

SHREE SANATAN DHARM EDUCATION CENTRE

CLASS – IX

WINTER VACATION HOMEWORK

SESSION 2017-18

English-

1. After introspection list your areas of improvement. What measures would you like to take to improve? Make a diary with the left pages of your last year's notebook and write in it. Show your creativity by making an impressive cover page.

Refer to Unit 6 – Children Page 127, also do page 109-144

2. Write 2 articles/stories for your school magazine. Choose from topics sent for the same on TENO. Write on plain sheets to submit.
3. Do units 1-5 from the workbook.

हिन्दी - अभ्यास- २ प्रश्नपत्र-२(द्वितीय सत्र) पेज नं० ३३५, - अभ्यास- २ प्रश्नपत्र-२(द्वितीय सत्र) पेज नं० ३३८
(दयाकरा की पुस्तक का)

Science- Solve sample paper in the separate ruled sheets.

Social Science – Map work & Diagrams

Map Work

On the Political Map of India locate and label the following:-

- i) Standard Meridian of India
- ii) Shade the states through which the tropic of cancer passes
- iii) Konkan coast & Malabar coast
- iv) Thar Desert, Karakoram range
- v) The Cardamom hills
- vi) Lakes – Hirakund & Pulicat
- vii) Rivers – Ganga, Yamuna, Godavari
- viii) The direction of SW monsoon
- ix) Direction of Western Cyclones
- x) Ranganathittu Bird sanctuary

Diagrams

- i) Dendritic and Trellis drainage pattern
- ii) Rain shadow area

Maths

R.S. Agarwal – SAI-Sample paper I, SAII-sample paper I (to be done in ruled sheets)

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Sample Question Paper-FIT

Class-IX

Duration:3 hrs

Section- A

1. Sahil has taken a dial-up Internet connection. Alongwith the connection, he has been provided a box which is connected with his computer. He is very much curious about the name of that box. What could be the name of that box? (1)
2. How do you create speaker note pages that show the slides, related notes and your company logo on each page? (1)
3. When setting transition effects for all slides in a presentation, which view would be best suitable? (1)
4. Which option can be used to set custom timings for slides in a presentation? (1)
5. Which tab provides you, options like animation scheme, custom animation, slide transition? (1)
6. Word processor automatically moves the text to the next line, when it reaches the right edge of the screen. What does this feature call? (1)
7. Which tag has the AutoSum feature? (1)
8. What will be the cell reference for cell range of G2 to M12? (1)
9. Write down the keyboard shortcut for creating a chart from the selected cell range. (1)
10. Within the office package, which software contains rows and columns? (1)
11. Irish wants to group non-contiguous worksheets. How she can do this? (1)
12. How will you create a bar diagram? (1)
13. What do you call the chart that shows the portions of how one or more data elements relate to another data element? (1)
14. How can you highlight text without using the mouse? (1)
15. Your company has a graphic file containing your logo. You use it all the time in many types of documents. Is there a simple way to insert this graphic in any document? (1)
16. How many different documents can you open at one time? (1)
17. Simon has placed the insertion point in the middle of a paragraph and started typing. But the new text deletes existing text. What is the problem and how will he fix it? (1)
18. How will you save an existing document with a different name? (1)
19. What would you see while spell checking the phrase "My father was write"? (1)
20. In the following list, which is not an ethical issue involved with the usage and availability of information?
Plagiarism, Security of information, Photocopy, Stealing a mouse (1)
21. Define the term piracy. (1)
22. "With the increasing importance of information in today's world, security has become an important issue". With respect to the above statement, give the meaning of the term security. (1)
23. Information and other resources can be modified only by those users, who have the authority of doing so. Under which ethical issue, the above restriction is ensured? (1)
24. What is meant by hacking? (1)
25. What is an multimedia application? (1)
26. Which shortcut key is used to insert a new slide in current presentation? (1)
27. Differentiate between bluetooth technology and infrared wireless technology. (1)
28. What is the function of Preview/Play button in custom animation? Explain briefly. (1)
29. Shilpa has added an image in a slide. She wants to insert text with it. The image is very dark therefore the text cannot be read properly. Which feature should she add to the image in order to convert it into a background that will display the text clearly? (1)
30. What is a cell and how is it referred? (1)
31. What are the purposes of Pie chart? (1)
32. Explain intellectual property. How is it categorised? (1)
33. Differentiate between MAN and PAN network. (1)
34. Carefully read the news articles given below. What has the writer of the second article done? What should be done to avoid such a situation? (1)

