

Acharya Shree Sudarshan  
**KRISHNA NIKETAN**  
**Summer Assignment**  
**2018**

Sub. : **Sanskrit**

Class: **IX<sup>th</sup>**

Learn and Write :

1. प्रथम पाठस्य सर्वेषाम् श्लोकानाम् अन्वयम् लिखत ।
- 2- अधेलिखित प्रश्नानाम् उत्तराणि लिखत –
  - i) कविः वीणापाणिं किं कथयति?
  - ii) वसन्ते किं भवति?
  - iii) सरस्वत्याः वीणां श्रुत्वा किं परिवर्तनं भवतु इति कवेः इच्छां लिखत?
  - iv) निर्धनायाः वृ(याः दुहिता कीदृशी आसीत्?
  - v) बालिकया पूर्वं किं न दृष्टम् आसीत्?
  - vi) रुदन्तीं बालिकां काकः कथम् आश्वासयत्?
  - vii) बालिका किं दृष्ट्वा आश्चर्यचकिता जाता?
  - viii) बालिका केन सोपानेन स्वर्णं भवनम् आससाद?
  - ix) सा ताम्रस्थाल्याः चयनाय किं तर्कं ददाति?
  - x) गर्विता बालिका कीदृशं सोपानम् अयायत् कीदृशं च प्राप्नोत् ।
- 3- शब्द रूपाणि लिखत –  
बालक, लता, पफल, कवि, साधु, तत् ;उद्धं
- 4- धतु रूपाणि लिखत –  
भू, पठ्, गम्, सेव, नी
- 5- त्रीणि औपचारिक पत्राणि लिखत ।
- 6- एकतः शतम् यावत् ;1-100द्ध संख्यानाम् लिखत ।

**KRISHNA NIKETAN**

**Summer Assignment  
2018**

Sub. : **IT**  
Std:**IX<sup>th</sup>**

**Section –A [Functional English]**

1. Read the following paragraph carefully and then using this information, complete the sentences that follow :  
Puja and Rahul are parents of two beautiful children. John and Rekha. Both John and Rekha are 14 years old. They were born on same date. Jhon is a badminton player and has won many prizes. Rekha is a lead singer in her school band. Puja is a teacher in a school and Rahul is an owner of a car showroom.
  - a) John and Rekha are..... .
  - b) Pujha is Rahul's ..... .
  - c) Rahul is ..... of Puja.
  - d) Rahul and Puja are ..... of John and Rekha.
  - e) Rahul ..... a car showroom. (own/run)
  - f) Puja ..... in a school .
  - g) John ..... Badminton.
  - h) Rekha ..... in school band.
  - i) Jhon is Rekha's ..... .
2. What time is it ?
  - a) 10:05  $\Rightarrow$ It's ..... ten .
  - b) 1:00  $\Rightarrow$ It's .....
  - c) 5:30  $\Rightarrow$ It's ..... five .
  - d) 6:45  $\Rightarrow$ It's ..... seven .
  - e) 3:20  $\Rightarrow$ It's ..... three .
  - f) 2:40  $\Rightarrow$ It's ..... three .
  - g) 11:15  $\Rightarrow$ It's ..... eleven .
  - h) 3:50  $\Rightarrow$ It's ..... four .
3. Write some sentences about your following aspirations :
  - a) Acquiring skill(s)
  - b) Visiting places
  - c) Career goals
  - d) Objectives to achieve
4. Carefully read the sentences given below and choose if they are in active voice or passive voice :
  - a. I ate a piece of chocolate cake.
  - b. The money was stolen.
  - c. They are paid on Fridays.
  - d. I washed my car three weeks ago.
  - e. His hair was cute by a professional.

**Section –B [Fundamental of Computer]**

1. What are the significance of Computers?
2. What was the name of first computer?
3. What are the main components of computer?
4. Define the terms given:- Data, Information, Instruction.
5. How logical operation is different from arithmetical?
6. Write the names of technology used in the different Generations of computers.
7. What are the different types of computer on the basis of technology used?

