

XI Management:

Accountancy

Refer to the question set given.

नेपाली

Refer to the question set given.

English

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Hotel Management

1. Define hospitality.
2. Who is the tourist & What are its characteristics? Point out.
3. Explain three phrases of tourism evolution in short.
4. Highlight five characteristics of tourism.
5. Name any five natural & cultural attractions of Nepal.
6. Name any 10 tourism activities of Nepal.
7. List all five star hotels of Nepal.
8. Draw the organization chart of large and medium hotel.
9. Essential attributes of F/o personnel.
10. Define tourism and its component in details.

Computer

Economics

Business Studies

1. Explain the objectives of business.
2. What are the components of business? Explain each of them.
3. Write various functions of business and explain each of them.
4. “World without business is not possible in this era of globalization”. In the light of this statement, discuss the importance of business.
5. State and explain the requisites of business success.
6. Describe the factors that you would consider before starting new business.
7. What is business environment? Explain the internal environment of business.
8. What are the external factors of business environment? Explain.
9. What is sole trading concern? What are the differences between sole trading concern and partnership firm?
10. Explain the merits and demerits of sole trading concern.
11. What are the social responsibilities of business? Describe the responsibilities of business towards various groups.
12. Explain the evolution of business.
13. What is partnership firm? What are the characteristics of partnership

1. Write the importance of computer technology in modern age.
2. What is digital computer? Explain its types.
3. Define the term hardware, software and firmware.
4. Write the features of third generation of computer.
5. Write the features of fourth generation of computer.
6. What is micro computer? Explain the types of micro computer.
7. Write the differences between analog and digital computer with their signal diagrams.
8. What is super computer? Write the application areas of super computer.
9. Differentiate between XT and AT computer.
10. Explain mobile computing. Write its importance in modern age.

[Project Assignment: Prepare a website of an organization that contains browsing menus 'HOME', 'ABOUT US' 'OUR SERVICES', 'GALLERIES' and 'CONTACT US' and submit the project folder, copying it in CD/DVD.]

1. Explain the subject matters of economics clearly.
2. Write about PPC with table and figure.
3. Differentiate between GDP and GNP.
4. What are the indicators of economic development?
5. Write about scarcity and choice.
6. Write about natural resource management.
7. What is dual economy? Explain.
8. What are the features of capital?
9. What is organization? What are its types?
10. Write the features of land.

XI Science:

Physics

Mathematics

English

A) Long Questions.

1. Describe a method to determine the linear expansivity of solid. Can the cubical expansivity be derived from this value?
2. Distinguish between real and apparent expansion of liquid. Describe with mathematic detail, a method to determine real expansivity of a liquid.
3. What is meant by reversibility of light in refraction? Derive the relation between relative and absolute refractive index.
4. Derive the mirror formula in the case of concave mirror. Also discuss the nature of the image formed due to the object placed at different positions.

B) Numerical.

5. Find the result of mixing 0.8 kg of ice at -10°C with 0.8 kg of water at 80°C .
6. An aluminum rod when measured with a steel scale, both being at 25°C appears to be 1 m long. If the scale is correct at 0°C , what will be the length of the rod at 0°C ? (linear expansivity of aluminum = $26 \times 10^{-6} \text{ K}^{-1}$ and of steel = $12 \times 10^{-6} \text{ K}^{-1}$)
7. A small object placed in front of a concave spherical mirror gives an image that is real and four times the size of the object. When the object is moved 10 cm towards the mirror, a virtual image of the same magnification is formed. Find the focal length of the mirror.
8. A substance takes 3 min in cooling from 50°C to 45°C and takes 5 min in cooling from 45°C to 40°C .

C) Short Question.

9. Why do, in summer, roads often appear to be covered? What is the temperature of the surroundings? How much time will it take to cool this substance from 40°C to 35°C with water when seen from the distance?
10. Fishes stay alive in frozen pond in winter. Explain.

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Zoology

1. Describe the relation of biology with other sciences.
2. Describe various life processes in detail with examples.
3. What is biodiversity? Describe its levels and significances.
4. Elaborate the structure of *Paramecium*.
5. Describe the process of conjugation in detail.
6. Explain the sexual cycle of *Plasmodium*.
7. Describe the asexual cycle of *Plasmodium*.
8. Describe the external apertures of earthworm along the structure of body wall.
9. What is alimentary canal? Describe it with reference to earthworm.
10. Elaborate the causes, effects and preventive measures of air and water pollution.