Daily News, August 26, 1997: Sheep rearing (original)

"The sheep was put on its back and pinned it between the workers legs. Then, reaching for his clippers, he went to work."

Network News, December 16, 2010 : Ladakh Sheep rearing

"With a little persuasion, the worker pulled the sheep onto its back and pinned it between his legs. Then, reaching for his clippers, he went to work."

35. Ms. Meeramani has recently joined a construction company as Marketing Executive. She saw a presentation about the company. She however is not satisfied with it and wants to make some changes in it. Using your presentation skills, suggest the features to accomplish the following changes: (5)

- (i) Add the company's logo (stored as a file on her computer) on the first slide.
- (ii) Add audio to each slide to explain the content of the slide.
- (iii) Add an effect while shifting from one slide to another during a slide show.
- (iv) Connect Slide 4 to Slide 9 directly.
- (v) Add slide numbers automatically at the bottom of each page.

36. Give the following answers with respect to spreadsheet: (5)

- (i) Cell A1 contains the number 20 and B1 contains 3. What will be the contents of cell C1, if the formula = A1 + B1 * 2 * 3 is entered in cell C1?
- (ii) The contents of Cell A1, B1, C1, and D1 are 10, - 20, 30 and - 40 respectively. What will be the value displayed in cell E1 which contains the formula = MIN (A1:D1)?
- (iii) Cell D3 contains the formula = \$B\$3 + C3 and this formula is copied to cell E3, what will be the copied formula in cell E3?
- (iv) If the formula in the cell A2 is = + B2 + C2. On copying this formula to A3, the formula in cell A3 will be.
- (v) The formula in the cell A1 is = +\$B\$3 * 6. When we copy this formula to cell A5, what will be the respective formula?

37. Mr. Pankaj Shah has written a letter, which he wants to send to 4 companies. (5)

UVW & Company

R/457, Tonk Road, Jaipur (Rajasthan)

Date 3-Oct-2013

<company_name>

<AddressLine>

Dear Sir,

It is for your kind of information that the <material> ordered by you are now available with us in sufficient stock. We would like to convey our sincere apology for not supplying the clothes earlier as the factory was closed due to heavy rains in Gujarat.

Please accept our sincere apologies for the delay in delivery and we are thankful to you for your kind patience.

Yours very truly,

Pankaj Shah

Sales Executive

Observe the above letter and answer the question from (i) to (iv).

- (i) Pankaj wants to send the letter with same content to 4 companies with similar request. The addresses of all such companies alongwith corresponding requirements are stored in a separate document. Name the feature, which will help him to achieve the same.
- (ii) Name two files that Pankaj has to use to be able to send letters to all the companies.
- (iii) Identify the placeholders/merge fields in the given document.
- (iv) Pankaj wants to keep a record of all the changes that he makes in this document. Name the feature used to achieve the same.

38. Name and explain any five components of a chart in a spreadsheet package. (5)

39. Tariq Fashions maintain their employee salary details in a spreadsheet as shown below. A sample data of 7 employees is shown below. Write formulas for the operations (i) to (v) and answer the questions (vi) to (viii) based on the spreadsheet given below alongwith the relevant cell address: (1)

Sr No	NAME	BASIC	HRA	DA	PF	NET SALARY
1	Surinder	50000	30000	-	600	-
2	Kanika	56000	20000	-	600	-
3	Aashish	35000	15000	-	400	-
4	Harjit	45000	15000	-	500	-
5	Ashjit	60000	25000	-	700	-
6	Jyoti	75000	30000	-	700	-
7	Amita	25000	10000	-	300	-
8	Maximum					-
9	No. of Emp					-

