

D.A.V PUBLIC SCHOOL, MAHUDA

Summer Vacation Home work,2021

Class-IX. Sub-Maths

Ch-1 Number systems

Solve Ex.-1.2 to Ex-1.5

Project-Make a square root spiral by paper cutting and pasting

Ch-2 Polynomials

Solve- Ex.2.2 to Ex.-2.5

Project/activity- Write all types of polynomials with suitable examples and also write its degree.

Ch- Lines and Angles

Solve Ex.-6.1 and Ex-6.2

SUMMER VACATION HOMEWORK,2021*

Class- IX

Subject- Art and craft

Paint a glass vase by using any medium like gloss paint,clay,Plaster of Paris,etc.

Make 5 different flowers using watercolour in copy

SUMMER VACATION HOMEWORK, CLASS-IX,
SST, 2021-22

1.HISTORY-Learn ch -1

2.CIVICS- a)Explain why Pakistan under Pervez Musharraf,Zimbabwe under Robert Mugabe and China cannot be called a Democratic country.

b) Write down in the copy about the MLA and MP of your Constituency (Give proper detail such as which party they belong to,What action has been taken by them to develop your surroundings etc

Economic:- Chapter 1 picture 1.4 :- Draw and Inlist any five importance and drawbacks if modern farming.

Geography :- Map

1) Three parallel ranges of the Himalayas

2) Western Ghats, Eastern Ghats and Nilgiri

3)Northern Plains of India with three greater divisions

4) Eastern Coastal plains and Western Coastal plain

Summer Vacation H.W. of Chemistry*

1. Learn all reasoning questions of Ch-1 and Ch-2

2. Practice all activities of physical methods of separating mixtures given in Ch-2

3. Complete all exercise questions of Ch-1 and Ch-2(after summer vacation your copies will be checked)

Summer vacation Home work

Sub-Physics

Std 9

Practice equations of motions 5 times

Solve 10 numerical from motion

Draw d_t & $v-t$ graph

SUMMER VACATION HOMEWORK ,2021*

Class- IX.

Subject- English

A. ANSWER THESE SHORT QUESTIONS

1. What kind of pages did the book have? (The fun they had)
2. What did Margie put into the slot with a sigh?
3. Where did the road diverse? (The road not.....)
4. Which thing had the poet kept for another day?
5. Why was learning music a great challenge for Evelyn Glennie?
6. When did she decide to learn music?
7. What does the poet ask the wind?
8. What does the wind break?
9. Why did Kezia make a pin-cushion?
10. What did Albert Einstein love to play with?

B. Make two sentences first affirmative/positive and then negative of the same Sentence for all types/kinds of tenses in a proper sequence.

e.g. Simple present

Positive: we work hard.

Negative: we do not/
don't work hard.

C. Complete the classwork copy upto the lessons taught and learn question answers of first two chapters of both the books 'Beehive' and 'Moments'.

Sub: Health and physical education.

Summer vacation Assignment.

Std. VI to X

Explain all the 12 poses of suryanamaskara with sketch/pictures and also write its benefits.

ग्रीष्मावकाश गृहकार्य

``(5/6/2021)

कक्षा - नौवीं `` hindi

निम्नलिखित पंक्तियों में निहित अलंकार को पहचान कर उनके नाम लिखिए -

- मुख बाल रवि-सम लाल होकर ज्वाल-सा बोधित हुआ।
- मनहुँ नीलमणि सैल पर, आतप पर्यो प्रभात।
- मैयाँ मैं तो चंद्र-खिलौना लैहों।
- मेघ आए बन-ठन के, सँवर के।
- है बसुंधरा बिखेर देती, मोती सबके सोने पर।

