THE ASIAN SCHOOL, DEHRADUN HOLIDAY HOMEWOR- SUMMER VACATION 2019 FOR CLASS IX

English: 1. Read the following lessons thoroughly a) The Sound of Music (Reader - Beehive) b) The Adventures of Toto (Supplementary Reader-Moments).

* Write 10 key words from each lesson, highlighting their meanings other than the ones given in the reader.

* Use any 5 (five) words from each lesson mentioned above in sentences of your own.

2. Read poems written by the poet Robert Frost, other than the ones prescribed in your syllabus and write the theme of any two poems in 80-100 words, that you liked the most.

3. Write a descriptive paragraph of 100-150 words on 'My First Birthday Bash'.

4. Write a paragraph throwing light on the early life and achievements of Ustad Bismillah Khan. Write the paragraph in 100-150 words. Note : Do all the given work neatly in English homework notebook.

1 निम्नलिखित विषयों पर लगभग 400 शब्दों का निबन्ध लिखिए – क) महँगाई की मार 🛛 ख) मजदूरों की समस्याएँ और उनका समाधान Hindi: 2. निम्नलिखित विषयों पर पत्र लिखिए-क) अपने छोटे भाई को पत्र लिखकर अपने परीक्षाफल के सम्बन्ध में बताते हुए उसे भी परीक्षा की अच्छी तैयारी की सलाह दीजिए। ख) आपके पिताजी का स्थानान्तरण देहरादून से दिल्ली हो गया है। बैंक मैनेजर को पत्र लिखकर खाता बन्द कराने का अनुरोध कीजिए। 3. निम्न सामासिक पदों का समास विग्रह कर समास का नाम भी दीजिए-अष्टाध्यायी चत्र्भुज नवनिधि चारपाई पंचतंत्र देशवासी घडदौड आत्मविश्वास दयार्द्र तूलसीकृत लक्ष्यभ्रष्ट अंधविश्वास कालीमिर्च नीलगगन भलामानस सदधर्म कमलनयन क्रोधाग्नि चरणकमल पंजाब पीताम्बर जीतेन्दीय घनश्याम नीलकंत विषधार बाप-दादा ডার–ডারাएঁ यथाशक्ति यथासमय साफ–साफ आजन्म Note : सम्पूर्ण कार्य अपनी गृहकार्य कॉपी में करें।

Mathematics

Q1. Convert the following decimal number in the form P/q. a) 23.43 b) 0.00026, c) -25.6875 Q2. Give examples of two irrational number the product of which is a rational number (ii) an irrational number. Q3. Simplify: $\frac{7^{n+2}-3x7^{n+1}}{20x7^n-2x7^n}$ Q4. $\frac{9^nx3^2x3^n-27^n}{3^{3m}x2^3} = \frac{1}{27}$ Prove that m-n = 1. Q5. Find the value of x, if $5^{x-3} \times 3^{2x-8} = 225$. Q6. Solve for x; $2^{x+1} = 4^{x-3}$. *Q7. Simplify $\frac{(a^{3n-9})^6}{a^{2n-4}}$ Q8 Simplify $(81/16)^{-3/4} \times [(25/9)^{-3/2} \div (5/2)^{-3}]$ Q9. Simplify (i) $(\sqrt[3]{8})^{-1/2}$ (ii) $(\sqrt{4})^{-7} \times (\sqrt{2})^{-5}$. Q10. If 5^{3x} = 125 and 10^{y} = 0.001 find x and y. Q11. Simplify the following by rationalizing the denominator $\frac{7+3\sqrt{5}}{7-3\sqrt{5}}$ Q12. $\frac{\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}}$ = a+ b $\sqrt{15}$ find a and b. Q13. Simplify $\frac{4+\sqrt{5}}{4-\sqrt{5}} + \frac{4-\sqrt{5}}{4+\sqrt{5}}$ Q14. Prove that $9^{3/2} - 3x5^0 - \left(\frac{1}{81}\right)^{-1/2} = 15$ Q15. $\frac{2^n + 2^{n-1}}{2^{n+1} - 2^n} = 3/2.$ Q16. Simplify $\frac{\sqrt[4]{243}}{\frac{4}{3}}$ Q17. Give the geometrical representation of 2x + 13=0 as an equation in (i) one variable (ii) two variables. Q18. Draw the graph of (i) $\frac{x}{2} - \frac{y}{3} = 2$ (ii) $\frac{x-2}{3} = y - 3$ (iii) y = 2x. Q19. Draw the graph of equation 2x +3y = 12 from the graph find the coordinates of point whose y coordinate is 3 and whose x coordinate is -3. Q20. Draw the graph of equation 2x+y=6 Shade the region bounded by the graph and the coordinate axes. Also, find are of shaded region. Q21 If the point A (3,5) and B (1,4) lie on the graph of the line ax + by = 7 find values of a and b. Q22. Write two solutions for each of the following : (i) $\frac{2}{3}x - y = 4$ (ii) x = 6yQ23. Find two irrational number between $\sqrt{3}$ and $\sqrt{5}$ Q24. Draw the graphs of y = x and y = -x in the same graph. Also find the coordinate of the point where the two lines interest. Q25. A line passes through the point (-4,6) and is parallel to x axis find its equation. Q26. Write the equation of the line that is parallel to y axis and passing through the point (-3,5) Q27.Visualize 5.23 on number line. Q28. Draw the graph of the equation $\frac{x}{3} + \frac{y}{4} = 1$ Also find the area of the Δ formed y the line and the coordinate axes. Q29. The graph of the linear equation x-2y = 4 will intersect x axis at what point Q30. The point of intersection of the coordinate axes is Q31. The measure of the angle between the coordinate axes is..... Q32. The ordinate of any point on x axis is

Q33. The abscissa of any point on y axis is

Q34. The perpendicular distance of the point (4,3) from x axis is.....