XI Science:

Chemistry

- Write short notes on structural isomerism.
- State and explain Dalton's law of partial pressure. Write its application.
- 10gm of CaCO_3 reacts with 7.665gm of HCL to produce CaCl_2 , H_2O and CO_2 .
 - Find the limiting reactant
 - Find the no. of mole of unreacted reactant left over.
 - What mass of CaCl_2 is produced?
 - Calculate the no. of molecules of H_2O produced.
- Write the IUPAC name of the following compounds.
 - $(\text{CH}_3)_2\text{CHCH}_2\text{COOH}$
 - $\text{CH}_3\text{CH}_2\text{CH}_2\text{Cl}$
 - $\text{CH}_3\text{CH}_2\text{-CHOHCH}_2\text{CH}_3$
 - CCl_3CHO
- Write the structure of the following compound.
 - Ethane diol
 - Propanoic acid
 - Butane-1,4-diol
 - 2,3-dimethyl butane.
- How would you manufacture ammonia by Haber's process?
- Write short note on manufacture of nitric acid.
- State Boyle's law and draw sketch graph of P against V. Derive the relation $PV=nRT$.
- Balance the following reaction by oxidation number method.

$$\text{Zn} + \text{HNO}_3 \rightarrow \text{Zn}(\text{NO}_3)_2 + \text{NO} + \text{H}_2\text{O}$$
- A mixture of ozone and oxygen containing 20 % by volume of ozone diffused through a porous plug in 172 seconds, while the same volume of pure oxygen took 164 seconds to diffuse through the same plug. Calculate the relative density of ozone.

Computer

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Botany

- What is physiology?
- Write some functions of protein.
- Describe the structure of DNA & RNA with figure.
- Write some importance features of iron.
- Describe vegetative structure of marchentia.
- Draw the structure of gemmae and describe its important feature.
- Compare the gametophytic stage of fern and funaria.
- Compare the sporophytic of marchentia and funaria.
- Describe alternation of generation process in case of fern.
- Give detail amount of lifecycle in case of marchentia.

XI Law:

Gen. Pr. & Th. Of Law

- 1) What are the sources of law?
Explain them.
- 2) Differentiate between Substantive Law and Procedural Law.
- 3) Define sociological school of law.
- 4) Define socialist school of law.
- 5) What is the relation between rights and duties?
- 6) Define Rights and Duties.
- 7) Define natural school of law.
- 8) How is law related to the maximum number of happiness in the society? Explain them.
- 9) Define Historical School of law.
- 10) How do you relate the importance of law in your daily lifestyle?

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XI Law:

Constitutional Law

Refer to the question set given.

Nepalese Legal System

Nepalese Legal System

1. Define Nepalese legal system? Explain the characteristics of legal system?
2. Compare and contrast between common law system and civil law system?
3. Define concept of Hindu law? Discuss its sources?
4. Define the Hindu jurisprudence? Discuss the nature of Hindu jurisprudence?
5. Describe the importance of Nepalese legal system?
6. How our legal system is influenced by common law system?
7. Distinguish between Mitashara and Dayabhaga?
8. Define Hindu concept of justice?
9. What is property law according to Hindu law system?
10. Discuss the inter-relationship between Hindu concepts of Justice and Hindu jurisprudence?

XII Management:

Accountancy

Refer to the question set given.

Hotel Management

1. Define Reservation & point out the importance of Reservation.
2. Define tariff. What is the basis of charging room rates in hotel? Explain.
3. Point out the source of Reservation.
4. Define models of Reservation & explain any two models.
5. Make a flow chart of reservation procedure & explain ensuing for reservation.
6. Explain overbooking in detail.
7. List out manual & mechanical equipment of cleaning.
8. Name any 10 stains removal agents and identify them.
9. Explain step by step procedure of bathroom cleaning.
10. What is turndown service? Explain its procedure.

Economics

1. What is elasticity of demand? What are its types?
2. What is elasticity of supply? What are its types?
3. What is law of return to scale? Explain.
4. What is law of substitution? Explain.
5. How price and output determine under perfect competition market? Explain.
6. How price and output determine under monopoly market? Explain.
7. What is money? Write the forms of money.
8. Write the quantity theory of money clearly.
9. Differentiate between perfect competition market and monopoly market.
10. Write down short run cost curves.