- सुनत जोग लागत है ऐसो, ज्यों करुई ककड़ी।
- चरण-कमल बंदी हरि राई।
- जा तन की झाँई परे श्याम हरित दुति होय।
- हिमकणों से पूर्ण मानो हो गए पंकज नए।
- तीन बेर खाती थीं वे तीन बेर खाती हैं।
- सहस्रबाहु सम सो रिपु मोरा।।
- आए महंत वसंत।
- कर का मनका डारि दे मन का मनका फेर।
- आगे-आगे नाचती गाती बयार चली।
- यह देखिए, अरविंद-से शिशुवृंद कैसे सो रहे।
- प्रीति नदी में पाँउ न बोरयो दृष्टि न रूप परागी।
- मखमल-सा झूला पड़ा हाथी-सा टीला।
- तेरी बरछी ने बर छीने हैं खलन के।
- घेर-घेर घोर गगन धाराधर ओ।
- दुख है जीवन-तरु के फूल।
- कर का मनका डारि दे मन का मनका फेर।
- मखमली पेटियों-सी लटकी, छीमियाँ छिपाए बीज लड़ी।
- नयन तेरे मीन से हैं।
- मुख मानो चंद्रमा है।
- एक रम्य उपवन था, नंदन वन-सा सुंदर।
- रघुपति राघव राजा राम। पतित पावन सीता राम।
- ना मैं देवल ना मैं मस्जिद ना काबे कैलास में।
- तारा-सी तरून तामें ठाढ़ी झिलमिली होति।
- आए महंत वसंत।
- मानहुँ विधि तन-अच्छ छवि स्वच्छ राखिदैं काज।
- पाहु न ज्यों आए हो गाँव में शहर के।
- चारू चंद्र की चंचल किरणें खेल रही हैं जल-थल में।
- बरसा रहा है रवि अनल, भूतल तवा सा जल रहा।
- रहिमन पानी राखिए बिन पानी सब सून।
- पीपर पात सरिस मन डोला।
- दृग-पग पोछन का करै भूषन पायंदाज।
- जो नत हुआ वह मृत हुआ ज्यों वृत से झरकर कुसुम ।
- मजबूत शिला सी दृढ़ छाती।
- अंबर पनघट डुबो रही तारा घट उषा नागरी।
- कोटि कुलिस सम वचन तुम्हारा।

Holiday homework for summer vacation

Class 9

Multiple Choice Questions

1. Which of the following can be made into crystal?

- (a) Bacterium
- (b) An Amoeba
- (c) A Virus
- (d) A Sperm

2. A cell will swell up if

- (a) The concentration of water molecules in the cell is higher than the concentration of water molecules in surrounding medium
- (b) The concentration of water molecules in surrounding medium is higher than water

molecules concentration in the cell

- (c) The concentration of water molecules is same in the cell and in the surrounding medium
- (d) Concentration of water molecules does not matter

3. Chromosomes are made up of

- (a) DNA
- (b) protein
- (c) DNA and protein
- (d) RNA

4. Which of these options are not a function of Ribosomes?

- (i) It helps in manufacture of protein molecules
 - (ii) It helps in manufacture of enzymes
 - (iii) It helps in manufacture of hormones
 - (iv) It helps in manufacture of starch molecules
- (a) (i) and (ii)
 - (b) (ii) and (iii)
 - (c) (iii) and (iv)
 - (d) (iv) and (i)

5. Which of these is not related to endoplasmic reticulum?

- (a) It behaves as transport channel for proteins between nucleus and cytoplasm
- (b) It transports materials between various regions in cytoplasm
- (c) It can be the site of energy generation
- (d) It can be the site for some biochemical activities of the cell

6. Following are a few definitions of osmosis

Read carefully and select the correct definition

- (a) Movement of water molecules from a region of higher concentration to a region of lower concentration through a semipermeable membrane
- (b) Movement of solvent molecules from its higher concentration to lower concentration
- (c) Movement of solvent molecules from higher concentration to lower concentration of solution through a permeable membrane
- (d) Movement of solute molecules from lower concentration to higher concentration of solution through a semipermeable membrane

7. Plasmolysis in a plant cell is defined as

- (a) break down (lysis) of plasma membrane in hypotonic medium
- (b) shrinkage of cytoplasm in hypertonic medium
- (c) shrinkage of nucleoplasm
- (d) none of them

