- 1. "Nanotechnology plays by different rules." Explain this statement. 10th Science
- 1. Name important areas related to nanotechnology. (July 14)
- 2. Give definition of electric current and define its unit. (March 14, July 15)
- 3. Explain briefly: Coal tar and Coal gas (March 14)

OR

- (3) Write two points of differences: Lignite and Anthracite
- 4. Draw a labelled diagram showing the internal structure of human heart.
- (5) Define food chain and food web.

SECTION B

Answer the following questions in short (within the limit of 30 words): [2 marks each]

6. What are terrestrial plants? Mention the common characteristics of them.

(March 14)

- 7. Explain thigmonasty in the leaf of 'Mimosa Pudica' (touch-me-not) plant.
- 8. Explain: Strong base and Weak base
- (9) Write a short note on Heredity. (March 13, 15)

OR

- (9) In what way homologous organs give evidence for evolution? (July 13, March 16)
- (10) What are the consequences of loss of forest cover? (July 14)

SECTION C

Answer the following questions in short (within the limit of 50 words):

[3 marks each]

- 11. Explain the formation of rainbow with a neat figure.
- (12) Explain the characteristics of magnetic field lines with figure. (March 15)

OR

- 12. Explain the effect resulting, when a current carrying wire is placed in the magnetic field.
- 13) Explain Contact process for production of sulphuric acid. (July 15)
- 14. Explain the fermentation reaction and its importance. (July 13)

14. Explain cleansing action of soap and detergent. (March 16)

15) Describe menstrual cycle in female.

SECTION D

Answer the following questions in detail (within the limit of 100 words):

[5 marks each]

- 16. Derive the relationship between focal length and radius of curvature for spherical mirrors. (March 14)
- 17. What is metallic corrosion? Describe the remedies to prevent it.

OR

- 17. Describe froth floatation method with diagram.
- 18. Explain the processes of absorption of digested food, its assimilation and egestion in human.

OR

18. Write the detailed information about heterotrophic nutrition and its subtypes.

- 1. How will nanotechnology help to face future challenges? (March 13, 14; July 13)
- 1. Discuss any two properties of carbon nanotube. (March 14)
- 2. Write Faraday's laws of electrolysis. (March 15)
- 3. Explain occurrence of methane and its preparation. (July 14)
- 3. What is isomerism? Write the name and the formula of isomers of butanc.
- (March 13, 16; July 14) 4. Give two points of difference between Arteries and Veins. (July 14, March 16)
- 5) By which method is the domestic garbage disposed? (March 13)

SECTION B

Answer the following questions in short (within the limit of 30 words): [2 marks each] 10

- 6. How are artificial satellites useful in communication? (July 14)
- 7. State the function of testosterone and estrogen hormones.
- 8. What is neutralisation reaction? Write two neatralisation reactions.

(July 13, March 14)

- 9) Explain how fussils provide evidence of evolution.
- (9) Name four varieties of vegetables which have been produced from wild cabage by the process of artificial selection. (July 14)
- 10) What is wildlife? What is its importance? (July 13)

- 11. Explain the function of main parts of human eye by drawing a simple sketch of it. (July 14)
- 12. Write a short note on fuse. (July 13, 14)

OR

- 12. What safety measures should be fake taken during the use of electricity?

 (March 13, 14, 16; July 13)
- (13) Explain the industrial preparation of ammonia by Haber's process. Write two physical properties of ammonia. (March 13, 14)
- 14. Describe Fischer Tropsch process in the manufacture of propanone with equation and two uses. (March 13, July 14)

OR

14. Write a short note on detergents. (July 14, 15)

(15.) Explain female reproductive organs. (March 14)

SECTION D

Answer the following questions in detail (within the limit of 100 words): [5 marks each]

- 16. Explain the principle, construction and working system of astronomical telescope with neat diagram.
- 17. State the various stages involved in metallurgy, give brief information of each stage.

 OR
- 17. Explain the extraction of iron by Blast furnace. (July 13)
- 18. Draw the labelled diagram of human digestive system and explain it. (March 14)

 OR
- 18. What is nutrition? Explain, with diagram, the process of nutrition in amoeba.

