

Phone: 0120-2534064, 2538533 / E-mail: bbpsnd@balbharati.org

Website: http://bbpsnoida.balbharati.org

SUMMER HOLIDAY HOMEWORK 2019-20 CLASS XI

INSTRUCTIONS FOR COMPILATION OF HOLIDAY HOMEWORK

 You may use different colour A4 size sheets for different subjects. Have a labelled cover page for each subject. All sheets of a subject should be put together / tied/stapled together and handed over to the respective subject teachers on the first day of rejoining after summer break. Attach all the worksheets along with the homework sheets. The written part should be neatly presented in your own handwriting. Remember a well presented "Holiday Home Work" fetches you appreciation of the teachers and classmates. 	 All homework is to be done on A4 size sheets and compiled in a hard bound file / folder. Design an attractive cover for your file / folder.
 The written part should be neatly presented in your own handwriting. Remember a well presented "Holiday Home Work" fetches you appreciation of the 	page for each subject. All sheets of a subject should be put together / tied / stapled together and handed over to the respective subject teachers on the first day of rejoining after
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<u>LAST DATE OF SUBMISSION OF HOLIDAY HOMEWORK: 04 JULY 2019</u>

ENGLISH

Attempt the assignment for the month of April-May on A-4 sheets and submit neatly in a folder.

- · Literature Section-Students must adhere to the word limit and underline the key points.
- · Improve and shape up your vocabulary and speaking skills by reading the assigned book. Prepare to make a short presentation in the class on the book read focusing on the characters, the plot, the social context and critical appraisal. Your speaking skills assessment will be done on the basis of your class presentation.

Suggested Books

To Kill a Mocking Bird by Harper Lee (Roll numbers 1-10)
Hunger Games Trilogy (Roll numbers 11-20)
The Book Thief by Marcus Zusak (Roll numbers 21-30)
1984 by George Orwell (Roll numbers 31-40)

BIOLOGY

- a) Complete assignments of chapters 1- 4 Unit: The Living World in your biology register.
- b) Prepare a detailed research paper, PPT and Spiral bound file from the topic of your choice.

List of Investigatory projects-

- a) To isolate caffeine from tea leaves.
- b) To determine the amount of Vitamin C in selected samples of fruit juices.
- c) To determine the amount of casein present in different samples of milk.
- d) To study the presence of insecticides and pesticides in various fruits and vegetables.
- e) Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, taste etc.
- f) Proxymal Supraventrical Tachycardia, Epidermodysplasia verruciformis, Kawasaki Disease, Progeria, Hunter's Syndrome, Genetic Abnormalities, Vampire Disorder,

Mad Cow Disease, Fibrodysplasia ossificans Progressiva, Abdominal Cocoon etc.

Complete the Investigatory project and Compile it according to the prescribed format.

- Cover page
- Certificate
- Acknowledgment
- Index
- Introduction
- Content (including pictures/graphs/tables/survey report etc.)
- Case Study
- Bibliography
- Assessment Criterion Content, Presentation, Research Work, Case study, Viva-voce and Confidence.
- It is an <u>individual activity</u> and marks will be awarded in half yearly examination and Annual Examination during practical Examination.

POLITICAL SCIENCE

- Q1 Do the assignments of chapters 1-4 of the book I: Indian Constitution
- Q2. Project work

20 marks

- The suggestive list of activities for project work is as follows: - Role Play, Skit, Presentation, Model, Field Survey, Mock Drills/Mock Event etc
- The project can be individual/pair/group of 4-5 each.
- The Project can be made on any of the topics given in the syllabus of a particular class.
- The suggestive list of activities for project work is as follows: - Role Play, Skit, Presentation, Model, Field Survey, Mock Drills/Mock Event etc.

The topic for Project Work taken up by the student/s should be from any of the two books.

SUGGESTIONS FOR PROJECT WORK

<u>RATIONALE</u>: Project work in Political Science has been introduced in 2019 as a measure of 'assessment as learning' to activate learning through experimental processes so that education becomes more contextual and updated.