- (i) To calculate the DA as 25% of BASIC+HRA for each employee and display in column E.
- (ii) To calculate the NET SALARY as BASIC+HRA +DA+PF for each employee and display in column G.
- (iii) To find the maximum NET SALARY and display in cell G9.
- (iv) To count the number of employees and display in cell C10.
- (v) The Manager wants to know, how many employees from the above data are eligible for bonus. The criteria being that the employees having a salary greater than 45000 are not eligible for bonus. Write the formula, the Manager should use for achieving the same and display the number of employees in cell G10.
- (vi) The manager realises that he has forgotten to add the Sr No column in the above spreadsheet. Which feature will help him automate the typing of sequential numbers?
- (vii) The manager wants to graphically represent a comparative analysis of the salaries of employees. Suggest the most suitable chart type for achieving the same.
- (viii) If the Basic salary of an employee changes, will the manager have to redo all the calculations for that particular employee? Explain.

Section- B

(1 Mark Each)

Choose the Appropriate Option.

40. The Principal of Akshar Vidya Primary School has employed Vijay Kumar to enter marks of all the students in each examination in a result processing software. What is the designation of Vijay Kumar?

(a) Data Entry Operator	(b) Digital Content Manager
(c) Web Designer	(d) Programmer
41. Sumiddhi is logging in to her gmail account and one of her friends is trying to peep in and figure out her password. Which of the following issues is being infringed?

(a) Plagiarism	(b) Privacy
(c) Intellectual Rights	(d) None of these
42. In a presentation document, in order to type '2' in the mathematical expression $A.X^2 + B.X + C = 0$, which one of the following options you would use?

(a) Insert Clipart	(b) Subscript
(c) Italics Style	(d) Superscript
43. In a presentation, Sachin has to change all occurrences of the word 'Calcutta' with 'Kolkata'. Which one of the following options is most appropriate to do this task?

(a) Copy & Paste	(b) Find & Replace
(c) Cut & Paste	(d) All of these
44. Members of 'Nibbles & Bytes', the computer club of a school wants to prepare and print Participation Certificate for all the participants in their annual interschool symposium using a spreadsheet, where the details of the participating students alongwith the events and schools are entered.

Which of the following office techniques is most appropriate to get the desired results?

(a) Copy & Paste	(b) Find & Replace
(c) Mail Merge	(d) Cut & Paste
45. Rehman is making his Science Project Presentation on 'Sustainable Development' using presentation software. He wants to add the phrase 'Sustainable Development' at the top of each page. Which option he should use?

(a) Footer	(b) Header
(c) Watermark	(d) Bullets
46. A student wants to create a 'Digital Story Teller' on the famous storyline 'Rabbit & the Tortoise'. He has downloaded some images of Rabbit, Tortoise and Forest. He wants to add background music, voice and animation. Which one of the office tool he should use?

(a) Word Processing Software
(b) Presentation Software
(c) Spreadsheet Software
(d) Database Management System
47. Which of the following actions can be performed in Slide Sorter view of a Presentation Tool?

(a) Rearranging Slides
(b) Deleting Slides
(c) Make global changes to several slides at one time
(d) All of the above

48. In Presentation Tool, the entry effect as one slide replaces another slide in a slide show is called
- (a) animation (b) slide transition
(c) custom animation (d) rehearse timings
49. Tanya has made a presentation on 'Global Warming'. She wants to progress her slide show automatically while she speaks on the topic in the class
- (a) Custom Animation (b) Rehearse Timings
(c) Slide Transition (d) Either (a) or (b)
50. Computer Teacher of 'Shanti Education School' wants to graphically analyse the performance of her students over the last three Computer Tests. Which one of the following office tools she should use to get graphical report in most effective manner with minimum effort?
- (a) Word Processing Software (b) Presentation Software
(c) Spreadsheet Software (d) Database Management System
51. Marks Scored by students in a class are entered in a spreadsheet alongwith their names as follows:

Name	Marks
Aman	445
Rahman	432
Anita	456
Amisha	421
Gorge	442
Fatima	487

If we want to have a Merit List of these students [i.e. student's marks appearing in descending order with corresponding names], which one of the following options will accomplish this task in one go?

