

GREENWAYS SCHOOL

MORINDA-CHAMKAUR SAHIB ROAD, RURKI HEERAN

Holidays Home-Work

Session 2023-24



Class - XI

English

1. Make PowerPoint assignment on "The portrait of a lady."
*Bring hard copy of PowerPoint.
2. Make a colourful poster on A4 sheet on topic "Encouragement for afforestation".
3. Write an article of 100 words on topic
 - (i) Importance of time Management in life of students.
 - (ii) IT development
4. Revise the whole syllabus.

Math

Make assignment of the following:

1. Draw table that shows the sign of the coordinates in eight octants.
2. Make Trigonometry Table for all the six trigonometric ratios from 0 to 360 degree.

Physics

(1) Do revision of following units:-

1. Physical world and its measurements.
2. Kinematics

Also make proper notes.

(2) Do the assignments on unit 1 and unit 2.

1. What is the unit of light year ?
2. write down the value of 1 AU in meter?
3. One light year is equal to how many meters?
4. Write down the dimension formula of following physical quantities:-

angular momentum ,planck's constant ,gravitational constant, torque, power surface tension, pressure, stress, and modulus of elasticity.

5. write down the dimension formula off some physical quantities which have the same dimensions .,
- 6.candela is the unit of which physical quantity.
- 7.parsec is the unit of.....
8. write down the number significant figure in 0.006 m².
- 9.Non zero vectors A and B are perpendicular to each other ifis equal to 0.
10. A body goes 20 kilometers north and then 10 kilometer towards East , find the displacement
11. A particle is moving along X axis the position of particle at any instant is given by X is equal to $(5 + 6t^2)$, where X is in meters t in second, find the velocity of the particle at t is equal to 2.5 seconds.
12. The displacement of an object at any instant is given by X is equal to $(30 + 20 t^2)$ where X is in meter and t is in second the acceleration of the object will be?
13. A ball is dropped from a height at the velocity attained by ball just before reaching the ground is what?
14. A position vector of a particle is given by $R = (1i+2j+3k)m$, find the magnitude of r.
15. Define projectile ,draw the diagram to the path of its trajectory , derive the equation of its trajectory and what path it follow during its journey , when it projected through an angle of 60 degrees with ground
Also find maximum height.
Time of flight
Horizontal range.

(3) Make working models on laws of motion.

Chemistry

Q.1. Answer the following questions:

1. Calculate the molecular mass of the following:

(i) H_2O (ii) CO_2 (iii) CH_4

2. Calculate the mass percent of different elements present in sodium sulphate (Na_2SO_4).

3. Determine the empirical formula of an oxide of Iron which has 69.9 % iron and 30.1 % dioxygen by mass.

4. How much copper can be obtained from 100 g of copper sulphate (CuSO_4)? (Atomic mass of Cu = 63.5 amu)

5. What is the concentration of sugar ($\text{C}_{12}\text{H}_{22}\text{O}_{11}$) in mol L^{-1} if its 20 g are dissolved in enough water to make a final volume up to 2 L?

6. If the density of methanol is 0.793 kg L^{-1} , what is its volume needed for making 2.5 L of its 0.25 M solution?

7. Express the following in scientific notation:

(i) 0.0048 (v) 6.0012 (ii) 234,000 (iii) 8008 (iv) 500.0

8. How many significant figures are present in the following?

(i) 0.0025 (ii) 208 (iii) 5005 (iv) 126,000

(v) 500.0 (vi) 2.0034

9. Round up the following upto three significant figures:

(i) 34.216 (ii) 10.4107 (iii) 0.04597 (iv) 2808

10. A compound on analysis was found to contain C = 34.6%, H = 3.85% and O = 61.55%. Calculate the empirical formula.

11. How many protons and neutrons are present in the following nuclei

12. Yellow light emitted from a sodium lamp has a wavelength (λ) of 580 nm. Calculate the frequency (ν) and wave number ($\bar{\nu}$) of yellow light.

