SGJ DAV SEN SEC PUBLIC SCHOOL, HARIPURA

Holidays Homework

Class 11th Session 2020-21

Subject : English

- **Holiday homework carries 100 marks**

- **Students will solve this assignment on notebook.**
- **Assignment 35marks**
- **Project & activity 35 marks**
- **Online tests 30 marks**

Parameters

- ✓ **Presentation**
- ✓ **Punctuality**
- ✓ **Coherence**

MM: 35MARKS

Questions for Practice: (ANY 1)

1. Compare and contrast the routine of the grandmother in the village with that of it in the city. (3marks)

OR

2. Khushwant Singh's grandmother was emotionally attached to him. Support the statement with help of instances from the story 'The Portrait of A Lady'.

Long Questions (ANY 2)

1. Bring out the spiritual elements in the character of the grandmother. (3marks)
2. What light does the lesson throw on Indian family values? (3marks)
3. Evaluate the writer's attitude towards his grandmother when he was a child. (3marks)

Writing Skills (ANY 3)

Article (3marks)

1. Internet is a window to global information. It has brought the distant parts of the world closer and made it a global village. Write an article on the "Craze for Internet among the modern Youth" and revolutionary change in the life of a common man, by using input from the following picture word (150-200).
2. From the time we get up till we go to bed we use gadgets to make our life more comfortable and leisurely. You are Sangeeta/Sandeep of Roop Nagar, Delhi : Write an article in (150-200) words.
3. Raj/Rajni is perturbed after reading a report about the miserable condition child Laboures inIndia inthe newspaper. She wants to express her strong feelings against the exploitation of children through an article to be published in his/her school magazine. (Word Limit : 150200)
4. You feel pained to notice that modern youth, the yuva generation now is aping western culture in dress, manners and life style blindly write an article against the aping of western culture by the younger generation in about (150-200) words.

2. **Read the following passage carefully and answer the question that follow:**
   (Select the correct answer for MCQ) (6 marks)
   INDIAN CLASSICAL DANCES
   What is a classical dance? A dance which is created or choreographed and performed according to the tenets of the Natya Shastra is called a classical dance.
   The two broad aspects of classical dancing are the tandava and the lasya. Power and force are typical of the tandava; grace and delicacy, of the lasya. Tandava is associated with Shiva, and lasya with Parvati. Dance which is pure movement is called nritta, and dance which is interpretative in nature is called nritya.
   A dancer in the classical tradition has to have years of training before he or she can begin to perform

on the stage.
What are the main schools of classical dancing?
The four main schools of classical dancing in India are:
Bharata Natyam, Kathakali, Manipuri, Kathak
Bharata Natyam is the oldest and most popular dance-form of India. Earlier, it was known by various names. Some called it Bharatam, some Natyam some Desi Attam and some Sadir. The districts of Tanjore and Kanchipuram of Tamil Nadu were the focal points in the development of Bharata Natyam. It was danced as a solo performance by devadasis (temple dancers) on all auspicious occasions. Later, kings and rich people lent their patronage to it and it started shedding its purely sacred character.
The dancer is directed by the natuvanar, who is a musician and, invariably, a teacher.
Another musician plays the cymbals. The music for Bharata Natyam is the Carnatic School of music. The mridangam (a drum), played on both sides with the hands, provides the rhythm.
The home of Kathakali is Kerala. Kathakali literally means 'story-play'. It combines music, dance, poetry, drama and mime. Its present form has evolved out of older forms such as Ramanattam and Krishnanattam.
Kathakali dance-dramas last from dusk to dawn. The artistes use elaborate costumes; mask-like make-up and towering head-dresses. The dancers are all males - female roles are usually played by boys. There is no stage - a few mats are spread on the ground for the audience to sit on. The only 'stage-lighting' is a brass lamp fed with coconut oil.
Two singers provide the vocal music. The chenda, a large drum, which is beaten on one side with two slender curved sticks, is an integral part of the Kathakali performance. A metal gong, a pair of cymbals and another drum complete the orchestra. Besides providing the beat, they are also the means by which all the sound-effects are created.
Manipur, in the north-east is the home of Manipuri. It has evolved out of the folk dances of the land, which are religious in nature. Lai Haroba is the oldest dance-drama of Manipur and is based on folk-lore and mythology. But Ras Leela is the most popular one. It tells of the legendary love of Radha and Krishna. In the Manipuri style of dancing, the accent is on grace and softness. The women's costumes are extremely picturesque.
Besides the singers, the khol, the manjira and the flute also accompany the dancers.
Kathak has its home in north India. 'Kathak' means 'story-teller'. In ancient times, the storyteller used gestures and movements while narrating the great epics. In course of time it became an elaborate art, rich in beautiful movements and facial expressions.
Later, under the Persian influence, the original dance form underwent many changes, gradually losing its religious and moral character. It became a court dance. Both men and women danced.
With the passing of years, the Kathak performance was reduced to being an evening's entertainment, and the girls, who danced, were no more than pretty entertainers.
Kathak, however, was revived under the patronage of the rulers of Lucknow and Jaipur, and this gave rise to two styles known as the Lucknow gharana and the Jaipur gharana. Gharana means 'house' or 'school'.
In Kathak, the accent is on footwork. A dancer wears anklets with several rows of bells and skillfully regulates their sound, sometimes sounding just one bell out of the many on his feet. The singer who accompanies the Kathak dancer not only sings, but reproduces the drum syllables also. The sarangi, a string instrument, provides the music at a Kathak performance.