BOOK 1: INDIAN CONSTITUTION AT WORK

Ch-5, the Legislature

TOPIC: Working of Lok Sabha and Rajya Sabha

The students can work in two groups. One group can represent Rajya Sabha and the other group can represent Lok Sabha. They can impersonate various leaders of importance and can debate and propose a bill on a particular current topic. After the debate and the various readings of the bill, they can pass the bill in both the houses which can further go for the assent of the President. Herein, the students will be able to understand the working of the Parliament as well as the head of the executive and hence they will be able to analyze the relationship between the executive and the legislature.

To incorporate hands on learning, an educational field trip can be planned to the Parliament.

The students can further prepare a project file on the same topic and supplement it with various mindmaps, cartoons, parliamentary debates etc.

ASSESSMENT CRITERIA

- 1. Content of the topic
- 2. Eloquence
- 3. Understanding of the parliamentary procedure
- 4. Analysis

Ch-6, Judiciary

TOPIC: Landmark judgments in contemporary India

There have been numerous landmark judgments in contemporary India such as the Kesavananda Bharti Case, decriminalization of section 377, Right to Privacy, Abolition of triple talaq etc. Students can opt for any one such judgment which has altered the political or cultural fabric of India. He/she will analyze the circumstances and issues leading towards the judgment and the cultural/political impact of it. This will give the student an insight into the judicial process wherein the student should be able to understand the importance of judiciary as an independent organ of the government. This will also give a glimpse of judicial activism to the students. It will be compiled in the form of a project file supplemented with newspaper clippings,

cartoons, editorials etc.

ASSESSMENT CRITERIA:

- 1. Content Clarity
- 2. Analysis
- 3. Understanding
- 4. Presentation

BOOK 2: POLITICAL THEORY

Ch-6, Nationalism

TOPIC: Analyze the current situation of hyper-nationalism/ jingoism in India and how is it leading towards intolerance?

The students will understand the concept of hyper-nationalism and analyze it according to the present scenario. They will assess the various issues, circumstances and political will that lead towards inculcating a feeling of hyper-nationalism in the people. The students can conduct online surveys in the form of questionnaires for the people of different age groups, religion, ethnicities etc. and then analyze the result according to the distinct

categories. This will give them an insight into the mindset of distinct social groups which is beneficial to make and implement various public policies. They can assess the mindset of the people and also make an indicative public policy to lower the impact of hyper-nationalism and inculcate a sense of belonging in the people.

It can be presented in the form of a report or project but has to be supplemented with questionnaires and their proposal to combat hyper-nationalism.

ASSESSMENT CRITERIA:

- 1. Content Clarity
- 2. Analysis
- 3. Application
- 4. Presentation

Ch-8, Secularism

TOPIC: Constituent Assembly debates on Secularism

The students will have to study the constituent assembly debates on Secularism and then assess the circumstances in which Nehru and Ambedkar ditched the S-word from the constitution. They will further analyze as to why Indira Gandhi inserted the word 'Secularism' in the Indian Constitution by amending the constitution (42 nd amendment). This gave rise to various criticisms of the Indian secularism and inapplicability of secularism in the Indian context as compared to the foreign definitions of secularism. Therefore, in the wake of these debates, students will critically analyze the difference between secularism in the Indian context and European context.

The students can present their arguments in the form of a report or a project.

ASSESSMENT CRITERIA:

- 1. Content Clarity
- 2. Analysis
- 3. Application
- 4. Presentation

Assignment work to be done in separate register and project work in a file.