13. What is the number of photons of light with wavelength 4000 pm which provide 1 Joule of energy ?

14. Calculate the wavelength of an electron moving with a velocity of $2.05 \times 10^7 \text{ m s}^{-1}$.

15. Which of the following are iso-electronic species ?

Na^+ , K^+ , Mg^{2+} , Ca^{2+} , S^{2-} , Ar .

16. Show that the circumference of the Bohr orbit for the hydrogen atom is an integral multiple of the de Broglie wavelength associated with the electron revolving around the orbit.

17. A certain particle carries 2.5×10^{-16} C of static electric charge. Calculate the number of electrons present in it.

18. Neon gas is generally used in sign boards. If it emits strongly at 616 nm, calculate :

(a) frequency of emission (b) the distance travelled by this radiation in 30s (c) energy of quantum (d) number of quanta present if it produces 2 J of energy.

19. The quantum numbers of six electrons are given below. Arrange them in order of increasing energies. List if any of these combination(s) has/have the same energy

(i) $n = 4, l = 2, m_l = -2, m_s = -1/2$

(ii) $n = 3, l = 2, m_l = 1, m_s = +1/2$

(iii) $n = 4, l = 1, m_l = 0, m_s = +1/2$

(iv) $n = 3, l = 2, m_l = -2, m_s = -1/2$

(v) $n = 3, l = 1, m_l = -1, m_s = +1/2$

(vi) $n = 4, l = 1, m_l = 0, m_s = +1/2$

20. Indicate the number of unpaired electrons in :

(a) P (b) Si (c) Cr (d) Fe and (e) Kr.

PRACTICAL FILE:

1. Cutting glass tube and glass rod.

2. Bending a glass tube.

3. Crystallization of impure sample of any one of the following:
Alum, Copper Sulphate, Benzoic Acid.

4. Determination of pH of some solutions obtained from fruit juices, solution of known and varied concentrations of acids, bases and salts using pH paper or universal indicator.

5. Determination of strength of a given solution of hydrochloric acid by titrating it against standard Sodium Carbonate solution.

PROJECT:(do any one)

- Checking the bacterial contamination in drinking water by testing sulphide ion
- Study of the methods of purification of water
- Testing the hardness, presence of Iron, Fluoride, Chloride, etc., depending upon the regional variation in drinking water and study of causes of presence of these ions above permissible limit (if any).
- Investigation of the foaming capacity of different washing soaps and the effect of addition of Sodium carbonate on it
- Study the acidity of different samples of tea leaves.
- Determination of the rate of evaporation of different liquids
Study the effect of acids and bases on the tensile strength of fibers.
- Study of acidity of fruit and vegetable juices.

Biology.

1) Do revision of the following chapters.

- 1) The living world
- 2) Biological classification
- 3) Plant Kingdom
- 4) Animal Kingdom

Also make proper notes:

2) Do the assignments:

- 1) How is a key helpful in the identification and classification of an organism.
- 2) Define a taxon. Give some examples of Texas at different hierarchical levels.
- 3) What is the nature of cell- walls in diatoms.

- 4) How are viroids different from viruses?
 - 5) Find out what do the terms algal bloom and red tide signify.
 - 6) What are the characteristics feature of Euglenoids.
 - 7) State two economically important uses of
 - 1) Heterotrophic bacteria
 - 2) Archaeobacteria
 - 8) Write a note on economic importance of algae and gymnosperms.
 - 9) How would you distinguish monocots from dicots?
 - 10) Differentiate between red algae and brown algae.
 - 11) How important is the presence of air bladder in Pisces?
 - 12) What is the difference between direct and indirect development?
 - 13) All vertebrates are chordates but all chordates are not vertebrates. Justify the statement.
 - 14) What are the modifications that are observed in birds that help them fly?
 - 15) What are the peculiar features that you find in parasitic platyhelminthes?
- 3) Maintain practical files.

Accountancy.

- Q 1 To collect the amount deposit slip, amount withdraw slip ,DD slip from the bank ,fill it and paste it on the notebook.
- Q 2 How to fill the self cheque in cheque book.
- Q 3 How much amount you can withdraw from ATM machine at a one time.
- Q 4 To make the chart of accounting process.
- Q 5 The unsold goods left at the end of the year is called.
- Q 6 Explain briefly any five advantages of accounting.
- Q 7 Who are the internal users of accounting information?
- Q 8 Write the three limitation of accounting in details.