Swarn Khandpur

1. **What is the Natya Shastra?**
    a. Scientific study of a classical dance
    b. Science of dances
    c. A book written by a sage
    d. A book deals with a drama
2. **Choose the appropriate meaning of the under lined word. The four main school of classical dancing in India?**
    a. Place where children are taught
    b. Training centers for artists
    c. Group of artists having a similar style.

d. Schools that are purely for dance

3. **When did Bharata Naatyam start shedding its purely sacred character?**
   a. When devadasis stopped dancing
   b. When danced as a solo performance
   c. When kings & rich patronised it
   d. When they used Carnatic music
4. **In which drama form the dances are all males?**
   a. Bharat Natyam
   b. Manipuri
   c. Kathak
   d. Kathakali
5. **Which dance form has a origin in folk dance?**
   a. Ras Leela
   b. Lai Haroba
   c. Manipuri
   d. Kathak
6. **In Kathak, the accent is ----------**
   a. On the basis of dancer's anklets
   b. On sound created by bells
   c. On the regulation of sound
   d. On footwork

Q. Read the stanza given below very carefully an answer the questions that follow: (1X2=2)

STANZA – 1

The cardboard shows me how it was
When the two girl cousins went paddling,
Each one holding one of my mother's hands,
And she the big girl – some twelve years or so.

What does the 'cardboard' show the poet?

Why did the two girl cousins hold one of the poet's mother's hands?

GRAMMAR (5marks)

1. **There is one error in each line. Point out the errors and make corrections.**

		Incorrect	**Correct**
In 10 May, 1993, a young girl	e.g.	in	on
of Himachal Pradesh called Dicky Dolma	(a)	_____	_____
sets a world record when she	(b)	_____	_____
became the younger woman in the	(c)	_____	_____
world to climbing the Everest! This	(d)	_____	_____
record was set when she reached			
the top to the world's highest	(e)	_____	_____
mountain as a member of the			
Indo-Nepal Women's Expedition at the age of 19.			

2.Look at the words and phrases given below. Rearrange them to form meaningful sentences as given in the example. (4marks)

Example: to be broken / health myths / that need / are / a few / there /
There are a few health myths that need to be broken.

a. contains / only animals / no plant food / cholesterol, / manufacture it /
b. and / are / cholesterol / free from / all dry fruits / oil seeds / so / are
c. cholesterol / free from / made from plants / is / any oil / always /
d. one of the / oil / mustard / best / oil / the / oils / such / best / olive / healthiest / among / etc / are / and

(Any Query : Amandeep (94176-55634)

Subject : Economics

(A)	Written Assignment	40 Marks
(B)	Activity / Project	30 Marks
(C)	Tests	30 Marks

01Q. Answer the following Question :-

(i) Find median from the following data :-

X	98	101	103	108	114	100	107	110	120

(ii) Find out Q1 from the following data :-

X	5	9	13	17	19	25	30	32	33	35	40

(iii) Find out Q3 from the following data :-

X	8	4	16	12	18	29	24	31	34	32	38

(iv) From the following data find out Q1 and Q3 :-

X	20	24	28	16	36	40	32	12

(v) Calculate Q1 and Q3 from the following data :-

Earnings(₹)	35	45	55	65	75	85	95	105
Employee	4	8	12	18	11	9	6	4

(vi) Find out Quartiles D4P60 for the following :-

Marks	0-4	4-8	8-12	12-14	14-18	18-20	20-25	25-30
Students	10	12	18	7	5	8	4	6

(vii) From the following data find out upper and lower quartile .

Roll No.	1	2	3	4	5	6	7
Marks	20	29	40	13	32	15	51

(viii) Calculate Lower and Upper Quartile .

X	24	25	6	9	13	17	28	37	48	19	23	23	49	60

(ix) Calculate median from the following :-

Class Interval	60-69	50-59	40-49	30-39	20-29	10-19
Frequency	13	15	21	20	19	12

(x) Calculate Quartile from following :-

Class	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	16	14	23	17	7	3

(xi) Calculate median and quartile from the following series :-

Class Interval	0-5	5-10	10-15	15-20	20-25	25-30	30-35
Frequency	6	12	15	20	18	14	15

(xii) Calculate the value of upper and lower quartile from the following data :-

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	8	16	22	30	24	12	6

(xiii) The following table gives the marks obtained by 50 student in statistic :-

Marks (Less than)	10	20	30	40	50	60
No. of Students	4	10	20	40	47	50

(xiv) Find out median and Quartiles of the following series :-

X	4	5	6	7	8	9	10	11
F	40	48	52	56	60	63	57	55

(xv) Calculate , Med and Q3 from the following :-

Age	15-19	20-24	25-29	30-34	35-39	40-44
Number	4	20	38	24	10	4

(xvi) Calculate Median

Income (₹)	Below 100	100-200	200-300	300-400	400-500	500 and above
No. of Person	50	500	555	100	3	2

(xvii) Calculate Median from the following :-

Marks	10	20	30	40	50	60	70	80
No. of Student	2	8	16	26	20	16	7	4

(xviii) Determine class limits and find out Quartiles .

Central Value	2.5	7.5	12.5	17.5	22.5
Frequency	7	18	25	30	20

(xix) Calculate Missing Values when Median = 55.25and N=95 from the following :-

Class Interval	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Frequency	5	6	8	----	20	17	---	8

(xx) Following are the Marks of statistic of two group . Which group has a higher knowledge ? Take Median as Base ?