HISTORY

- Q1 Do the assignments of chapters 5-9 of the book: World History
- Q2 Project work 20 marks

	ASSESSMENT	Allocation of Marks (20)
	The marks will be allocated under the following heads:	
1	Project Synopsis	2 Marks
2	Timeline/explanation and interpretation/Map work	5 Marks
3	Visual/overall presentation	4 Marks
4	Analysis/Data/Statistical analysis	4 Marks
5	Bibliography	1 Mark
6	Viva	4 Marks
	Total	20 Marks

FEW SUGGESTIVE TOPICS FOR PROJECTS

- 1. Anthropological Research based on Darwin's Theory
- 2. Critique of the industrialization in Britain
- 3. Relations and impacts of past crusades
- 4. Making and unmaking of Mesopotamia
- 5. Paradigms of Greeco-Roman civilization
- 6. Aspirations of women in Renaissance period
- 7. Paths to Modernization of Japan / China
- 8. An Exploratory study into Humanism
- 9. Piecing together the past of Genghis Khan
- 10. An in depth study into "now and then" paradigm of Christianity

- 11. An exploratory study into the realism and the transmission of Humanistic ideas
- 12. Scientific Revolution and the origins of modern science
- An exploratory study into the making of America
- 14. Myriad Realms of Slavery in ancient, medieval and modern world
- 15. Learning about global Sufism
- 16. History of aborigines America /Australia

Assignment work to be done in separate register and project work in a file.

PAINTING

SKETCH: Students need to prepare 10 Sheets (Minimum 3 objects).

SIZE: A2

MEDIUM: Pencil on paper

Above assignment will be assessed for 25 marks.

LANDSCAPE: Students need to prepare five landscape paintings.

SUBJECT: An oceanic view, a mountainous region, a desert scene, forest scene.

SIZE:A2

<u>MEDIUM</u>: Water Colour/ Poster Colour/ Acrylic Colour. Above assignment will be assessed for 25 marks.

ACCOUNTANCY

The assignments for the following chapters to be done during the summer vacations:

- 1. Accounting equation
- 2. Journal and ledger

BUSINESS STUDIES

The assignments for the following chapters to be done during the summer vacations:

- 1. Nature and purpose of business
- 2. Forms of business organisations

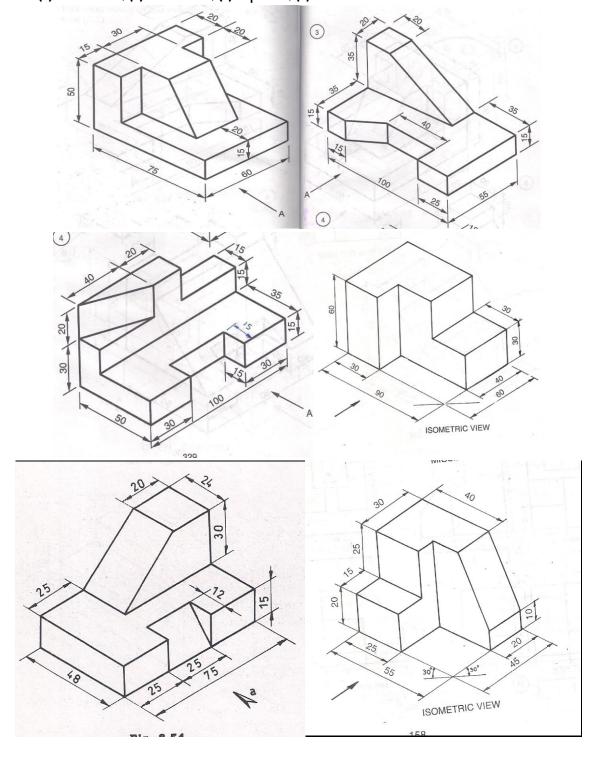
ENGINEERING GRAPHICS

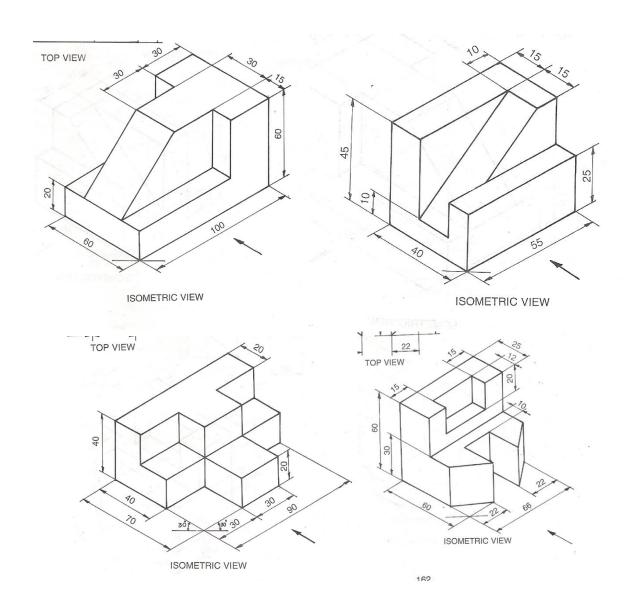
GENERAL INSTRUCTIONS:

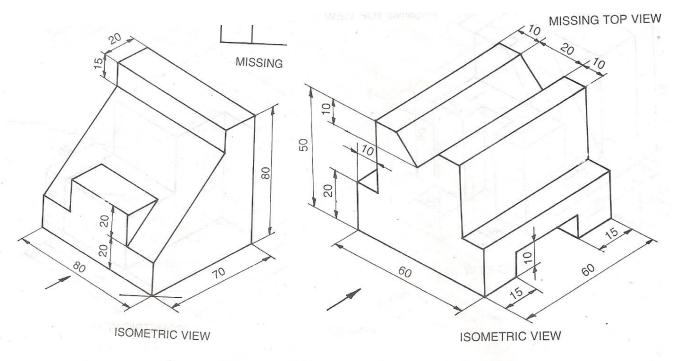
- a. In no Isometric views hidden edges or lines are to be shown.
- b. Must give dimensions in the isometric views.
- c. Give the titles in the Orthographic views/isometric projections.
- d. Must follow SP: 046-2003.

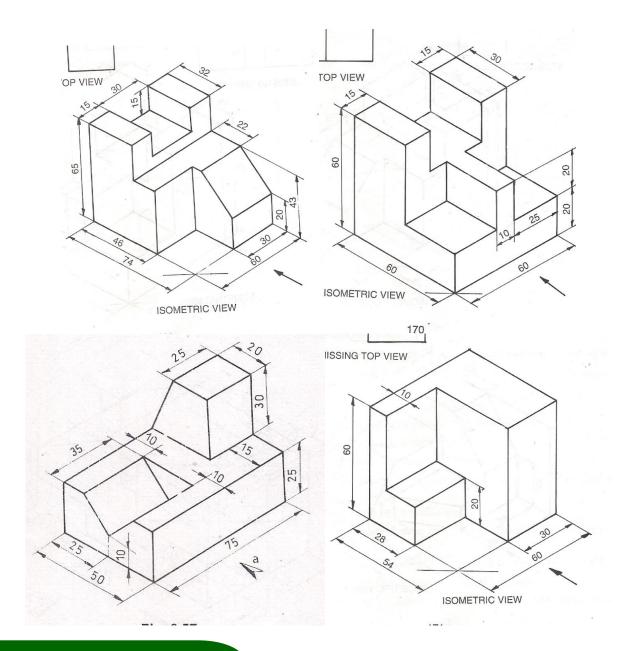
CHAPTER: MACHINE BLOCK

Q - Draw the (a) Given view, (b) Front view, (c) Top view, (d) Side view:









COMPUTER SCIENCE

Topic: Python Programming

- Q1. 'Python is an interpreted high level language'. What does it mean to you?
- Q2. What is the difference between interactive mode and script mode in Python?
- Q3. What does a cross platform language mean?
- Q4. What is the difference between a keyword and an identifier?
- Q5. How many types of strings are supported in Python?
- Q6. What factors guide the choice of identifiers in program?
- Q7. What is the error in following Python program with one statement? print ("My name is ", name)

Suggest a solution.

Q8. Write a program to obtain temperature in Celsius and convert it into Fahrenheit using formula $F = C \times 9/5 + 32$.