Q 9 Explain the five function of accounting.

Q 10 Define the revenue and capital expenditure in details.

Q 11 What are current assets explain in details.

Q 12 Give two examples of tangible and non tangible assets.

Q 13 Godrej ltd. Imported from Germany one machinery for sale in India and another machinery for production purpose. Will you treat them good or fixed assets?

Q14 Explain the current and non current liabilities in details?

Q 15 Revise the chapter of meaning and objective of accounting and basic accounting terms in details.

Q 16 To read the newspaper economics time daily and write the main headlines on the notebook.

Q 18 To collect the form of RTGS from any bank and fill it .

Q 19 Write the difference between book keeping and accounting.

Q 20 To see the cheque book and pass book of your parents observe it.

Economics

Q 1 To make the chart of stages of statistical study.

Q 2 What is meant by descriptive statistics?

Q 3 What is meant by inferential statistics?

Q 4 Distinguish between quantitative and qualitative data and give some examples of both.

Q 5 Define the stages of statistical study and the related statistical tools.

Q 6 Define the producer and production.

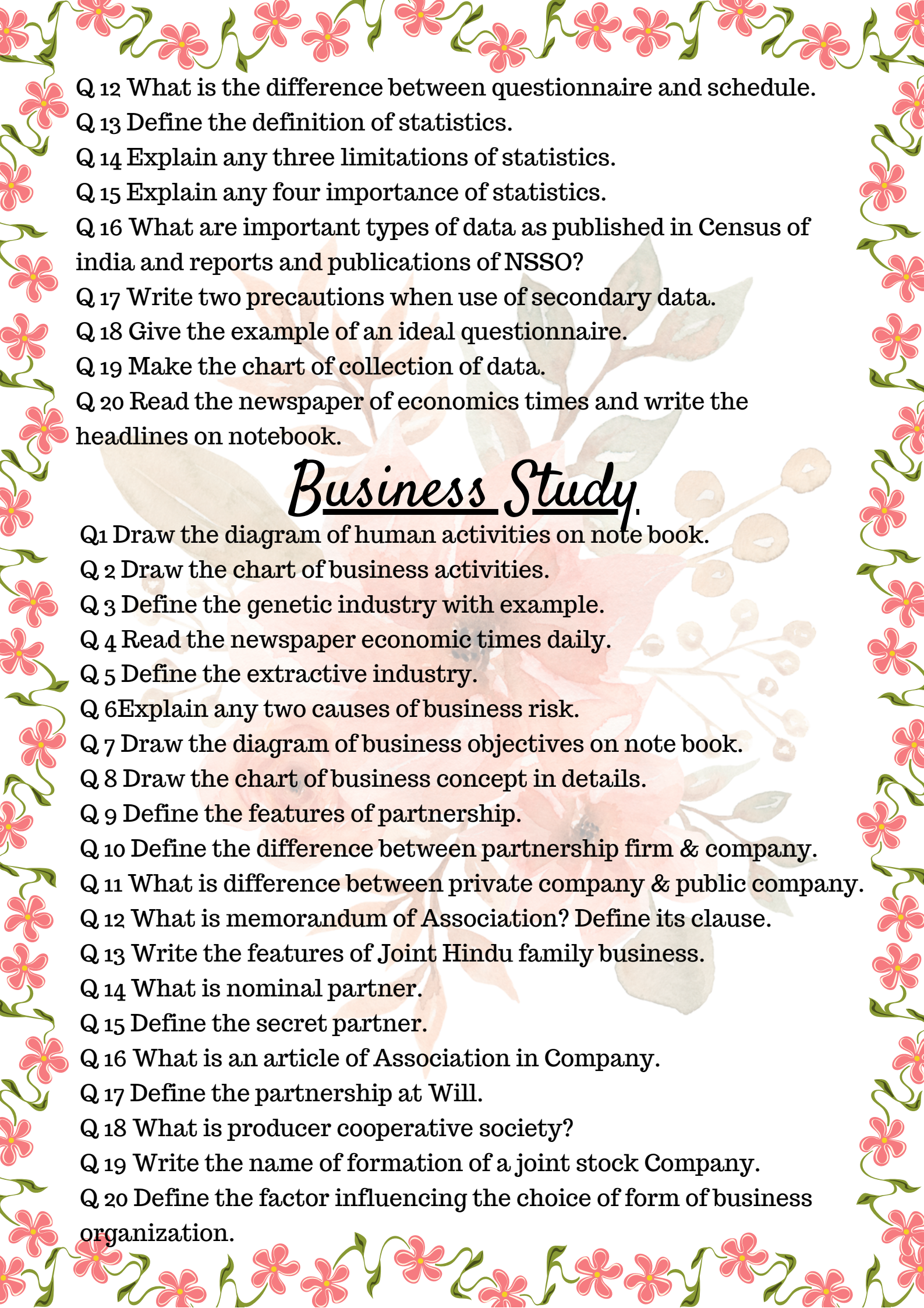
Q 7 Explain the features of statistics.