 (March 13, 14; July 14)

Answer	the	following	questions	in	short	the	limit		words):
[2 mark	cs ec	ich]							10

Explain the benefits of Nanotechnology to the health sector of human beings.
 (March 13, July 15)

OR

- 1. Write the four improvements expected in the future due to Nanotechnology.

 (July 13)
- If an electric bulb is connected to 220 V line draws an electric current of 0.5 A.
 then what will be the resistance of filament of the bulb? (July 13)
- (3) Write the industrial name of Ethyne with its uses. (March 13, 16)
- 3) What is called fossil fuel? Write its uses.
- 4. What is lymph? Explain its constitution. (March 15)
- (5) What are global problems? Write the global problems faced by living organisms. (July 13, 14, 15; March 14)

SECTION B

Answer the following questions in short (within the limit of 30 words):

10

- 6. What is solar system? Write the names of the planets of the solar system in sequence. (July 13, March 16)
- 7. What is a reflex action? Write two examples of reflex action. (March 14, 15)
- 8. Explain Arrehenius acid-base theory giving example.
- 9. Explain classification of living organisms on the basis of evolution. (March 14)
- 9. The characters are under the control of genes. Explain giving suitable examples.
- 10. Write the importance of forest. (March 15)

SECTION C

Answer the following questions in short (within the limit of 50 words):

[3 marks each]

- 11. State the defects of vision in human eyes and its remedies. Explain the defect of Myopia and remedies to control it. (March 13)
- 12. Explain the working of electric motor by drawing the diagram.

OR

12. Describe Oersted's experiment which shows that magnetic field is linked with electric current.

5

Explain with diagram, the method for preparation of dihydrogen gas in laboratory. (July 14, March 16)

14. Explain the modern method of industrial production of acetic acid. Also write any two properties and uses. (March 15)

14. Write the oxidation, reduction and addition reaction of methanal with hydrogen cynide.

15. With the help of a diagram, explain sexual reproduction in flowering plants. (March 13)

SECTION D

Answer the following questions in detail (within the limit of 100 words): [5 marks each]

- 16. Derive the formula for spherical mirror $\frac{1}{u} + \frac{1}{v} = \frac{1}{f}$. (July 13)
- 17. What is concentration of ores? Explain the process with diagram by which metallic ore with sulphide as an impurity is purified. (March 13, 14; July 14, 15)

OR

- 17. What is refining of metals? Explain, with diagram, the method of electrolysis by which copper is purified. (March 13, 16)
- 18. What is respiration? Explain the process of respiration in human beings. (March 13, July 13)

OR

18. What is mode of nutrition? Explain in detail two main modes of nutrition giving examples. (July 15) 6

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SD-VC
CHAP:-1 STD-X (maths)
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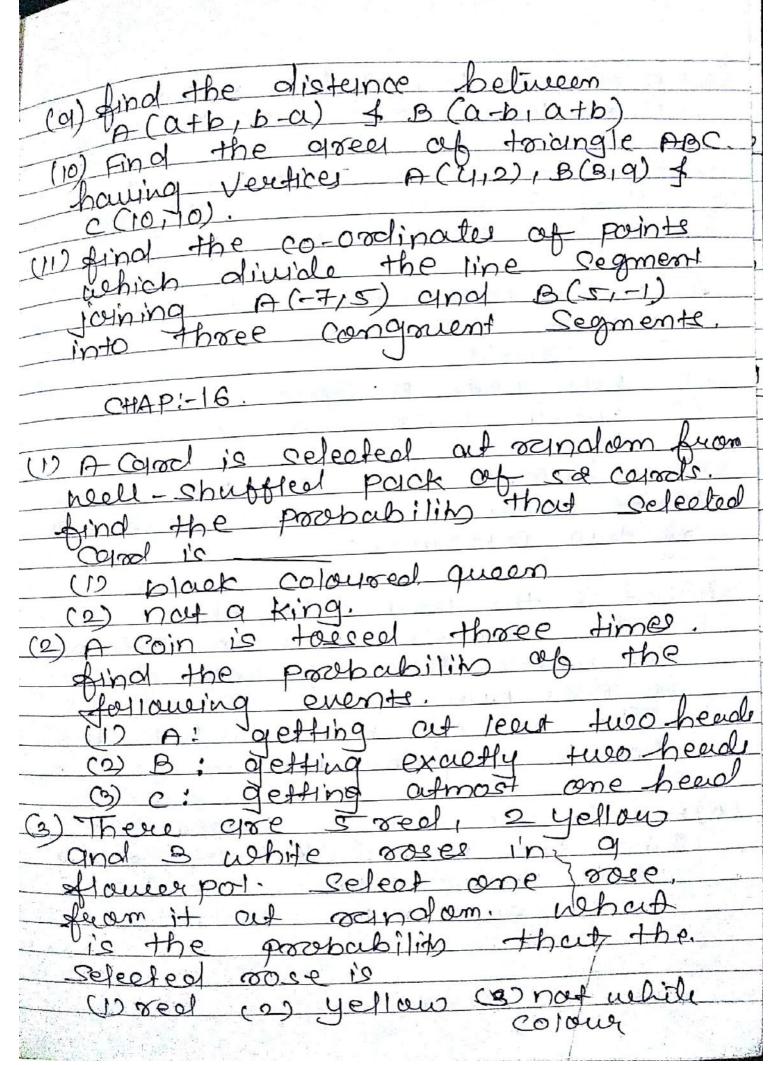
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CHAP:-LS
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- gueg. 64 62 77 300 400-500 500-600
66 50
Cz). The marks obtained by so students Of class 10 out of 80 marks Of given in the start
John Marks