Q35. The distance of the point P (4,3) from the origin is.....

Q36. Plot the following points on graph paper :

b) (0,7) a) (2,5) iii) (-4,0) iv) (-3,2) v) (-5,-7) Q37.In which quardant do the following points lie? b) (-2,-5) a) (-3,5) c) (4,-2) d) (4,2) Q38. If (2k-1,k) is a solution of the equation 10x-9y = 12, find k; Q39. Draw the graphs of each of the following linear equations : a) 2x+4 = 3x+1b) x-2=0 c) y+3=0

Q40. Find the coordinate of the point where straight line intersect x axis, y axis, 3x-2y=4

Q41. Write equation of x axis and y axis.

Q42. Draw the graph of the equation 3x+4y=12 from the graph find the coordinate of the point where y coordinate is 3 and where x coordinate is -3. Q43. The perpendicular distance of the point P (4,3) from y axis is .

Q44.Solve the equation 2y-1 = y+1 and represent it graphically on the coordinate plane.

Q45. Find the value of K for where the point (1, -2) lies on the graph of the linear equation. 3x + 2y = k.

Q46. Represent: (2,3), (-2,3), (-2,-3) and (2,-3) on graph paper and name the shape. Also, find its perimeter.

Q47. If abscissa and ordinate both are positive then co-ordinate cannot lies in which quadrants.

Q48. The perpendicular distance of a point from the x- axis is 4 units and the perpendicular distance from the y-axis is 5 units. Write the coordinates of such a point if it lies in the IV quadrant.

Q49. Simplify : $\sqrt{48} - \sqrt{72} + \sqrt{27} + 2\sqrt{18}$.

Q50. Simplify : $\frac{\sqrt{5}-2}{\sqrt{5}+2} - \frac{\sqrt{5}+2}{\sqrt{5}-2}$

Note : The above given questions are to be done in Maths Homework notebook.

SCIENCE :

Physics: Prepare a project report on usage of Laser technology in various walks of life.

Guildlines : The project should include following areas :

a) Scientific Principle Involved

c) Inclusion of Laser technology in various fields:

ii) Heat Treatment iii) Lunar Laser v) Soft Tissue Surgery i) Spectroscopy iv) Laser Eye Surgery

b) Laser Diode

d) Project should be handmade and it should contain 18-20 pages.

e) Sequencing of the project should be : i) Acknowledgement, ii) Certificate, iii) Index,iv) Content, v) Bibliography

Chemistry :

Prepare a project on latest technique adopted in obtaining various fractions of petroleum under the following topics : 1.

- i) Principle involved
- ii) Size of the plant and conditions employed
- iii) Utility of the various components obtained
- iv) Cost factor involved
- v) Project should include pictures and diagrams
- 2. What is crystallization? Explain the formation of any five crystalline substances covering the following feature :
- i) Structure and preparation ii) Characteristic properties iii) Applications in various fields iv) Crystal forms and colour

Biology: Make an investigatory project report on the topic "Connective Tissues" emphasizing the following points:

Connective Tissues (Definition) i)

ii) Different types of Connective Tissues.

iii) Characteristics, Structure, Location and Function of different types of Connective tissues.

A disease related to any one Connective Tissue, its cause, signs and symptoms, treatment and preventive measures. iv)

Instructions :

i) The project report should be handwritten in A-4 size pages and should be of 12-15 pages.

- ii) The project report should be presented in the following order-a) Cover Page showing title of the project, student information, name of school and academic session b) Acknowledgements c) Chapters with relevant headings d) Summary and Conclusion based on findings e) Bibliography
- iii) Credit will be awarded to the original drawings, illustrations and creative use of materials.
- iv) All photographs and sketches should be labelled and acknowledged.

Social Science : Prepare a project work on "Development of Farming methods showcasing the social and physical features of India."

Following topics must be included in the project :

- a) Terrace Farming b) Vertical Farming c) Mixed Farming d) Multiple Cropping e) Deforestation under colonial rule
- The Project should include the following details:
- a) The total length of the project report should not be more than the 12 written pages of A-4 size sheet.
- The project work should be hand written and credit will be given to original drawing. b)
- It should be presented in a neatly bound simple project file. The project should be developed and presented in the following order : c)
 - i) Cover page showing project title, student information, school and year.
 - ii) List of contents with page number.
- v) Summary and Conclusion

iii) Certificate page

vi) Bibliography

Acknowledgement

iv)

Computer:

Q1. What is an operating system? List 5 important functions of it in detail.

Q2. What are the important features of Word Processing software? Write 5 of them.

Q3. What do you understand by the following related to any Digital Presentation software like :

MS-PowerPoint (a) Transition (b)Animation (c) Rehearse timings (d) Slide (e) Slide Layout

Q4. Define the following terms in 25-30 words.a) Virus b)Phishing c)Malware d) Flash Memory e)Authentication f)Anti-virus Software g) Firewall Q5. What is a spreadsheet? Write 5 important features of it.

French : Write all the conjugations given in your book from page number 151-158.

Note : Make a separate note book.

PRINCIPAL

VICE-PRINCIPAL