Q 8 Data collected for the first time from the source of origin is called.

Q 9 Define the primary data and secondary data.

Q 10 What is meant by direct personal investigation?

Q 11 Define the terms investigator, enumerator?

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- Q 12 What is the difference between questionnaire and schedule.
- Q 13 Define the definition of statistics.
- Q 14 Explain any three limitations of statistics.
- Q 15 Explain any four importance of statistics.
- Q 16 What are important types of data as published in Census of india and reports and publications of NSSO?
- Q 17 Write two precautions when use of secondary data.
- Q 18 Give the example of an ideal questionnaire.
- Q 19 Make the chart of collection of data.
- Q 20 Read the newspaper of economics times and write the headlines on notebook.

Business Study

- Q1 Draw the diagram of human activities on note book.
- Q 2 Draw the chart of business activities.
- Q 3 Define the genetic industry with example.
- Q 4 Read the newspaper economic times daily.
- Q 5 Define the extractive industry.
- Q 6 Explain any two causes of business risk.
- Q 7 Draw the diagram of business objectives on note book.
- Q 8 Draw the chart of business concept in details.
- Q 9 Define the features of partnership.
- Q 10 Define the difference between partnership firm & company.
- Q 11 What is difference between private company & public company.
- Q 12 What is memorandum of Association? Define its clause.
- Q 13 Write the features of Joint Hindu family business.
- Q 14 What is nominal partner.
- Q 15 Define the secret partner.
- Q 16 What is an article of Association in Company.
- Q 17 Define the partnership at Will.
- Q 18 What is producer cooperative society?
- Q 19 Write the name of formation of a joint stock Company.
- Q 20 Define the factor influencing the choice of form of business organization.

Political Science

Make project on the topic of
Silent Features of Indian Constitution.

Revise:- Chapter No.1 Indian Constitution how why and its
philosophy.

Chapter No.2: Election and Representation

Punjabi

ਪੰਜਾਬ ਦੇ ਵਿਆਹਾਂ ਵਿੱਚ ਸੁਹਾਗਾ, ਘੋੜੀਆਂ ਅਤੇ ਸਿੱਠਣੀਆਂ ਦਾ ਮਹੱਤਵ ਪ੍ਰਗਟ ਕਰਦੇ ਹੋਏ ਪ੍ਰੋਜੈਕਟ ਤਿਆਰ ਕਰੋ।

ਯਾਦ ਕਰੋ: ਪਾਠ-ਪੁਸਤਕ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ

ਪਾਠ ਨੰਬਰ 1 ਸੁਹਾਗਾ, ਪਾਠ ਨੰਬਰ 2 ਘੋੜੀਆਂ

ਪਾਠ ਨੰਬਰ 3 ਸਿੱਠਣੀਆਂ

ਪ੍ਰੀਤ ਕਥਾਵਾਂ: ਹੀਰ ਰਾਂਝਾ।

ਅੰਗ੍ਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਅਨੁਵਾਦ।

Physical Education

1.Physical fitness test

2.Athletics

3.Basketball

4.Football

5.Kabaddi

6.Kho-Kho

7.Volleyball

8.Handball

9.Hockey

10.Cricket