Marks by G A	10	20	30	40	50	60
Marks by G A	6	13	25	45	55	60

(xxi) Determine Mean and Median from following :-

X(Below)	10	20	30	40	50	60
Frequency	6	13	25	45	55	60

(xxii) Find out Arithmetic Mean and Median from following data :-

Wages (Less than (₹))	10	20	30	40	50
Workers	3	8	17	20	22

(xxiii) Calculate Q3 and Mode from the following data :-

X	0-10	10-20	20-30	30-40	40-50	50-60
F	2	8	27	15	11	6

(xxiv) Calculate different central value asked :-

(i) Median when Mode = 25 and Mean as 22

(ii) Mode , when Median = 13 and Mean as 15

(iii) X when median = 41 and Mode is 38

(xxv) Determine the value of median and mode :-

Marks	45	50	55	60	65	70	75
No. of Stu.	1	3	7	10	6	4	2

(xxvi) Determine the value of median graphically from following :-

Class Interval	10-20	20-30	30-40	40-50	50-60	60-70

Frequency	4	12	19	8	6	3

(xxvii) Find out Mean using direct method :-

X	10-16	16-32	32-40	40-50	50-70
F	2	5	7	4	3

(xxviii) Determine central 50% limit for the following data :-

Size	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	2	9	15	6	5	3

(xxix) Calculate modal rent :-

Rent (₹)	100-200	200-300	300-400	400-500	500-600
No. of Person	5	12	19	11	6

(xxx) Calculate X , Median and Mode from the following :-

X	15-20	20-25	25-30	30-35	35-40	40-45
F	4	20	38	24	10	4

(xxxi) In a bimodal series value of mode and mean are 35 and 38 calculate Median

(xxxii) In a skewed distribution Median and Mode are 25and 22 Fin out Mean :-

(xxxiii) Calculate Mode from following :-

X	0-5	5-10	10-20	20-30	30-40	40-50	50-60
F	3	8	15	22	30	19	9

(xxxiv) Calculate Mean , Median and Mode from the following :-

X Below	10	20	30	40	50	60
Frequency	6	13	25	45	55	60

(xxxv) Calculate Mean wage , Medianwage and Mode from following :-

Wages Below (₹)	10	20	30	40	50
Labourer	3	8	17	20	22

Activity **30 Marks**

A Comparison with Neighbours
India and Pakistan
India and China

Q1. Concept :- Introduction and compare the following aspects .

01. Poverty ratio
02. Agriculture , Industry and Territory sector .
03. Population
04. Gross domestic product

Collect the information through internet and then show it by drawing groups suitable picture .

Q2. Data Analysis

Q3. Findings

Name :- Dr. Alka Chhabra **Mob. No. :- 9814831652**

Subject : Psychology

General Instructions

1. All questions are compulsory and answer should be brief and to the point.
2. Question Nos. 1-2 in Part A are Very short answer questions carrying two Marks each. Answer to each question should not exceed 30 words.
3. Question Nos. 3-4 in Part B are short answer Type I questions carrying four Marks each. Answer to each question should not exceed 60 words.
4. Question Nos. 5-6 in Part C are short answer Type I questions carrying five Marks each. Answer to each question should not exceed 80 words.
5. Question Nos. 7-8 in Part D are long answer Type questions carrying Six Marks each. Answer to each question should not exceed 200 words.

Section A (35Marks)

Part A. Very short answer question

1. What is Psychology?
2. Define Mental process?

Part B .Short answer type-I

3. What is behaviour?

4. Give one example of Overt and covert behaviour?

Part C . Short Answer type II

5. What is functionalist approach ?

6. What is Psychoanalysis?

Part D **. Long answer type**

7. Give a brief account of the evolution of Psychology?

8. How can you distinguish scientific psychology from the popular notions about the discipline of psychology?

Section B

Project work

A. Watch at least two of any of the following movies based on psychological themes and write reviews based on:-

1. Character sketch of the (protagonist) main character.
2. What were the various problems encountered by the protagonist and how were they resolved.
3. Reflect on the relationship that the protagonist shared with other characters.
4. Your learning's from the movie.
5. Discuss your favourite part of the movie giving reasons.

6. Your criticism /opinion/comments/suggestions / feedback on the movie (positive or negative)
   The list of movies:
   a. Life of Pi
   b. English Vinglish
   c. Theory of everything
   d. A beautiful mind
   e. Pursuit of Happyness
   f. A few Good Men
   g. I am Kalam
   h. Highway.

B. Prepare a report / poster about one famous Psychologist
   (Please include a picture , their historical background , contributions to psychology and also discuss why you choose him/her.

Section:C

Test will be conducted as per given schedule once in a week based on Section A through google form

Prepared By: Manjinder Kaur
Phone No: 7504600045

Subject : Business Studies

General Instructions:

It is mandatory for all the students to solve the assignment.

Internal assessment will be given on the basis of this assignment.

Assignment will be assessed on the basis of originality; communication skills and creativity.

Part A (35 marks)

1.write the answers of the following given questions: (35 marks)

Q.1 What is meant by word ' Business' ? Describe different features of Business. (6 marks)

Q.2 Differentiate between Economic Activities and Non- Economic Activities. (6 marks)

Q.3 Discuss the importance and functions of business. (6 marks)

Q.4 "The main objective of business is to earn profit." Do you agree with this statement. Write the objectives of Business. (6 marks)

Q.5 What is Joint Stock Company? Write main features of Joint Stock Company. (6 marks)

Q.6 Write the Objectives of Joint Stock Company. (5 marks)

Part- B Project Work (35 marks)

Choose any one.