8. What are the different types of computer on the basis of speed and storage?
9. Discuss the main features of computer.
10. Write the name of computer's component where actual processing is done.
11. What is IPO cycle?
12. What is memory? Discuss the different types of memory?
13. Differentiate between Sequential Memory and Random Access Memory.
14. How RAM is different from ROM?
15. What is ALU?
16. Write the different units of memory (from smallest to biggest).
17. Write the different types of RAM and ROM.
18. Why is RAM called a volatile memory?
19. Write the name of unit in which speed of computer is measured?
20. Write the name of place where computer is used and for what purpose?
21. Write the names of different secondary storage device with their storage capacity.

**Project:- Draw and discuss the different types of Storage devices and explain it.**

**Note:- i) Read and Learn session 15, Carefully about the Homographs.  
ii) Solve all practice exercises through session 1 to 15.**

## **First Assignment of FIT**

### **Class-IX**

1. What is Computer?
2. What is IT?
3. What was the name of first computer?
4. What are the main components of computer?
5. Write the names of technology used in the different Generations of computers.
6. What are the different types of computer on the basis of technology used?
7. What are the different types of computer on the basis of speed and storage?
8. Discuss the main features of computer.
9. Write the name of computer's component where actual processing is done.
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19. Why is RAM called a volatile memory?
20. Write the name of unit in which speed of computer is measured?
21. Write the name of place where computer is used and for what purpose?
22. Write the names of different secondary storage device with their storage capacity.
23. Write the names of all input devices with their utility.
24. What is scanner? Discuss their different types.
25. Differentiate between scanner and OCR.
26. What is mouse? What are their different types?
27. What is the use of Barcode reader?
28. How Light pen works?
29. Where MICR is used?
30. How Digital camera is different from traditional camera?
31. What is monitor? What are their different types?
32. Discuss the different types of printer.

33. Discuss the different types of plotter.
34. Write the names of different types of CDs and DVDs.
35. Write the different size of floppy disk with their storage capacity.
36. What is Blu-ray disk? Why it is called so?
37. Discuss the different types of memory stick.
38. Name the non-volatile main memory of the computer.
39. What are the functions of CPU?
40. What are the steps a computer CPU undergoes to complete a cycle of operation?
41. Name the parts of CPU.
42. How does a Blu-ray disk store much more data than a DVD?
43. Name two different types of monitor.
44. What is the function of scanner?
45. What is a plotter? Name two types of plotter.
46. Differentiate between light pen and joystick.
47. What is Program?
48. What is software?
49. Describe system software.
50. What is Operating System?
51. What are utility software?
52. What do you mean by encryption and decryption?

## **First Assignment of Computer**

### **Class-VIII**

1. What is Computer?
2. What is Hardware and Software?
3. What was the name of first computer?
4. What are the main components of computer?
5. Write the names of technology used in the different Generations of computers.
6. What are the different types of computer on the basis of technology used?
7. What are the different types of computer on the basis of speed and storage?
8. Discuss the main features of computer.
9. What is memory? Discuss the different types of memory?
10. How RAM is different from ROM?
11. What is mouse? Name their different types?
12. What is Multimedia? Discuss their different types.
13. When the word 'Multimedia' was used first time?
14. What is Simulation? How it can be classified?
15. Discuss Virtual Reality?
16. Who develop the 3D environment and when?
17. What is Animation? How it is created?
18. For what purpose Multimedia is used? Discuss any four.
19. What are the different types of threat?
20. What are hardware threats?
21. What are different software threats?
22. What is Hacking?
23. What is Phishing?
24. What are the different methods in which Authentication can be checked?
25. What is Encryption and Decryption?
26. What is Antivirus? Write its functions.
27. What is Firewall? How it can protect our computers?
28. What is virus?
29. What is worms?
30. How virus is different from worms?
31. Which technology is used to identify our finger prints and sound?
32. What option does a user have when unwanted program are detected?
33. What is Artificial Intelligence?
34. Who is regarded as the "Father of artificial intelligence"?
35. When Artificial Intelligence was invented?
36. Which was the first language developed first for Artificial Intelligence?