Q9. What will be the output of the following code?

```
x, y = 2, 6

x, y = y, x + 2

print(x,y)
```

Q10. Predict the output:

F=2 S=3 T=F*S print(F,S,T) F=F+S+T T=S*F

print(F,S,T)

Q11. Find the output of the given code:

Name = "Komal" Age = 18

print ("Your name & age are", Name + Age)

- Q12. Write a program to accept radius from the user and print its area.
- Q13. Write a program that asks for your height in centimeters and then convert your height to feet and inches.
- Q14. Write a program to read details like name, class, age of a student and then print the details firstly in same line and then in separate lines. Make sure to have break lines in these two different types of prints.
- Q15. What are data types? What are Python's built in core data types?
- Q16. What is a function? How is it useful?
- Q17. Write a function that:
- (a) Asks the user to input a diameter of a sphere (centimetres, inches, etc)
- (b) Sets a variable called radius to one half of that number.
- (c) Calculates the volume of a sphere using this radius and the formula:

Volume = $4/3 \pi x \text{ radius}^3$

(d) Print a statement estimating that this is the volume of the sphere, include the appropriate unit information in liters or quarts.

Note that there are 1000 cm3 in a liter and 57.75 cubic inches in a quart

(e) Return this same amount as the output of the function

ENTREPRENEURSHIP

I. Answer the following questions in the notebook:

Harilal is a farmer's son. He helps his father to start up an apiary in order to supplement the income from the farm. After few years he consults with an agricultural officer, who arranges for required resources to start this activity on a larger scale. He takes a loan of Rs. 60,000 from the rural bank and ties up with nearby city's shop owners to sell his yield. Harilal works very hard to get good quality product in order to have good demand in the market, thus improving his profit margins.

- a) Mention any three entrepreneurial qualities of Harilal.
- b) State any two risks which he may face in the enterprise. Suggest a method to minimise any one of the risks. 3

II. Project

Each student has to develop an 'idea' to build up a business model on the same. The idea can be of a product or a service. Preparation of 'feasibility study' and 'business plan' on the idea has to be presented. A file has to prepared, not exceeding 20 pages. (Must include the following: introduction, acknowledgement, bibliography, etc.)

III. Assignments of the topics covered in April and May to be completed in the notebook.

PSYCHOLOGY

RESEARCH PROJECT: - Students are required to prepare a Research Project on any one topic given below by using any one research method (experimental, observation, survey, interview, questionnaire etc.) taught in the class. The topics for the project are as follows:-

- Gender Bias
- Teenage Stress
- Advertising and its impact
- Eating Disorders and Body Image
- Problems faced by elderly living in a metropolitan city
- Peer Pressure and Substance Abuse
- Online gaming and its effect on Cognition
- Is Google making us an idiot?
- Any other concept from the book

GUIDELINES FOR THE RESEARCH PROJECT

- Students are required to make a separate file for the research project.
- Students may use A-4 size ruled/interleaf sheets
- Students are free to create an interview schedule, questionnaire, etc. for their research on their own or may use some tools available online
- Students are required to research on the selected topics using the internet, magazines, journals, newspapers etc. and support their findings with the researches available.
- The file should be neatly covered and beautifully presented.

<u>ASSIGNMENT BOOKLET:</u> Students are required to complete the questions of chapter 1 and 2 from the assignment booklet in their registers.

LEGAL STUDIES

Assignment Booklet questions from Chapter 1 to 4 of Unit 1 are to be done.

Students are also required to research on facts, issues and judgments of any 5 case laws from their syllabus for their upcoming project.

Holiday Homework must be done in a separate register and is to be submitted by 2nd July, 2019.

MATHS

The assignments for the following topics are to be done –

- 1 SFTS
- 2. RELATIONS AND FUNCTIONS
- 3. TRIGONOMETRIC FUNCTIONS

^{*}All the trigonometric identities to be written 10 times.

CHEMISTRY

Assignments of the following chapters to be done from Assignment Booklet:

- 1. SOME BASIC CONCEPTS IN CHEMISTRY
- 2. STRUCTURE OF ATOM

PHYSICS

- Do complete solution of assignment given in assignment booklet based on Units and Dimensions in separate A-4 size sheets to be submitted positively on 2nd July.
- In order to empower students and enable them to become future technology creators and innovators by developing indigenous solutions to the local problems they see around them, students are given an opportunity to put on their thinking caps, suggest ideas/solutions and reskill them.

