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CLASS:XII A\&B


| SUBJECT | TOPIC |
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| MATHS |  |
| BIOLOGY | Find the <br> relevant <br> Ouestions from.$\frac{\text { Previous vear }}{\text { auestion paper }}$$\frac{\text { fram the }}{\text { Chapter/topic }}$$\frac{\text { covered till. }}{\text { April. }}$Make a table of |


|  | $\frac{$ fungal and  <br>  protozoan  <br>  Diseases }{ Write a note on }pollen <br> germination. |
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| ENGLISH |  |


|  | highlighting the <br> neglect of our national <br> monuments <br> and how these <br> are being <br> damaged in the <br> present dav <br> world. <br> 04. Write an <br> article on the topic "how <br> google controls <br> the life of an <br> average <br> person" <br> 05 learn and <br> revise all the <br> syllabus of <br> periodic test 1. |
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| HINDI | कार्य परियोजना सर्यकांत त्रिपाठी <br> निराला का जीवन परिचय साहित्यिक रचनाएं एवं परस्कार तथा उनकी महत्वपपर्ण प्रसिद्ध रचनाओं पर विश्लेषण करते हुए एक कार्य परियोजना स्पाडरल बाईंडिंग में प्रस्तुत करें. कला समेकित परियोजना मध्यप्रदेश एवं |


|  | बिहार के <br> खानपान <br> वेशभषा.साहित्य <br> कार.कलाकेंद्न और <br> सौंदर्य पर एक <br> ब्रोशर बनाए। <br> आलेख लिखें <br> 120 शब्दो का <br> वसधैव कटंबकम। |
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| COMPUTE$\stackrel{\underline{\mathbf{R}}}{\text { SCIENCE }}$ | Python functions |
|  | 1. Write a Python function to find the maximum of three numbers. <br> 2. Write a Python function to sum all the numbers in a list. <br> Sample List: (8, 2, 3, 0, 7) <br> Expected Output : 20 |
|  | 3. Write a Python function to multiply all the numbers in a list. <br> Sample List: (8, 2, 3, -1, 7) <br> Expected Output : -336 |
|  | 4. Write a Python program to reverse a string. <br> Sample String : "1234abcd" <br> Expected Output : "dcba4321" |
|  | 5. Write a Python function to calculate the factorial of a number (a non-negative integer). The function accepts the number as an argument. |


|  | 6. Write a Python function to check whether <br> a number falls within a given range. <br> 7. Write a Python function that accepts a <br> string and counts the number of upper and <br> lower case letters. <br> Sample String : 'The quick Brow Fox' <br> Expected Output : <br> No. of Upper case characters : 3 <br> No. of Lower case Characters : 12 |
| :--- | :--- |
| 8. Write a Python function that takes a list |  |
| and returns a new list with distinct elements |  |
| from the first list. |  |
| Sample List : [1,2,3,3,3,3,4,5] |  |
| Unique List : [1, 2, 3, 4, 5] |  |
| 9. Write a Python function that takes a |  |
| number as a parameter and checks whether |  |
| the number is prime or not. |  |
| Note : A prime number (or a prime) is a |  |
| natural number greater than 1 and that has |  |
| no positive divisors other than 1 and itself. |  |
| 10. Write a Python program to print the |  |



| PHYSICS | QUESTIONS <br> 1. A glass rod when rubbed with silk acquires a charge $+1.6 \times 10^{-12} \mathrm{C}$. What about silk ? <br> 2. If Coulomb's law involved $1 / r^{3}$ dependence instead of $1 / r^{2}$, will the Gauss theorem be applicable? <br> 3. Define electric potential. Is it a vector or a scalar quantity? <br> 4. Which orientation of an electric dipole in a uniform electric field would correspond to stable equilibrium? <br> 5. If the radius of the Gaussian surface enclosing a charge is halved, how does the electric flux through the Gaussian surface change? <br> 6. Define the electric dipole moment of a dipole. Write its SI unit. <br> 7. What is the electrostatic potential due to an electric dipole at an equatorial point? <br> 8. What is the work done in moving a test charge q through a distance of 1 cm along the equatorial axis of an electric dipole <br> 9. Define the term 'potential energy' of charge ' $q$ 'at a distance ' $r$ ' in an external electric field. <br> 10. Name the physical quantity whose SI unit is J/C. is it scalar or vector quantity? <br> 11. A hollow metal sphere of radius 5 cm is charged such that the potential on its surface is 10 V . what is potential at the centre of the sphere? <br> 12. A charge ' $q$ ' is placed at the centre of a cube of side 1 , what is the electric passing through each face of the cube? |
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|  | capacitance c is charged to a <br> potential V. If it is then connected to <br> another uncharged capacitor having <br> the same capacitance. Find out ratio <br> of the energy stored in the combined <br> system to that stored initially in the <br> single capacitor. |
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| 18. Derive an expression for the work |  |
| done in rotating a dipole from the |  |
| angle $\Theta_{0}$ to $\theta_{1}$ on a uniform electric |  |
| field E. |  |