37. Which language is used to give the commands to robots?
38. What are the different branches of Artificial Intelligence?
39. What are the different fields where AI is being used?
40. What important role is played by AI in computer science?
41. Which game is developed to help children understand AI through play.
42. What are different roles are played by AI in the field of Music?
43. What are different roles are played by AI in the field of Aviation?
44. Computers cannot replace humans in certain fields why?
45. What is Planner?

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**Economics**

- 1) What are the difficulties faced by small farmers in arranging capital in comparison with medium and large farmers?
- 2) Is palampur a developed village? Explain by presenting four arguments.
- 3) Explain four efforts that can be made to increase non-farming production activities.
- 4) Modern farming methods require the farmers to invest more cash than before. Why? Explain
- 5) What are the major disadvantage associated with HYV seeds? Explain
- 6) What is green revolution? Which crop is benefitted the most due to green revolution?
- 7) Who provide labour for farming in palampur? How are they paid for their work?
- 8) What is the difference between multiple cropping and modern farming method?
- 9) Which capital can be considered as the best land, Labour, physical capital or human capital and why?
- 10) What is land? Suggest any three ways to sustain land.

**Geography**

1. Mention the latitudinal extent of India Explain its significance.
2. What is the longitudinal extent of India? What is its implication?
3. Why do we need standard meridian?
4. Which Indian States border three countries?
5. Name Indian States have common frontiers with our neighboring country Bhutan?
6. State any ten features of the Himalayan Mountains.
7. State any three differences between the Himadari range and Shiwalik range.
8. Write the formation of Himalaya Mountain.
9. What is tectonic plate? Write its names.
10. Write the name of highest mountain of Bihar.

**History**

1. Explain the social condition of France before French revaluation
2. Discuss the role of women of France during French revaluation
3. Explain the rise and downfall of Napoleon Bonaparte.
4. Explain the impact of French Revolution



5. In which year slavery was finally abolished in French?
6. In which year French women got right to vote?
7. Explain these
  - (i) Tithe
  - (ii) Taille
  - (iii) Clergy
  - (iv) Republican form of Government
  - (v) Treason
8. Explain the role of French philosophers towards French Revolution.
9. Explain the composition of Estate General which was called on 5<sup>th</sup> May 1789.
10. Why the period from 1793 to 1794 is called Reign of Terror?

### Civics

1. Name the country where women are not allowed to take part in the election?
2. Who is the president of Zimbabwe?
3. What is PRI?
4. By whom the president of china appointed?
5. What amendments did prvez musharraf bring in the constitution of Pakistan by issuing a legal frame work order?
6. "Some countries are not ready to give voting rights to its citizens". explain.
7. How is the dignity of citizen enhanced in democracy?
8. How does democracy allow us to correct its own Mistake?
9. Who was Robert Mugabe?
10. Write any five arguments against democracy?
11. Is it good to elect a president for life or is it better to hold regular election after every five years? Give reasons.

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Sub. : **Science**

Class: **IX<sup>th</sup>**

**Answer these questions**

- Q1. Give reasons for the following observations?  
a) A Gas completely fills the vessel in which it is kept.  
b) A gas exerts pressure on the wall of the container.
- Q2. A sample of water under study was found to boil at  $102^{\circ}\text{C}$  at normal temperature and pressure. Is the water pure? Will this water freeze at  $0^{\circ}\text{C}$  comment.
- Q.3. Distinguish between  
(a) Evaporation & Boiling  
(b) Diffusion & Osmosis.
- Q4 How is prokaryotic cell different from eukaryotic cell?
- Q.5. Who gave the term Golgi Apparatus? Name one cell organelles that is formed by golgi Apparatus. Write its two function.
- Q.6. What is Endoplasmic reticulum? Name the two types of ER. Write its main function.
- Q.7. Differentiate between nucleoplasm & cytoplasm.
- Q.8. Obtain relation graphically :-  
(i)  $v^2 = u^2 + 2as$   
(ii)  $s = ut + \frac{1}{2} at^2$
- Q.9. Distinguish between uniform and non-uniform motion.
- Q.10. What term is used to denote the change of velocity with time? Write its S.I. units.
- Q. 11. What do you meant by force?
- Q.12. What do you meant by circular motion and uniform circular motion?
- Q.13. Distinguish between distance and displacement.
- Q.14. Draw the velocity- time graph for uniform motion.
- Q.15. Draw the velocity- time graph for uniform acceleration.
- Q.16. Draw the position- time graph for uniform motion.
- Q.17. Draw the velocity- time graph for uniform retardation.
- Q.18. How can you calculate the magnification of microscope?
- Q.19. Why plasma membrane is called selective permeable membrane?
- Q.20. What are the functions of nuclear membrane and nucleolus?
- Q.21. Why are lysosomes known as suicidal bag?
- Q.22. Draw a labeled diagram of plant cell.
- Q.23. The melting point of three solid X, Y, and Z are 298K, 310K, and 400K respectively. Arrange these in increasing order of their inter particle force of attraction.
- Q.24. Why does the level of water does not change when sugar is dissolved in it?
- Q.25. State one property of solid which liquid does not possess and one property of liquid which solid does not possess.
- Q.26. Water as ice has cooling effect where as water as steam may cause sever burn, explain.