1. Prepare pdf file showing: How business is effected due to Covid-19.

2. Prepare pdf file highlighting the business in villages; it's importance and impact on village life and country development as well.

3. Prepare audio: You are a businessman; suggesting or instructing your colleagues to follow the precautions regarding Covid -19; and guiding your colleagues to work online.

Part- C (30 marks) (each test 10 marks)

1. First Saturday- Test of Business introduction its features; objectives and importance.

2. Second Saturday test- Test of Economic Activities and Non- Economic Activities.

3.Third Saturday test: Test of topic- Joint Stock Company.

Name: Kamaljeet Kaur

Phone Number- 9815812787

Subject : History

- Do the following questions on your notebook in the form of points.
- Chapter 1From the beginning of time
- Chapter 2Writing and city life
- The homework is divided into three sections
  Section A – Assignment (35 Marks)
  Section B – Project Work (35 Marks)
  Section C – Test (15+15=30 Marks)

Assignment **Marks 35**

1. Explain what is fossile.
   जीवाश्म क्या है
2. Explain the term Primates.
   प्राइमेट्स शब्द की व्याख्या करें।
3. Explain it: - इसे समझाओ :-

   Homo habilis 1. होमो हैबिलिस

   Homo erectus 2. होमो इरेक्टस
4. Write the name of civilizations which were contemporary of Mesopotamian.
   उन सभ्यताओं के नाम लिखिए जो मेसोपोटामिया की सभ्यता के समकालीन थे।
5. Write the name of main transportation of Mesopotamia.
   मेसोपोटामिया के मुख्य परिवहन का नाम लिखिए।
6. How people express their views?
   लोग अपने विचार कैसे व्यक्त करते हैं?
7. Write about the language of Mesopotamia.
   मेसोपोटामिया की भाषा के बारे में लिखिए।
8. Write the name the book of Charles Darwin and tell the theory of Charles Darwin.
   चार्ट्स डार्विन की पुस्तक का नाम लिखें और चार्ट्स डार्विन के सिद्धांत को बताएं।
9. How would early humans have obtained food? Explain in four points.
   शुरुआती मनुष्यों ने भोजन कैसे प्राप्त किया होगा? चार बिंदुओं में स्पष्ट कीजिए।
10. What types of family found in Mesopotamia, write about the people and town life?
    मेसोपोटामिया में किस प्रकार का परिवार पाया जाता है, लोगों और शहर के जीवन के बारे में लिखें?
11. Which thing was used as paper to write by Mesopotamian people?
    मेसोपोटामियन लोगों द्वारा लिखने के लिए कागज के रूप में किस चीज का उपयोग किया गया था?
12. Mesopotamian people what they import and export, which countries involved in this process.

    मेसोपोटामिया के लोग क्या आयात और निर्यात करते हैं, इस प्रक्रिया में कौन से देश शामिल हैं।
13. How would early humans have obtained food?
    शुरुआती मनुष्यों ने भोजन कैसे प्राप्त किया होगा?

Or

Explain the main geographical features of Mesopotamia.

मेसोपोटामिया की मुख्य भौगोलिक विशेषताएं बताइए।

Project Marks 35

Prepare presentation (slide show) on these topics. You can make video on this topic but without go outside

इन विषयों पर प्रस्तुति (स्लाइड शो) तैयार करें। आप इस विषय पर वीडियो बना सकते हैं लेकिन बिना बाहर जाए

1. Compare the time of early man and the time of Modern man. 20
   शुरुआती आदमी के समय और आधुनिक आदमी के समय की तुलना करें।
2. Compare the mesopotamian civilization and harappan civilization. 15
   मेसोपोटामिया की सभ्यता और हरप्पन सभ्यता की तुलना करें।

Parameters of assessment in project

1. Relevancy of content	5
2. Accuracy	5
3. Creativity	5
4. Timely submission	5

Weekly Test Marks30

Two tests will be from above mentioned chapters

1. From the beginning of time 15 marks

2. Writing and city life 15 marks

Test will be through Google form**.**

Jasbir Singh

9814265365

Subject : Biology

The whole work is divided into following parts:-

1. **Written work(Assignments or worksheet)** **40 Marks**
2. **Project Work** **30 Marks**
3. **Objective type test** **30 Marks**

Project should be completed by staying at home, no need to go outside anywhere. You should use only those things and equipment's that are usually found at your homes.

(For example if you don't have colors then you can use only your pen or pencil, no need to go outside, stay at your home, stay safe)

1. Students have to write the answers of following question in their note books. (40 Marks)

Chapter-16 Digestion and Absorption(Each question carry four marks)

1. A person had roti and dal for his lunch. Trace the changes in those during its passage through the alimentary canal.
2. What are the various enzymatic types of glandular secretions in our gut helping digestion of food? What is the nature of end products obtained after complete digestion of food?
3. Discuss mechanisms of absorption.
4. Discuss the role of hepato – pancreatic complex in digestion of carbohydrate, protein and fat components of food.
5. Explain the process of digestion in the buccal cavity with a note on the arrangement of teeth.

Chapter-17 Breathing And Exchange of Gases

1. For completion of respiration process, write the given steps in sequential manner
   a) Diffusion of gases (O_2 and CO_2) across alveolar membrane.
   b) Transport of gases by blood.
   c) Utilisation of O_2 by the cells for catabolic reactions and resultant release of CO_2
   d) Pulmonary ventilation by which atmospheric air is drawn in and CO_2 rich alveolar air is released out.
   e) Diffusion of O_2 and CO_2between blood and tissues.
2. Differentiate between
   a) Inspiratory and expiratory reserve volume
   b) Vital capacity and total lung capacity
   c) Emphysema and occupational respiratory disorder
3. Explain the transport of O_2 and CO_2 between alveoli and tissue with diagram.
4. Explain the mechanism of breathing with neat labelled sketches.
5. Explain the role of neural system in regulation of respiration.