8. Which of the following are covered by a single membrane?

- (a) Mitochondria
- (b) Vacuole
- (c) Lysosome
- (d) Plastid

9. Find out the false sentences

- (a) Golgi apparatus is involved with the formation of lysosomes
- (b) Nucleus, mitochondria and plastid have DNA; hence they are able to make their own structural proteins
- (c) Mitochondria is said to be the power house of the cell as ATP is generated in them.
- (d) Cytoplasm is called as protoplasm

10. Find out the correct sentence

- (a) Enzymes packed in Lysosomes are made through RER (rough endoplasmic reticulum)
 - (b) Rough endoplasmic reticulum and smooth endoplasmic reticulum produce lipid and protein respectively
 - (c) Endoplasmic reticulum is related with the destruction of plasma Membrane
 - (d) Nucleoid is present inside the nucleoplasm of eukaryotic nucleus
11. Which cell organelle plays a crucial role in detoxifying many poisons and drugs in a cell?
- (a) Golgi apparatus
 - (b) Lysosomes
 - (c) Smooth endoplasmic reticulum
 - (d) Vacuoles
12. The proteins and lipids, essential for building the cell membrane, are manufactured by
- (a) rough endoplasmic reticulum
 - (b) golgi apparatus
 - (c) plasma membrane
 - (d) mitochondria
13. The undefined nuclear region of prokaryotes are also known as
- (a) nucleus
 - (b) nucleolus
 - (c) nucleic acid
 - (d) nucleoid
14. The cell organelle involved in forming complex sugars from simple sugars are
- (a) endoplasmic reticulum
 - (b) ribosomes
 - (c) plastids
 - (d) golgi apparatus
15. Which out of the following is not a function of vacuole?
- (a) Storage
 - (b) Providing turgidity and rigidity to the cell
 - (c) Waste excretion
 - (d) Locomotion
16. Amoeba acquires its food through a process, termed
- (a) exocytosis
 - (b) endocytosis
 - (c) plasmolysis
 - (d) exocytosis and endocytosis both
17. Cell wall of which one of these is not made up of cellulose?
- (a) Bacteria
 - (b) Hydrilla
 - (c) Mango tree
 - (d) Cactus
18. Silver nitrate solution is used to study
- (a) endoplasmic reticulum
 - (b) golgi apparatus
 - (c) nucleus
 - (d) mitochondria
19. Organelle other than nucleus, containing DNA is
- (a) endoplasmic reticulum
 - (b) golgi apparatus

- (c) mitochondria
 - (d) lysosome
20. Kitchen of the cell is
mitochondria
- (b) endoplasmic reticulum
 - (c) chloroplast
 - (d) golgi apparatus
21. Lipid molecules in the cell are synthesized by
- (a) smooth endoplasmic reticulum
 - (b) rough endoplasmic reticulum
 - (c) golgi apparatus
 - (d) plastids
22. Cell arises from pre-existing cell was stated by
- (a) Haeckel
 - (b) Virchow
 - (c) Hooke
 - (d) Schleiden
23. Cell theory was given by
- (a) Schleiden and Schwann
 - (b) Virchow
 - (c) Hooke
 - (d) Haeckel
24. The only cell organelle seen in prokaryotic cell is
- (a) mitochondria
 - (b) ribosomes
 - (c) plastids
 - (d) lysosomes
25. Organelle without a cell membrane is
- (a) ribosome
 - (b) golgi apparatus
 - (c) chloroplast
 - (d) nucleus

Short Answer Questions

26. Why are lysosomes known as 'suicide-bags' of a cell?
27. Do you agree that "A cell is a building unit of an organism". If yes, explain why?
28. Why does the skin of your finger shrink when you wash clothes for a long time?
29. Why is endocytosis found in animals only?
30. A person takes concentrated solution of salt, after sometime, he starts vomiting. What is the phenomenon responsible for such situation? Explain.
31. Name any cell organelle which is non membranous.
32. We eat food composed of all the nutrients like carbohydrates, proteins, fats, vitamins, minerals and water. After digestion, these are absorbed in the form of glucose, aminoacids, fatty acids, glycerol etc. What mechanisms are involved in absorption of digested food and water?
33. If you are provided with some vegetables to cook. You generally add salt into the vegetables during cooking process. After adding salt, vegetables release water. What mechanism is responsible for this?
34. If cells of onion peel and RBC are separately kept in hypotonic solution, what among the

following will take place? Explain the reason for your answer.