frequency distribution
Oluss 0-10 10-20/20-30/30-40/40-50/50-60/60-70/70-80 fi 2 5 8 16 9 5 3 2 Final the median.
(a) The median of 125 obs. for the given frequency distribution is 22.12. Find missing frequencies & and &2.
Class 0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 fi 3 8 12 / 1 35 21 42 6
40-44
(7) For the duty l=5, to=2, f1=8, f2=2 and c=2, find its mode.
(8) Find the mean of the following ferequency distribution
Claus 40-50 50-60 60-70 70-80 80-90 90-100 ti 5 10 20 9 6 2
(a) Find the median of the following frequency distribution.
class 10-20 20-30 30-40 40-50 50-60 60-70 70-80 8B-c ti 9 11 15 &4 19 9 8 5

(10) The median class is 25-40 of a			
Commulative Lucemency distribution			
Commulative fuequency distribution with 45 obs. and class-length			
5. The feeg is 10 and Commulating			
frequency of the class. Preceding			
the median class is 15. Them			
find the median of the dater			
- 11 TT P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
(11). The following duta gives the			
information of 287 electric			
bulbs (in hours) de tollans.			
spind the model life at the			
- OCO DODS			
Ligein			
hours. 0-20 20-40 40-60 60-80 80-100 100 20			
No ob			
electric bulbs 26 31 35 42 82 71			
(12) Engl 11 0			
(12). Find the mean of the following			
step-deviation method			
Clars 40-50 50-60 60-70 70-80 80-90 90-100			
fi 5 10 20 9 6 2			
(13) Find made for the following			
given data			
Class 20-29 30-39 40-49 50-59 60-69			
4 20 20			
# 1 1S 1 20 1 30 1 10			
보이면 하면 보고 있다면 보면 보면 보는 사람들이 되었다. 그렇게 다른 사람들이 되었다면 보다 보다 되었다면 보다.			

(14) The meets of the following fiveq. distribution of 100 obs. is 148 Find missing duequency fi and of
eluss 10-49 50-99 100-149 150-199 200-249 fi 10 15 \$1 20 \$2 15
250-299 300-349 2 12 2
(15) The median of 230 obs. 1's 46. Find a and b.
Class 10-20 20-30 30-40 40-50 50-60 60-70 70-80 ti 12 30 a 65 b 25 18
(16) Find the mode for the following frequency distribution
Clar 4-8 8-12 12-16 16-20 20-24 24-28 41 9 6 12 7 15 3
(17) The mean of the following fueq. distribution is 350. find the missing fuequency
Shee 100-200 200-300 300-400 400-500 508-0 600- fi] 5 3 3 — 2 1

|--|

(22) 5	inclothe mean at the seequency distribution	following
Class	10 15 30 20	20 250 300 250 250
(23) ster	find the median of the	Lallaneing
class	0-100 100-200 200-300 300-40 64 62 84 72	66 52
(24) the	For the duty set, z-re mean is 20 then fina lue of mode	1 = 2.5, 46 1 the
Sost,	lue of model	

Exercise Unit - 1

Part - B

Section A - Answer in Brief (2 marks each)

1.Write a note on the Negritoit(Habsi) tribe that came to India.