2. Project Work (30 Marks)

Nowadays our world is fighting with COVID-19. So as a biology student you must know about this virus.I am assigning you a project work based on it. Try to find out following questions and prepare a file(If sheets are not available you can submit soft copy).

a) From 17th April to 10th May ,daily make a report about the number of infected persons, cured persons and death of persons in each district of Punjab.(10 Marks)
b) Prepare a collage which contains news related with Corona virus(It may be of your state/ country/ Whole World . (10 Marks)
c) You have learnt about respiration and breathing recently. Now try to find out how corona virus infected it.(10 Marks)

3. Objective type test (30 Marks)

Test will be from above mentioned 2 chapters. And test will be given you later in your whatsapp groups or Google docs.

For any quarry you can contact:- Ms Preeti Bishnoi(7508244624)

Subject : Political Science

Instructions.

It is mandatory for all the students to complete the home work.

Internal assessment will be based on the completion of holidays' homework.

Questions 1-5 carry 3 marks each.

Question 6-10 carry 4 marks each

Answer the following questions . Each question carry one mark.

1. Which is the supreme law of India? Write down its importance.
2. Why the Preamble is known as the key of Constitution? Write down its text.
3. Which kind of justice is included in to the Preamble of India? Define any two.
4. Write any two kinds of Liberties included into the Preamble of India.
5. Write down the significance of Drafting Committee.

Answer the following questions . Each question carry two marks.

6. When the constitution of India was adopted and when it came into Force ? Write down its importance in your own words.
7. What is the importance of constitution ?
8. Why the Preamble is not a part of the Indian constitution ?
9. Write down the significance of the following words used in the Preamble – Fraternity, Dignity of the individual, Unity and Integrity of the Nation.
10. What is written in the Preamble of the Constitution about the nature of India ?

. Section B (Project Work)

1. Read Newspaper everyday and prepare a Audio or Video on ten major events. (10)
2. Prepare a PPT on the Preamble of the Indian Constitution. (10)
3. Make a Slide show on Rajniti movie or Kurukshetra movie . (15)

Section C

Test will be conducted as par given schedule once in a week based on Section A through google form .

With Regards
Pardeep Kaur
9877748245

Subject : Chemistry

THE WHOLE WORK IS DIVIDED INTO FOLLOWING PARTS:-

1. Written work 35 Marks
2. Activities 35 Marks
3. Weekly test 30 Marks

1.

(i) **complete your notes of the following chapter**

Chapter 2 - Stucture of atom

Write the answers of the following questions:

1. (i) Calculate the number of electrons which will together weigh one gram.

(ii) Calculate the mass and charge of one mole of electrons.

2. (i) Calculate the total number of electrons present in one mole of methane.

(ii) Find (a) the total number and (b) the total mass of neutrons in 7 mg of 14C.

(Assume that mass of a neutron = 1.675×10^{-27} kg).

3. Yellow light emitted from a sodium lamp has a wavelength (_) of 580 nm. Calculate the frequency (_) and wavenumber (_) of the yellow light.

4. Find energy of each of the photons which

(i) correspond to light of frequency 3×10^{15} Hz.

(ii) have wavelength of 0.50 Å.

5. Calculate the wavelength, frequency and wavenumber of a light wave whose period is 2.0×10^{-10} s.

6. What is the number of photons of light with a wavelength of 4000 pm that provide 1J of energy?

7. A photon of wavelength 4×10^{-7} m strikes on metal surface, the work function of the metal being 2.13 eV. Calculate (i) the energy of the photon (eV), (ii) the kinetic energy of the emission, and (iii) the velocity of the photoelectron (1 eV= 1.6020×10^{-19} J).

8. A 25 watt bulb emits monochromatic yellow light of wavelength of 0.57μm. Calculate the rate of emission of quanta per second.

9. What is the wavelength of light emitted when the electron in a hydrogen atom undergoes transition from an energy level with $n = 4$ to an energy level with $n = 2$?

10.Calculate the wavelength of an electron moving with a velocity of 2.05×10^{7} m s^{-1}.

11. What is the lowest value of n that allows g orbitals to exist?

12. An electron is in one of the 3d orbitals. Give the possible values of n, l and ml for this electron.

13. An atom of an element contains 29 electrons and 35 neutrons. Deduce (i) the number of protons and (ii) the electronic configuration of the element.

14. What transition in the hydrogen spectrum would have the same wavelength as the Balmer transition $n = 4$ to $n = 2$ of He^{+} spectrum ?

15. Calculate the energy required for the process He+ (g) □ He2+ (g) + e–

The ionization energy for the H atom in the ground state is 2.18×10^{-18} J $atom^{-1}$

16. An element with mass number 81 contains 31.7% more neutrons as compared to protons. Assign the atomic symbol.

17. An ion with mass number 37 possesses one unit of negative charge. If the ion contains 11.1% more neutrons than the electrons, find the symbol of the ion.

18. The longest wavelength doublet absorption transition is observed at 589 and 589.6 nm. Calcualte the frequency of each transition and energy difference between two excited states.