- (a) Both the cells will swell.
- (b) RBC will burst easily while cells of onion peel will resist the bursting to some extent.
- (c) a and b both are correct.
- (d) RBC and onion peel cells will behave similarly.

35. Bacteria do not have chloroplast but some bacteria are photoautotrophic in nature and perform photosynthesis. Which part of bacterial cell performs this?

36. Match the following A and B

(A) (B)

- (a) Smooth endoplasmic reticulum (i) Amoeba
- (b) Lysosome (ii) Nucleus
- (c) Nucleoid (iii) Bacteria
- (d) Food vacuoles (iv) Detoxification
- (e) Chromatin material (v) Suicidal bag and nucleolus

37. Write the name of different plant parts in which chromoplast, chloroplast and leucoplast are present.

38. Name the organelles which show the analogy written as under

- (a) Transporting channels of the cell——
- (b) Power house of the cell——
- (c) Packaging and dispatching unit of the cell——
- (d) Digestive bag of the cell——
- (e) Storage sacs of the cell——
- (f) Kitchen of the cell——
- (g) Control room of the cell——

39. How is a bacterial cell different from an onion peel cell?

40. How do substances like carbon dioxide (CO₂) and water (H₂O) move in and out of the cell?

41. How does amoeba obtain its food?

42. Name the two organelles in a plant cell that contain their own genetic material and ribosomes.

43. Why are lysosomes also known as “scavengers of the cells”?

44. Which cell organelle controls most of the activities of the cell?

45. Which kind of plastid is more common in

- (a) roots of the plant
- (b) leaves of the plant
- (c) flowers and fruits

46. Why do plant cells possess large sized vacuole?

47. How are chromatin, chromatid and chromosomes related to each other?

48. What are the consequences of the following conditions?

- (a) A cell containing higher water concentration than the surrounding medium
- (b) A cell having low water concentration than the surrounding medium.
- (c) A cell having equal water concentration to its surrounding medium.

Long Answer Questions

49. Draw a plant cell and label the parts which

- (a) determines the function and development of the cell
- (b) packages materials coming from the endoplasmic reticulum
- (c) provides resistance to microbes to withstand hypotonic external media without bursting

(d) is site for many biochemical reactions necessary to sustain life.

(e) is a fluid contained inside the nucleus

50. Illustrate only a plant cell as seen under electron microscope. How is it different from animal cell?

51. Draw a neat labelled diagram of an animal cell.

52. Draw a well labelled diagram of an eukaryotic nucleus. How is it different from nucleoid?

53. Differentiate between rough and smooth endoplasmic reticulum. How is endoplasmic reticulum important for membrane biogenesis?

54. In brief state what happens when

(a) dry apricots are left for sometime in pure water and later transferred to sugar solution?

(b) a Red Blood Cell is kept in concentrated saline solution?

(c) the Plasma-membrane of a cell breaks down?

(d) rheo leaves are boiled in water first and then a drop of sugar syrup is put on it?

(e) golgi apparatus is removed from the cell?

55. Draw a neat diagram of plant cell and label any three parts which differentiate it from animal cell.

Summer Vacation Homework 2021-22 Std-IX

Sub- Information technology 402

Write an article on open office writer,topic is how you spent

summer vacation during lockdown period, and mail me at dimpledavmahuda30@gmail.com.

Note:- Text colour - blue

Alignment - justify

size-18

don't forget to put your, name,roll admission no class and section.

SANSKRIT

ग्रीष्म काल के अवकाश के लिए गृह कार्यम

तृतीयः पाठः----- गो दोहन म पाठ का प्रश्नोत्तर लिखें । भाषि के कार्यम--- शब्द रूपानी बालक, लता, साधु, मुनि, अस मद । धातु रूपानी--+ गम, भू, (पंच लकार मे) सेव --- लट लकार परियोजना कार्यम-- भारती वसन्त गीति पाठ के श्लोकों को अनव य के साथ लिखें ।