2. Write a note on the Australoid(Nishad) tribe that came to India.

3. Write a note on the Mongoloid and the tribes that came from Central Asia.

4. How has the Indian landscape added to its culture?

5. How can it be said that Indian's love nature and animals from ancient times?

Section B - Answer in Detail (3 marks each)

1. Explain the meaning of Culture and give its details?

2. Explain the meaning of Natural Heritage and state what does it comprise of?

3. Write about the Cultural heritage of India. OR Explain in Detail the Cultural Heritage of

4. Write a note on the Dravidians and Aryans

Explain our constitutional duties for preservation and conservation of Heritage.

uancers.

	Marks 3
Uni	t 2 Part - B
1. 2. 3. 4.	Section A - Answer in Brief. (2 marks each) What do you know about the ancient art form of clay? Give information regarding the ancient art form of Bhavai. Write about the ancient art form of Patola weaving. Write a note on the art form of embroidery.
	를 되는 그리면 얼마를 받는 것으로 하는데 보고 있는데 보고 있다. 그리는 그리는 그리는 그리는 그리는 그리는 중에 바다 바다를 보다 그렇게 얼마를 먹는다.
1. 2. 3. 4.	Section B - Answer in Detail (3 marks each) Which are the different texts of the ancient art forms of Music? Describe the art forms of Painting. Explain the ancient art form of drama. Write a note on Garba and Garbis.
5.	Describe the art of Diamond, Bead work and Enamel work of India and Gujarat.
	경에 가는 없는 것이 있는 것이다. 경기 경기 전략하다 전략 사람들은 사람들이 되었다. 그 사람들이 되었다. 그 사람들이 되었다. 그 것이 되었다.
1.	Section C - Answer in Detail (5 marks each) What is the origin of the art form dance? Describe each of them.

Part - B

Section A - Answer in Brief. (2 marks each)

Explain - 'The Gupta period is called the golden period of art.' What is meant by architecture and sculpture?

Write a note on the architecture of Gopuram.

Lothal was an important port of Gujarat. Explain. Write a note on Pallava architecture and Chariot temples.

Section B - Answer in Detail (3 marks each)

Write a note on Dholaveera

Short note on Sun temple of Modhera

Write a note on the Pillar of Sarnath.

Write the meaning of Stupa and discuss its features.

Write a note on Harappa.

Section C - Answer in Detail (5 marks each)

Give details regarding the town planning and drainage system of the ancient city of

Mohen-jo-daro.

Discuss about the caves of Gujarat.

15

	사람들은 사람들은 10mm Head (10mm) 사람들은 10mm Head (10mm) 10mm Head (10mm) Head (10mm) Head (10mm) Head (10mm) Head (10mm)
	Unit 4 Exercise Part B- Marks 35
-	Section A – Answer in Brief (2 marks) 1. Write a note on the Rigveda. 2. What information is a signed as the sig
	4. Write a note of Awadhi literature or Karnataka Literature.5. Write a note on Gujarati literature.
	1. Write a short note on Amir Khusro. 2. Write a note on the literature of the Market Basis decision.
	 Write a note on Takshashila University. Write a note on Nalanda University. Give information about Vallabhi University.
	Section B - Answer in Detail (5 marks) 1. Describe Medieval Literature 2. Describe Ancient Literature

Unit	5 - Exercise	Marks	20
	Part - B		35
Section 1. 2. 3. 4. 5.	on A/B - Answer in Brief. (2 marks each) Write a note on discoveries made by Aryabhatta in Mathematics. Give the meaning of science and technology. Write about the contribution of Nagarjuna in the field of chemistry. Write about the scientific heritage of ancient India.	1	LO
Section 1.	Write contribution of India in the field of astrology. On C - Answer in Detail (3 marks each) Write about the contribution made by ancient India in metallurgy. Write about the development in the devel	ergoverg.	.5
2. 3. 4. 5.	Write about the development in chemistry achieved by ancient India. Which information does Vaastu Shastra contain in it? What contribution was made in ancient India in the field of Astronomy a Write a short note on: Astronomy of ancient India.		
Section 1.	on D - Answer in Detail (5 marks each) Discuss ancient India's medical science and surgery. Write about the contribution of ancient India in the field of Mathematics	del 1564 61, 161	