19. The work function for caesium atom is 1.9 eV. Calculate (a) the threshold wavelength and (b) the threshold frequency of the radiation. If the caesium element is irradiated with a wavelength 500 nm, calculate the kinetic energy and the velocity of the ejected photoelectron.
20. The ejection of the photoelectron from the silver metal in the photoelectric effect experiment can be stopped by applying the voltage of 0.35 V when the radiation 256.7 nm is used. Calculate the work function for silver metal.

2. Do activities mentioned below and note down on your note books.

Activity 1. Learn atomic number from 1 to 40. Also write their Electronic configuration .
Activity 2. Write some tricks to learn periodic table (Groups and Period) and make a video of that tricks .

3. Test

Test will be from above mentioned chapter. Test will be taken in 2 parts , once in a week. And test will be given you later in your whatsapp groups or in google docs form.

For any query you can contact at my number

Mrs.Suruchi
(8725802420)

Subject : Mathematics

1. Write the following sets in the roaster from
   (i) $A = \{x : x \in \mathbf{R}, 2x + 11 = 15\}$ (ii) $B = \{x \mid x^2 = x, x \in \mathbf{R}\}$
   (iii) $C = \{x \mid x$ is a positive factor of a prime number $p\}$

2. Write the following sets in the roaster form :
   (i) $D = \{t \mid t^3 = t, t \in R\}$ (ii) $E = \{w \mid \frac{w-2}{w+3} = 3, w \in \mathbf{R}\}$
   (iii) $F = \{x \mid x^4 - 5x^2 + 6 = 0, x \in \mathbf{R}\}$

3. If $Y = \{x \mid x$ is a positive factor of the number $2^{p-1}(2^p - 1)$, where $2^p - 1$ is a prime number$\}$.Write Y in the roaster form.

4. State which of the following statements are true and which are false. Justify your answer.
   (i) $35 \in \{x \mid x$ has exactly four positive factors$\}$.
   (ii) $128 \in \{y \mid$ the sum of all the positive factors of y is $2y\}$
   (iii) $3 \notin \{x \mid x^4 - 5x^3 + 2x^2 - 112x + 6 = 0\}$
   (iv) $496 \notin \{y \mid$ the sum of all the positive factors of y is $2y\}$.

5. Given $L = \{1, 2, 3, 4\}$, $M = \{3, 4, 5, 6\}$ and $N = \{1, 3, 5\}$
   Verify that $L - (M \cup N) = (L - M) \cap (L - N)$

6. If A and B are subsets of the universal set U, then show that
   (i) $A \subset A \cup B$ (ii) $A \subset B \Leftrightarrow A \cup B = B$
   (iii) $(A \cap B) \subset A$

7. Given that $N = \{1, 2, 3, \ldots, 100\}$. Then write
   (i) the subset of N whose elements are even numbers.
   (ii) the subset of N whose element are perfect square numbers.

8. If $X = \{1, 2, 3\}$, if n represents any member of X, write the following sets containing all numbers represented by
   (i) $4n$ (ii) $n + 6$ (iii) $\frac{n}{2}$ (iv) $n - 1$

9. If $Y = \{1, 2, 3, \ldots 10\}$, and a represents any element of Y, write the following sets, containing all the elements satisfying the given conditions.
   (i) $a \in Y$ but $a^2 \notin Y$ (ii) $a + 1 = 6, a \in Y$
   (iii) a is less than 6 and $a \in Y$

10. A, B and C are subsets of Universal Set U. If $A = \{2, 4, 6, 8, 12, 20\}$
    $B = \{3, 6, 9, 12, 15\}$, $C = \{5, 10, 15, 20\}$ and U is the set of all whole numbers, draw a Venn diagram showing the relation of U, A, B and C.

11. Let U be the set of all boys and girls in a school, G be the set of all girls in the school, B be the set of all boys in the school, and S be the set of all students in the school who take swimming. Some, but not all, students in the school take swimming. Draw a Venn diagram showing one of the possible interrelationship among sets U, G, B and S.

12. For all sets A, B and C, show that $(A - B) \cap (C - B) = A - (B \cup C)$

Determine whether each of the statement in Exercises 13 – 17 is true or false. Justify your answer.

13. For all sets A and B, $(A - B) \cup (A \cap B) = A$

14. For all sets A, B and C, $A - (B - C) = (A - B) - C$

15. For all sets A, B and C, if $A \subset B$, then $A \cap C \subset B \cap C$

16. For all sets A, B and C, if $A \subset B$, then $A \cup C \subset B \cup C$

17. For all sets A, B and C, if $A \subset C$ and $B \subset C$, then $A \cup B \subset C$.

Using properties of sets prove the statements given in Exercises 18 to 22

18. For all sets A and B, $A \cup (B - A) = A \cup B$

19. For all sets A and B, $A - (A - B) = A \cap B$

20. For all sets A and B, $A - (A \cap B) = A - B$

21. For all sets A and B, $(A \cup B) - B = A - B$

22. Let $T = \left\{x \mid \frac{x+5}{x-7} - 5 = \frac{4x-40}{13-x}\right\}$. Is T an empty set? Justify your answer.

Long Answer Type

23. Let A, B and C be sets. Then show that

$A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$

24. Out of 100 students; 15 passed in English, 12 passed in Mathematics, 8 in Science, 6 in English and Mathematics, 7 in Mathematics and Science; 4 in English and Science; 4 in all the three. Find how many passed

(i) in English and Mathematics but not in Science

(ii) in Mathematics and Science but not in English

(iii) in Mathematics only

(iv) in more than one subject only

25. In a class of 60 students, 25 students play cricket and 20 students play tennis, and 10 students play both the games. Find the number of students who play neither?