Students should submit their idea/content in the form of a write up (atleast 500 words) sharing proposed solution on any of the following core theme areas-

- Health and Wellness,
- Environment,
- Infrastructure,
- Women Safety,

- Disability,
- Travel.
- <u>Digital Literacy</u>,
- Social Welfare

Submit detailed synopsis on 2nd July positively. You may follow steps mentioned below to develop your synopsis –

- Identify a problem in your local area pertaining to given core themes.
- ☐ Suggest a solution to the problem identified.
- ☐ Write a brief account of the problem and the possible solution.

Selected students will be given opportunity to be further guided by the mentors from NITI Aayog and make their prototypes in the month of July during Atal Tinkering Fest.

ECONOMICS

TOPIC - COLLECTION AND ORGANISATION OF DATA

Part - I

Complete all questions from the assignment booklet from the following topics

- i. STATISTICS Introduction (page 21-22)
- ii. Collection of data (page 23-24)
- iii. Organization of data (page 25-26)
- iv. Presentation of data (page 27–28)

STUDENTS ARE TO COMPLETE ALL AS MENTIONED ABOVE IN A4 SIZE PAPERS AND PRESNT IN A FILE.

Part - II

INSTRUCTION:

THE FOLLOWING ANALYSIS IS COMPULSORY FOR ALL AS A PART OF PROJECT WORK FOR CLASS XI. IT WILL CARRY MARKS

- Q. Prepare a questionnaire and conduct an analysis on any one topic:
- (a) Consumer Preference: Celebrity, Brand Ambassadors or Animated Characters- Out of the three what attracts the consumers the most to purchase a product
- (b) Online shopping is better than offline shopping. Agree disagree

HOME SCIENCE

1 mark questions

- Q1. What do you understand by the term Human Ecology and Family Sciences?
- Q2. How does the study of Home Science strengthen the family life?
- Q3. What do you understand by individual differences?

2 marks questions

- Q4. Discuss the role of home science for the proper development of an individual?
- Q5. How Home Science is beneficial for you as an adolescent?
- Q6. Prove that the statement "In the changed atmosphere, Home Science is also necessary for the men".
- Q7. Riya's brother goes to nursery school. Tell Riya the specialties of this stage so that she could help her brother in his adjustment.
- Q8. What do you understand by object permanence? At what age the child reaches this stage?

PRACTICALS

1. Development and characteristics of the self

THEME - STUDY OF ONE'S PHYSICAL SELF

Tasks -

- Recording of height, weight, hip, round waist, round chest/bust
- Recording of age of menarche (girls) and growth of beard and change in voice (boys)
- Recording of colour of hair and eyes.

2. Influences on identity

THEME - EMOTIONS EXPERIENCED BY SELF

Tasks -

- Making a record of your emotions experienced during a day
- Reflecting on the reasons for experiencing the emotions
- Identifying ways of handling them.

हिंदी

- 1- अप्रैल-मई माह की कार्यपत्रिका व्याकरण-पुस्तिका में कीजिए।
- 2- परीक्षा हेतु निर्दिष्ट पाठ्यक्रम का पठन-पाठन कीजिए।
- 3- परियोजना कार्य :-

निर्दिष्ट रचनाकारों का परिचय, रचनाएँ, जीवन-वृत्त, लेखनीगत विशिष्टताएँ, मुख्य वर्ण्य-विषय, रचनाओं का सामाजिक संदर्भ, वर्तमान परिस्थितियाँ, सरकार के प्रयास, उपाय एवं वर्तमान संदर्भ में अपने विचारों को प्रस्तुत करते हुए भित्ति-पत्रिका का निर्माण करें।

SEWA

All students are required to submit a detailed printed report on Sewa Project as discussed with their respective class teachers. They are supposed to make a presentation of their projects in the month of July.