8. Two capacitors of unknown capacitances $\mathrm{C}_{1}$ and $\mathrm{C}_{2}$ are connected first in series and then in parallel across a 100 V battery. If the energy stored in the two combinations is 0.045 J and 0.25 J respectively, then determine the value of $\mathrm{C}_{1}$ andC $\mathrm{C}_{2}$. Also calculate the charge on each capacitor in parallel combination.
9. A thin metallic spherical shell of radius R carries a charge Q on its surface. A point charge $\mathrm{Q} / 2$ is placed at the centre C and another charge +2 Q is placed outside the shell at A at a distance x from the centre as shown in the figure.
(i) Find the electric flux through the shell
(ii) State the law used

(iii) Find the force on the charges at the centre C of the shell and at the point A .
10. Two identical parallel plate capacitors A and B are connected to a battery of V volts with switch S closed. The switch is now opened and the free space between the plates of the capacitors is filled with a dielectric of dielectric constant K . Find the ratio of the total electrostatic energy stored in both capacitors before and after the introduction of the dielectric.






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| distance $\mathrm{r}_{1}$ to $\mathrm{r}_{2}\left(\mathrm{r}_{2}>\mathrm{r}_{1}\right)$ |  |
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| CHEMIST | project work- |
|  | Making file of |
| RY | the proiect |
|  | , based on |
|  | application of |
|  | chemistry. |
|  | Assignment |
|  | questions from |
|  | chapter- |
|  | solution |
|  | Conversions |
|  | and named |
|  | reactions from |
|  | chapter- |
|  | Haloalkanes |
| ECONOM | Students As |
|  | part of your |
| CS | Assignment |
|  | prepare a 15 |
|  | page analvtical |
|  | project on any |
|  | one of the |
|  | given topics |
|  | using diagrams |
|  | and tabular |


|  | presentation submit in a file on 19th June 2023. <br> *Agricultural marketing in Indian Economy <br> *Make in India <br> *Environmenta $\underline{1}$ Crises <br> management in India |
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| $\frac{\text { ACCOUNT }}{\underline{\text { ANCY }}}$ | Ch 01- Fundamentals OF partnership TRUE/FALSE Questions of the chapter Fill in the blanks Questions of the chapter MCQ Questions of the chapter Application Based Questions of the chapter Questions no $4,5,12,23,36,40,55,58,62,66,68,72,74,78,80$ $85,88,93$ <br> Ch 02- Valuation of Goodwill <br> TRUE/FALSE Questions of the chapter Fill in the blanks Questions of the chapter MCQ Questions of the chapter Application Based Questions of the chapter Questions no3,6,8,10,15,,17,22,26,30,34,38 |
| $\frac{\text { BUSINESS }}{\text { STUDIES }}$ | Ch- 01 Introduction and Significance of Management <br> Case studies of the chapter 3,5,7,10,12,14,18,20 <br> TRUE/FALSE Questions of the chapter Fill in the blanks Questions of the chapter MCQ Questions of the chapter <br> Ch-02 Principles of Management <br> Case studies of the chapter 1,3,8,11,15,17,19 |


|  | TRUE/FALSE Questions of the chapter Fill in the blanks Questions of the chapter MCQ Questions of the chapter |
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| $\frac{\text { PHYSICAL }}{\frac{\text { EDUCATI }}{\underline{O N}}}$ | 1) types of <br> tournaments <br> 2) Draw <br> staircase <br> method. cyclicmethod of5.6.7.8 teams3) Drawknockoutfixtures of21.29.31 teams |