1. Find the term independent of x, $x \neq 0$, in the expansion of $\left(\frac{3x^2}{2} - \frac{1}{3x}\right)^{15}$.

2. If the term free from x in the expansion of $\left(\sqrt{x} - \frac{k}{x^2}\right)^{10}$ is 405, find the value of k.

3. Find the coefficient of x in the expansion of $(1 - 3x + 7x^2)(1 - x)^{16}$.

4. Find the term independent of x in the expansion of, $\left(3x - \frac{2}{x^2}\right)^{15}$.

5. Find the middle term (terms) in the expansion of

(i) $\left(\frac{x}{a} - \frac{a}{x}\right)^{10}$ (ii) $\left(3x - \frac{x^3}{6}\right)^{9}$

6. Find the coefficient of x^{15} in the expansion of $(x - x^2)^{10}$.

7. Find the coefficient of $\frac{1}{x^{17}}$ in the expansion of $\left(x^4 - \frac{1}{x^3}\right)^{15}$.

8. Find the sixth term of the expansion $\left(y^{\frac{1}{2}} + x^{\frac{1}{3}}\right)^n$, if the binomial coefficient of the third term from the end is 45.

[**Hint**: Binomial coefficient of third term from the end = Binomial coefficient of third term from beginning = ${}^nC_2$.]

9. Find the value of r, if the coefficients of $(2r + 4)^{th}$ and $(r - 2)^{th}$ terms in the expansion of $(1 + x)^{18}$ are equal.

10. If the coefficient of second, third and fourth terms in the expansion of $(1 + x)^{2n}$ are in A.P. Show that $2n^2 - 9n + 7 = 0$.

11. Find the coefficient of x^4 in the expansion of $(1 + x + x^2 + x^3)^{11}$.

Long Answer Type

12. If p is a real number and if the middle term in the expansion of $\left(\frac{p}{2} + 2\right)^8$ is 1120, find p.

13. Show that the middle term in the expansion of $\left(x - \frac{1}{x}\right)^{2n}$ is $\frac{1 \times 3 \times 5 \times \ldots (2n-1)}{\lfloor n} \times (-2)^n$.

14. Find n in the binomial $\left(\sqrt[3]{2} + \frac{1}{\sqrt[3]{3}}\right)^n$ if the ratio of 7^{th} term from the beginning to the 7^{th} term from the end is $\frac{1}{6}$.

Project: Do any 5 activities from **Maths NCERT Laboratory Manual for CBSE Class 11** (30 Marks)

Test-1 : Sets: 15 Marks

Test-2: Binomial Theorem: 15 Marks

Subject : Physics

THE WHOLE WORK IS DIVIDED INTO FOLLOWING PARTS:-

1. Written work(Assignments or worksheets) 35 Marks
2. Project work 35 marks
3. Weekly test 30 marks

NOTE:-

1. Activity and project should be completed by staying at home, no need to go outside any where. You should use only those things and equipment's that are usually found at your homes.

(For example if you don't have colors then you can use only your pen or pencil, no need to go outside, stay at your home, stay safe)

1.written work (Complete the following worksheet)

Chapter= 1. Kinematics

Q1.A woman starts from her home at 9.00 am, walks with a speed of 5 km h–1 on a straight road up to her office 2.5 km away, stays at the office up to 5.00 pm, and returns home by an auto with a speed of 25 km h–1. Choose suitable scales and plot the x-t graph of her motion.

Q2. A drunkard walking in a narrow lane takes 5 steps forward and 3 steps backward, followed again by 5 steps forward and 3 steps backward, and so on. Each step is 1 m long and requires 1 s. Plot the x-t graph of his motion. Determine graphically and otherwise how long the drunkard takes to fall in a pit 13 m away from the start.

Q3.A jet airplane travelling at the speed of 500 km h–1 ejects its products of combustion at the speed of 1500 km h–1 relative to the jet plane. What is the speed of the latter with respect to an observer on the ground ?

Q4.A car moving along a straight highway with speed of 126 km h–1 is brought to a stop within a distance of 200 m. What is the retardation of the car (assumed uniform), and how long does it take for the car to stop ?

Q5.Two trains A and B of length 400 m each are moving on two parallel tracks with a uniform speed of 72 km h–1 in the same direction, with A ahead of B. The driver of B decides to overtake A and accelerates by 1 m s–2. If after 50 s, the guard of B just brushes past the driver of A, what was the original distance between them ?

Q6. On a two-lane road, car A is travelling with a speed of 36 km h–1. Two cars B and C approach car A in opposite directions with a speed of 54 km h–1 each. At a certain instant, when the distance AB is equal to AC, both being 1 km, B decides to overtake A before C does. What minimum acceleration of car B is required to avoid an accident ?

Q7.Two towns A and B are connected by a regular bus service with a bus leaving in either direction every T minutes. A man cycling with a speed of 20 km h–1 in the direction A to B notices that a bus goes past him every 18 min in the direction of his motion, and every 6 min in the opposite direction. What is the period T of the bus service and with what speed (assumed constant) do the buses ply on the road?

Q8. A player throws a ball upwards with an initial speed of 29.4 m s–1. (a) What is the direction of acceleration during the upward motion of the ball ? (b) What are the velocity and acceleration of the ball at the highest point of its motion ? (c) Choose the x = 0 m and t = 0 s

to be the location and time of the ball at its highest point, vertically downward direction to be the positive direction of x-axis, and give the signs of position, velocity and acceleration of the ball during its upward, and downward motion. (d) To what height does the ball rise and after how long does the ball return to the player's hands ? (Take g = 9.8 m s–2 and neglect air resistance).