- (a) Copy and Paste (b) Reverse
(c) Search (d) Sort
52. In a spreadsheet, the following reference changes rows and columns automatically, when it is copied to a new cell.
- (a) Relative Reference (b) Absolute Reference
(c) Mixed Reference (d) All of these
53. The AutoFill feature in a spreadsheet
- (a) Extends a sequential series of data
(b) Automatically adds a range of cell values
(c) Applies a border around the selected cells
(d) Fills the selected cells with a background color
54. It is an offence as per Cyber Laws to use a software without paying the License Fee to the Copyright Owner Company, if that software belongs to the class of
- (a) Shareware (b) Freeware
(c) Open Source (d) Proprietary Software
55. Samniza, who was born in 1995, is thinking of a password for her online bank account. Which one of the following you would suggest for strengthening the security of her account?
- (a) sam95 (b) a99p54c66
(c) samniza1995 (d) sam1995
56. Internet can be used for
- (a) downloading (b) research
(c) chatting (d) All of these
57. Which one of the following is not an advantage of networking?
- (a) Software Sharing (b) Security
(c) Internet Sharing (d) Dependence on electricity

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MODEL QUESTION PAPER

Time: 3 hours

Max. Marks: 80

General Instructions:

- (i) The question paper comprises of two sections, A and B. You are to attempt both the sections separately.
- (ii) All questions are compulsory. However, an internal choice is provided in two questions of 3 marks each and one question of five marks.
- (iii) Question numbers 1 to 2 in section A are one mark questions. These are to be answered in one word or in one sentence.
- (iv) Question numbers 3 to 5 are two marks questions. These are to be answered in about 30 words each.
- (v) Question numbers 6 to 15 are three marks questions including a value-based question. These are to be answered in about 50 words each.
- (vi) Question numbers 16 to 21 are five marks questions. These are to be answered in about 70 words each.
- (vii) Question numbers 22 to 27 are explanatory questions based on practical skills and each question carries two marks.

SECTION - A

1. Write the boiling point and freezing point of water in Kelvin scale.
2. Name two Indian breeds of cow.
3. Write two drawbacks of Rutherford's model of an atom.
4. A metallic block of 6 kg is dropped into a water tank. The volume of the block is given to be $3 \times 10^{-3} \text{ m}^3$ and density of water is 10^3 kg/m^3 .
Find: (a) buoyant force on the block.
(b) density of the metallic block.
5. A horse and a dog are running with the same speed. If the weight of the horse is 10 times the weight of the dog, what is the ratio of their kinetic energies?
6. Give reason for the following observations:
 - (a) We can get the smell of perfume sitting meters away.
 - (b) A wooden table is considered as a solid.
 - (c) Gases completely fill the vessel in which they are kept.
7. Using a flow chart show the process of obtaining different gases from air.

OR

- What is chromatography? Mention its two applications.
8. Describe the role played by lysosomes. Why are these termed as suicidal bags? How do they perform their function?
 9. How can we prevent exposure to:
 - (a) air borne infections?
 - (b) water borne infections?
 - (c) vector borne infections?
 10. A truck of mass 1800 kg is moving with a speed of 54 km/h. When brakes are applied it stops with uniform negative acceleration at a distance of 200 m. Calculate the force applied by the brakes of the truck and the work done before stopping.
 11. What is meant by acceleration due to gravity? Explain the variation in its value when an object moves from poles to the equator of earth. What effect will this variation have on the weight of a mass of 500 kg on poles and at equator?