*ALL THE BEST*

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Sub. : **English**

Class: **IX<sup>th</sup>**

1. Answer the following questions.

(i) Margie thought the schools of the past were more fun. Describe the difference between the two.

(ii) How is the poem 'The Road Not Taken' about the choices one makes in one's life?

(iii) What tells you that the child was curious and playful? Give examples from the story to support your answer.

(iv) What happened when the pullao was served at lunch time?

(v) Why did Grandfather have to sell Toto back to the Tonga-driver? Write a detailed answer.

2. Write summery of the poem 'The Road Not Taken'.

3. Describe any poet or author who has inspired you in life.

4. Describe the school fete that was held in your school premises

5. You are Sonali/Sohan of class IX living in a hostel in Gwalior. Write a letter to your mother describing how you prepared a snack for yourself for the first time in your room. (100 Words)

6. Government has started the Ladali scheme in the government schools to encourage education of the girls. Write an article about the scheme and its benefits not only for the girls but also for the society. (120 words)

7. Tarun decided to write a story but after some time, he couldn't complete the story as he lost interest. Complete his story on the basis of the beginning given below.

"Once upon a time, the lion, the king of the forest, was celebrating his son's birthday. All the animals and birds of the forest were to participate in the grand function....."

आचार्यश्री सुदर्शनकृष्णानिकेतन पटना

सत्र-- 2018-19

ग्रीष्मावकाश कालीन गृहदत्त कार्य

वर्ग-----नवम

विषय---

हिंदी

- 1) समाज में आर्थिक असमानता के क्या कारण हैं और उसका क्या परिणाम होता है? 'दुख का अधिकार' पाठ के आधार पर उत्तर लिखिए।
- 2) 'ग्रीष्मऋतु' पर एक अनुच्छेद लिखिए।
- 3) भारत सरकार के 'स्वच्छता अभियान' की जानकारी देते हुए छोटे भाई को एक पत्र लिखिए।
- 4) 'प्रधानमंत्री उज्ज्वला योजना' से ग्रामीण महिलाओं के जीवन में क्या परिवर्तन आएगा, इसकी चर्चा करते हुए वर्ग शिक्षक और वर्गनायिका के बीच का संवाद लिखिए।
- 5) अपनी रुचि का कोई चित्र अपनी कॉपी में चिपकाकर उस पर आधारित कहानी लिखिए।
- 6) निम्नांकित शब्दों के वर्ण विच्छेद कीजिए--  
समुज्ज्वला , क्षमाशील, अश्रुपूर्ण, संतुष्ट, भानूदय, प्रार्थना, शेषांक
- 7) रैदास अथवा रहीम के चित्र अपनी कॉपी में चिपकाकर उनके बारे में दस -पन्द्रह वाक्य लिखिए ।