Q9. Read each statement below carefully and state with reasons and examples, if it is true or false ; A particle in one-dimensional motion (a) with zero speed at an instant may have non-zero acceleration at that instant (b) with zero speed may have non-zero velocity, (c) with constant speed must have zero acceleration, (d) with positive value of acceleration must be speeding up.

Q10. A ball is dropped from a height of 90 m on a floor. At each collision with the floor, the ball loses one tenth of its speed. Plot the speed-time graph of its motion between t = 0 to 12 s.

Q11. Explain clearly, with examples, the distinction between : (a) magnitude of displacement (sometimes called distance) over an interval of time, and the total length of path covered by a particle over the same interval; (b) magnitude of average velocity over an interval of time, and the average speed over the same interval. [Average speed of a particle over an interval of time is defined as the total path length divided by the time interval]. Show in both (a) and (b) that the second quantity is either greater than or equal to the first. When is the equality sign true ? [For simplicity, consider one-dimensional motion only

2. Students have to complete their following projects .

Project 1. As you know that we all are fighting with covid 19 virus. In this time there is a huge need of PPE(personal protective equipment's). Make a list of those some equipment's and how they help us to protect from covid 19.

Project 2. As you know our country is under lockdown. Therefore we noticed huge change in environment as air and water both are in there purest form. What is the reason behind this change. Give your ideas how we can maintain the quality if air and water after lockdown.

Project 3. Here 3 focus area are given below, you have to choose atleast 2 areas of your interest and submit your ideas.

(a).Easy tracking of infected peoples (b).3D printed medical solutions

(c). Low cost medical devices

Parameters of assessment in project

1	Relevancy of content	10 Marks
2	Accuracy	10 Marks
3	Creativity	10 Marks
4	Timely submission	5 Marks

3.Weekly test

Test will be from above mentioned chapters(kinematics). And test will be given you later in your whatsapp groups or google docs.

Subject : Agriculture

1. The holiday's home work is divided into following parts:

a) Written work (worksheets) **40 marks**

b) Three activities **30 marks**

c) Three tests **30 marks**

NOTE:-Activities and projects should be completed in homes only, in no case you will go outside. You have to utilize the sources available at home only (like you can use pencil or pen to colour anything if you do not have colours with you.

1) **Answer the Following questions in detail:**
   Q1: What is agriculture? Enlist various branches of agriculture.
   Q2: What role agriculture plays in Indian economy and generating employment?
   Q3: Define weather. Write its various components.
   Q4: Explain the difference between soil structure and soil texture.
   Q5: How Alkaline and saline soils can be reclaimed?
   Q6: What is tillage? Write its different types and explain.
   Q7: Name and explain in detail different methods of vegetative propagation.
   Q8: What do you understand by cooperative system in agriculture?
   Q9: Give detailed information about animal based products that are commonly used.
   Q10: Describe different types of seeds? Also mention the labels used for each type.
2) **Prepare the following Assignments:**

1: Collect, dry and paste the leaves of different field crops, fruits, vegetables and weeds available around you.
2: Make a list of available implements at your home for agriculture purpose and write their use.
3: Enlist different types of problems faced by farmers during this lockdown and from your point of view what will be the remedial steps for these problems.

3) **Tests will be conducted through watsapp groups and google docs. You will be informed in advance about the tests.**

Teacher Incharge:
Karampal Singh
9464400021

Subject : Punjabi

Holidays Home Work M.M. 100
Class: +1 (ਗਿਆਰਵੀਂ) Sub. Pbi

1) ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ ਦੇ ਪ੍ਰਾਜੈਕਟ ਬਣਾਓ (10_15) ਪੰਨਿਆਂ ਦਾ ਲਿਖਤੀ ਰੂਪ ਵਿੱਚ ਤਸਵੀਰਾਂ ਪੈਨਸਿਲ ਨਾਲ ਬਣਾਓ । (ਤਸਵੀਰਾਂ ਸਮੇਤ)
(35)

1. ਸੋਸ਼ਲ ਮੀਡੀਆ
2. ਜੰਕ ਫੂਡ

2) ਸੱਭਿਆਚਾਰ ਅਤੇ ਸਮਾਜਿਕ ਵਿਸ਼ੇ ਨਾਲ ਸਬੰਧਿਤ ਲੇਖ ਲਿਖੋ ਕੋਈ ਚਾਰ । (35)

3) ਕਵਿਤਾ ਦੀ ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਉਸੇ ਤੱਤਾਂ ਦਾ ਉਲੇਖ ਕਰੋ ।(w/L)

4) ਅਖਾਣ ਕ ਤੋਂ ਦੂਜਾ ਝ ਨਾਲ ਸ਼ੁਰੂ ਹੋਣ ਵਾਲੀ ਕਾਪੀ ਤੇ ਲਿਖੋ ।

Test (10+10+10=30)

Name: Parminder kaur
phone no. 7440815401

Subject : Commercial Arts

1. We know line & shape are main basic elements of Art. Lines are used to create shape, pattern, texture, space, movement and optical illusion in design. The use of lines allows artist to demonstrate delicacy or force. See the following image and try to make a (8x8 size) paper craft project of any figure/design as per your choice with different color papers using types of lines.

M.M.= 35 Marks

2. Make an Assignment on the topic of Role of Colors in daily life and the following Image express some colors. Which three colors are mainly used maximum in this image and write about the effect of these three colors in your words.(500 words)

M.M.= 35 Marks

3. Syllabus of Test three topics--- Elements of Art, Principle of Art & Colors.

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