved gas was passed through lime water. (i)What change would be observed in lime water? (ii)Write balanced chemical equation for the above change.

Q.9 Tooth enamel is one of the hardest substances in our body. How does it undergo damage due to eating chocolates and sweets? How do toothpastes prevent this damage?

Q.10 What are strong acids and weak acids? Identify the strong and weak acids from the following list. Hydrochloric acid, acetic acid, formic acid, nitric acid

ELECTRICITY

Q.1 What happens to resistance of a conductor when its area of cross-section is increased?

Q.2 A given length of a wire is doubled on itself and this process is repeated once again. By what factor does the resistance of the wire change?

Q.3 Why is a series arrangement not used for connecting domestic electrical appliances in a circuit?

Q.4 Resistance of an incandescent filament of a lamp is comparatively much more than that when it is at room temperature. Why?

Q.5 A 9 Ωresistance is cut into three equal parts and connected in parallel. Find the equivalent resistance of the combination.

Q.6 An electric iron has a rating of 750 W, 220 V. Calculate the

(i) current flowing through it, and

(ii) its resistance when in use.

Q.7 Draw a schematic diagram of an electric circuit consisting of a battery of five 2 V cells, a 20 Ω resistor, a 30Ω resistor, a plug key, all connected in series. Calculate the value of current flowing through the 20 Ωresistor and the power consumed by the 30 Ω resistor.

Q.8 Compute the heat generated while transferring 96000 C of charge in one hour through a potential difference of 50 V.

Q.9 A torch bulb is rated 2.5 V and 750 rnA. Calculate (i) its power, (ii) its resistance and (iii) the energy consumed, if this bulb is lighted for four hours.

Q.10 Will current flow more easily through a thick wire or through a thin wire of the same material when connected to the same source? Why?

CREATIVE WORKS-

Q.1 Write about hardship faced by people living near chemical industries.

Q.2 Study quality of milk used by people in your area.

Q.3 Discuss uses and abuses of chemicals.

Q.4 Write harmful effects of drinking alcohol (ethanol).

Q.5 Write the importance of common salt in production of other salts

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Subject: SOCIAL SCIENCE

1. Make a list of all the public facilities in your locality. Suggest some public facilities required in your areas.

2. What is EVM? What are the problems found in current days in relation to this system?

3. Describe the role of social media in creating political consciousness among people? What are the demerits of social media?

4. Write an essay about RTE?

5. How did icons and symbols of India develop the sense of collective belongingness?

6. Make a diagram showing the land distribution pattern of India.

7. What are the different types of soils found in India? Explain them in detail with suitable examples?

8. List various ways to solve the problems of land degradation?

9. What are the different ways and methods used by World Bank and UNDP for comparison of different countries?

10. We use average to find out the per capita income of a country. What are the limitations for using the average?

11. Though Punjab is economically developed than Kerala, why do we accept Kerala to be more developed than Punjab?

12. Write an essay on the topic sustainable development.

13. What is HDI? What are the methods used to find out the HDI of different countries?

14. Describe the causes of ethnic conflict in Sri Lanka?

15. What do you know about the community government of Belgium and why was it formed?

16. Describe how power is distributed among different institutions in modern democracies? Explain with suitable examples.

17. Describe the importance of the summit held in Rio De Jenario in relation to environment?

18. What is Khilafat movement? Why was it started?

19. Describe different socio-economic problems during first world war in India.

20. Define the term development. Explain how it differs from person to person?

21. Make a diagram on the soil profile.

22. What were different limitations of civil disobedience movement? Explain with suitable examples?

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Subject: VISUAL ART

Make a Creative Painting (Paper size 15 x 20 inch) Students can use Water colour, Poster colour, Crayon, Pastel Colour & Mix medium etc.
Make a Creative Art work with the help of west material.
Make a Birthday Card with the help of old invitation card and decorate it with west material.

द राजस्थान इंटरनेशनल स्कूल, कोटपूतली

ग्रीष्मावकाश अवकाश गृहकार्यम् 2017

कक्षा—10

1. स्व दिनचार्या लिखत।

2. अधोलिखितानां धातुपदानां कर्मवाच्य रूपाणि लिखत।

   कृ, स्था, जि, स्मृ, गम्, पच्, वच, बन्धु, श्रु, रुच।

3. अधोलिखितानाम् समासपदानां समासविग्रहं कुरुत—

   1. कृष्णसर्पः 2. शास्त्रपारङ्.गतः, साधुवृत्तिः, पंचवटी, वीरजननी, गुरूवचम्, अष्टाध्यायीं, सुवर्णपूरितः, विरलसंख्यां, वक्षुर्दानम्, वाक्यतु, यथासमयम्, सचक्रम्, विमूठधी, अहर्निशम्, श्रीकृष्णार्जुनौ, स्थितप्रज्ञः उपकृष्णम्, प्रतिदिनम्, पितरौ।

4. स्व परिचयम् दशवाक्येषु।

5. स्वविद्यालयस्य वर्णनं कुर्वन् मित्रं प्रति पत्रम् लिखत।

6. एकतः पंच पर्यन्तं संख्यानांरूपाणि लिखत।

7. कालिदासस्य ग्रन्थानां सक्षिप्त परिचय।

8. गीतायाः पंचश्लोकाः लिखत।

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Subject: COMPUTERS / FIT

Make a scrap book or Power point presentation:

1) Explain various types E-Commerce &E-Creating web sites with pictures. And elaborate how these websites are useful for common man.

2) Explain the latest communication technologies used such as 4G, 3G, CDMA, GSM, Wi-Fi, Bluetooth, Hotspot, GPRS, GPS etc.

3) Explain with help of various pictures how you can say that computers are versatile in nature.