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Sub. : **Maths**

Class: **IX<sup>th</sup>**

**[Number System]**

1. Express each of the following g as a fraction in simplest form.

i) 0.57

ii) 0.245

2. Represent  $\sqrt{6.2}$  on a number line.

3. If  $\frac{4+3\sqrt{5}}{4-3\sqrt{5}} = a+b\sqrt{5}$ . Find the value of a and b.

4. If  $x = (2+\sqrt{3})$ , find the value of  $(x^2 + \frac{1}{x^2})$ .

5. Prove that :

$$\frac{1}{3-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-2} = 5$$

6. If  $x = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$ ,  $y = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$ , find the value of  $x^2 + y^2$

7. Prove that  $(\frac{81}{16})^{-3/4} \times [(\frac{25}{9})^{-3/2} \div (\frac{5}{2})^{-3}] = 1$

8. If  $\sqrt{2} = 1.41$  and  $\sqrt{5} = 2.24$ . find the value of  $\frac{3}{8\sqrt{2}+5\sqrt{5}} + \frac{2}{8\sqrt{2}-5\sqrt{5}}$

9. simplify :  $\frac{1}{(27)^{-1/3}} + \frac{1}{(625)^{-1/4}}$

10. Find the smallest of the numbers

$$\sqrt[3]{6}, \sqrt[6]{24} \text{ and } \sqrt[4]{8}$$

11. Evaluate  $(4\sqrt{3} - \sqrt{2})(3\sqrt{2} + 2\sqrt{3})$

12. Find the value of  $\frac{2-\sqrt{3}}{\sqrt{3}}$ . It is given that  $\sqrt{3} = 1.732$

13. Rationalize :  $\frac{5-\sqrt{6}}{5+\sqrt{6}}$

14. Find an irrational number between  $\sqrt{2}$  and  $\sqrt{3}$ .

15. Find the value of  $64^{-1/3} (64^{-1/3} - 64^{-2/3})$

### **[Polynomials]**

1. Find the remainder when  $f(x) = 12x^3 - 13x^2 - 5x + 7$  is divided by  $(3x + 2)$

2. The polynomials  $(ax^3 + 3x^2 - 3)$  and  $(2x^3 - 5x + a)$  when divided by  $(x - 4)$  leave the same remainder. Find the value of  $a$ .

3. The polynomial  $f(x) = x^4 - 2x^3 + 3x^2 - ax + b$  when divided by  $(x - 1)$  and  $(x + 1)$  leaves the remainders 5 and 19 respectively. Find the values of  $a$  and  $b$ . Hence find remainder when  $f(x)$  is divided by  $(x - 2)$ .

4. Without actual division, prove that  $(2x^3 - 6x^2 + 3x^2 + 3x - 2)$  is exactly divisible by  $(x^2 - 3x + 2)$ .

5. If  $(x^3 - ax^2 - bx + 6)$  has  $(x-2)$  as a factor and leaves a remainder 3 when divided by  $(x-3)$ , find the values of  $a$  and  $b$ .

6. Factories :-

i)  $(2x-3)^2 - 8x + 12$

ii)  $x^2 + \frac{1}{x^2} - 2 - 3x + \frac{3}{x}$

7. Factories :-

i)  $(a+b)^3 - a - b$

ii)  $X^2 - y^2 + 6y - 9$

8. Factories :-

i)  $4\sqrt{3x^2+5x}-2\sqrt{3}$

ii)  $2(x+y)^2-9(x+y)^{-5}$

9. Factories :-

$$2x^2 + y^2 + 8z^2 - 2\sqrt{2}xy + 4\sqrt{2}yz - 8xz$$

10. Factories :-

$$2\sqrt{2} a^3 + 16\sqrt{2} b^3 + c^3 - 12abc$$

11. Factories :-

$$(5a-7b)^3 + (7b-9c)^3 + (9c-5a)^3$$

12. Prove that :-

$$x^3 + y^3 + z^3 - 3xyz = \frac{1}{2} (x + y + z)[(x-y)^2 + (y-z)^2 + (z-x)^2]$$

13. Show that  $(3x-2)$  is a factor of  $3x^3+x^2-20x+12$ .

14. If  $x^2 + \frac{1}{x^2} = 83$ , find the value of  $x^3 - \frac{1}{x^3}$ .

15. Factories :  $x^2 + \frac{1}{6}x - \frac{1}{6}$