Part- B Section A- Answer in Brief (2 marks each) 1. What is meant by a resource and describe its usages? 2. Write a note on Mountain soil. 3. Write a note on Desert soil. 4. Write a note on Red soil. OR Write a note on Laterite soil. 5. How can soil erosion be stopped in arid regions and on mountains? Section B- Answer in Detail (3 marks each) 1. Write a note on Alluvial soil. 2. Write a note on Black soil. 3. State the remedies to prevent soil erosion. 4. Write a note on the type of resources. 5. What is meant by soil conservation and state the remedies of soil conservation

Unit 11

Par	t- B Part B - Answer the following questions	Mark	s 2
1. 2. 3.	Section A- Answer in Brief (2 marks each) Which are the sources of water in India? Why are irrigation facilities needed in India? Describe underground water as a resource in India?		10
4. 5.	Explain the division of regions under irrigation in India? What is a Multipurpose project?	Fines Describing out 1881 - And Proposite price with Larry S.	12
1. 2. 3.	Section B- Answer in Detail (3 marks each) Describe the rivers of India? Why has the water crisis developed in India? Give information about rain water harvesting. What steps should be followed for water management?	STATE OF STA	12
4.	Wilde Steps Short-		

unit 12 part- B Part B - Answer the following question	
Section A -Answer in brief (2 marks each) 1. 'Modern Age is known as Mineral Age'. Why? 2. Write a note on Manganese. 3. Mention the utility of copper. 4. Write a note on Wind Energy. 5. Why there is an increase in the usage of non-convergence.	10
Section B -Answer in detail (3 mark each)	15
 Explain the classification of Minerals. Write a note on Solar Energy. State the remedies to preserve the minerals. Give detailed information about mineral oil. Write a note on electricity or Write a note on coal. 	

Unit 15- Exercise part- B- Answer the following questions	Marks 35
CACTION A- Angues	s?
 Section B- Answer in Brief (2 marks each) What are the features of Market Mechanism? Differentiate between Economic and Non-Economic What are the limitations of Market Economy? Benefits and Limitations of the Socialist System. Feature of Mixed Economic System followed by Indian 	ic activity.
Section C- Answer in Detail (3 marks each) 1. Difference between Economic Growth and Econom 2. What are the benefits and limitations of Socialist 3. Features of a Developing Economy. (Any six) 4. Difference between the Private and Public Sector 5. Discuss the distribution of factors of production.	System?

Unit 16 Exercise Part - B - Answer the following questions Section A: Answer in Brief (2 marks each) 1. When and why did-economic reforms start in India? 2. Mention the methods of Privatization. 3. What is the meaning of Globalization? 4. What is the impact of WTO on the Indian Economy? 5. What is the meaning of Liberalization? Mention its benefits? Section B: Answer in Brief (3 marks each) 1. What is meant by Privatization? What are its advantages and disadvantages? 2. Explain the benefits and disadvantages of Globalization? 3. Write about the objectives and functions of the World Trade Organisation 4. Explain the strategy of Sustainable Development. 5. Which steps have been taken to conserve the environment?

Part B	
Section A- Answer	Marks 42
Section A- Answer in Brief (2 marks each) 1. What is Human Development? 2. Which new technique.	12
 Which new techniques are used to measure Human Develors. According to Human Development Report, 2015, what is the Which neighbouring countries are ahead of India in Human St. Which vaccinations are given to children under Child Vaccinations. What is Abhayam Yojna? Explain. 	ic human development is a made
Section B- Answer in Detail (3 marks each) 1. Human Development is related with which things of huma 2. Explain women welfare scheme of Indian Government chro 3. Human Development Index is affected by which things and	
4. In what way are the women discriminated in India? 5. Describe the work done in the field of health improvement	
Section C- Answer in Detail (5 marks each) 1. How is Human Development Index calculated?	15
 Describe the challenges of human development in India? Which schemes have been started by the Gujarat government. 	nment to give equality to women?