OR

- Suppose the mass of the earth somehow increases by 10% without any change in its size, what would happen to your weight? Suppose the radius of the earth becomes twice of its present radius without any change in its mass, what will happen to your weight?
12. Write full form of acronym SONAR. How is the method of echo-ranging used to determine the depth of the sea?
 13. A news item, telling about mysterious disease affecting people of nearby village, inspired Rahul to find out the cause behind it. On investigation, he discovered that the only source of water for the village is a small river on whose banks three paper factories are situated. Rahul along with villagers made efforts and got those factories closed.
 - (a) What values are promoted by Rahul?
 - (b) What role should the government play in protecting the environment?
 - (c) Do you identify with the cause Rahul fought for?

14. List two forms of oxygen found in the atmosphere. Name the process(s) by which:
- oxygen from the atmosphere is used up.
 - oxygen is returned to the atmosphere.
15. (a) A student visited a fish farm where he found Catla, Rohu, Mrigals, Common Carps and Grass Carps cultured in the same pond. Name the type of fish farming observed by the student.
- Mention the advantages of such farming system.
 - What is the main problem in such fish farming? How do farmers overcome such problems?
16. State the law of conservation of mass in a chemical reaction. Describe an activity that can be used to verify this law.

17. (a) The description of atomic particles of two elements X and Y is given below.

	X	Y
Protons	8	8
Neutrons	8	9
Electrons	8	8

- What is the atomic number of Y?
 - What is the mass number of X?
 - What is the relation between X and Y?
 - Which element/elements do they represent?
 - Write the electronic configuration of X.
 - Write the cation/anion formed by the element.
- (b) Which of the following are isotopes and which are isobars?

Argon, Protium, Calcium, Deuterium

Explain why the isotopes have similar chemical properties but they differ in physical properties.

18. (a) Give reason for the following:

- The cells of meristematic tissue have dense cytoplasm, thin walls and prominent nuclei.
 - Vacuoles are absent in the cells of this tissue.
- (b) Identify the type of meristem present in the following:
- At the base of leaves
 - Girth of stem increase due to this
 - Increases the length of the stem

OR

Give a brief account of the chief tissues in animals.

19. Sponges have 'holes' all over the body. When passed through a sieve, they segregate themselves. What can you conclude from the above, regarding their body design? Which group do they belong and what is the significance of holes to these animals? Also state how they protect themselves.
20. (a) State Newton's second law of motion. How can this law be used to measure force acting on an object?
- (b) From a rifle of mass 4 kg, a bullet of mass 50 g is fired horizontally with an initial velocity of 40 ms^{-1} . Calculate the initial recoil velocity of the rifle.
21. Define potential energy. Derive an expression for the gravitational potential energy of an object of mass 'm' at a height 'h' above the earth's surface.
- A ball of mass 0.25 kg is moving horizontally with a uniform velocity of 25 ms^{-1} . Calculate the kinetic energy possessed by the ball.

SECTION-B

22. Three solutions A, B and C were filtered. Solution A passed through the filter paper and the filtrate was clear. Solution B passed through the filter paper and the solution was translucent. Solution C left residue on the filter paper while the filtrate was clear. What is the relative size of solute particles in solutions A, B and C?
23. A student noted down the following precautions for the experiment "To verify the law of conservation of mass in a chemical reaction."
- The spring balance should be held vertical while in use.
 - Before making use of the spring balance it must be ensured that its pointer is at zero mark.
 - The reading of the balance should be noted only when its pointer comes to rest.
 - Mixing of two solutions should be done quickly.
 - Chemical reaction should be exothermic.
- Which precautions need modifications?

24. A student was asked to select the monocots from the seeds of the following— maize, black gram, peanut, wheat. Which seeds should the student choose?
25. You are viewing a prepared slide of striped muscle fibres from cockroach's leg. When you focus the microscope, the striation appears pale and indistinct. What would you do to make the striations clearly visible?
26. What will happen if we place the porous surface at the back of the hollow tubes in the experimental set-up of reflection of sound?
27. In the given figures, the volumes of water in the jar, before and after immersing the solid is shown. The readings in the Fig. (i) corresponding to the lowermost point and uppermost point of the meniscus is 23 mL and 24 mL, similarly in Fig. (ii) the readings are 28 mL and 29 mL respectively. What is the volume of the solid immersed?