English

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XII Management:

Business Studies

1. What is management? Explain the characteristics of management.
2. Write the meaning of scientific management. Describe the principles of Taylor's scientific management.
3. What is planning? Explain the steps involved in planning process.
4. Define decision-making and show the importance of decision making in management.
5. What is direction? Show its importance in management.
6. Define motivation and describe its process.
7. What is leadership? Explain managerial qualities of leader.
8. Explain the role and functions of supervisor.
9. Define controlling and show its importance.
10. What is conflict management? Suggest the appropriate technique of conflict management.
11. What do you mean by decentralization of authority? Discuss the factors affecting decentralization of authority.
12. What is communication? Discuss the principles of effective communication.
13. What do you mean by insurance contract? Discuss the principles of insurance.

Computer

1. Who is system analyst? List out the roles of system analyst.
2. What is system testing? Differentiate between white box testing and black box testing.
3. List out the different symbols used in E-R diagram with their meanings and examples.
4. What is database architecture? Differentiate between centralized and distributed database system.
5. What is computer network? Write the advantages and disadvantages of computer network.
6. Differentiate between peer-to-peer network and client/server network.
7. What is transmission media? Write advantages and disadvantages of optical fiber cable.
8. What is network protocol? List any four network protocols with their functions.
9. What do you mean by OSI reference model? Explain the different layers of OSI reference model.
10. What is signal modulation? Write about AM and FM in short.
11. Write C program to input any numbers and print its multiplication table.
12. Write C program to input any three numbers and print the smallest number among them.

[Project Assignment: Prepare a MS-PowerPoint Slide Presentation on System/Software Development phases, containing at least 15 slides and submit it copying in pen drive or CD/DVD.]

Marketing

1. What are the components of marketing mix? Explain.
2. Give the meaning of buying motives?
3. Point out two functions of warehouse.
4. Mention the component of micro and macro environment.
5. Explain briefly the evolution of marketing.
6. What is marketing? Define the various concepts of marketing.
7. What is water transport? Why is it important to a landlocked country like Nepal?
8. What is socio-cultural environment of marketing?
9. Differentiate consumer product from industrial product?
10. Discuss the importance of marketing towards firm, society and customers?
11. What is market? What are the various types of market? Explain.
12. Explain about the various factors should be considered before selection the mode of transport.

XII Science:

Physics

A) Long Questions.

1. What is specific charge of an electron? Describe and give necessary theory of J.J Thomson's experiment to determine the specific charge of an electron.
2. What is Zener diode? Explain its use and working as a voltage regulator.
3. Explain the phenomena of discharge of electricity through gases at low Pressure.
4. How is an NPN and PNP transistor formed? Explain the working of both transistors.
5. Differentiate between progressive wave and stationary wave. Derive progressive wave equation?
6. Discuss the effect of pressure, temperature and density of elastic medium on the velocity of sound.

B) Numerical.

7. What will be the change in the stopping potential for photoelectrons emitted from a source if the wavelength of incident light is reduced from 400 nm to 360 nm?
8. An oil drop of mass 3.25×10^{-15} kg falls vertically with uniform velocity, through the air between vertical parallel plates which are 2 cm apart. When a p.d of 1000 V is applied to the plates the drop moves to the negatively charged plate, its path being inclined at 45° to the vertical. Calculate the charge on the drop.
9. A man standing at one end of a closed corridor 57 m long blow a short blast on a whistle. He found that the time from the blast to the sixth echo was 2 seconds. If the temperature was 17°C , what was the velocity of sound at 0°C ?

C) Short Question.

- i) A p-n junction diode conducts electricity when forward biased and does not conduct when reverse biased. Explain.
- ii) What is the importance of Millikan's oil drop experiment?
- iii) Explain why photoelectric effect cannot be observed with all wavelengths of light.

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Zoology

1. Describe the development of frog from cleavage to formation of primary germ layers.
2. Explain the alimentary canal of human with essential diagram.
3. Elaborate the physiology of digestion of food.
4. Describe the respiratory tract of human.
5. What is pulmonary ventilation? Describe it along with the structure of human lungs.
6. Describe AIDS in detail with its symptoms, mode of transmission, treatment and preventive measures.
7. Describe tuberculosis along with its symptoms, treatment and preventive measures.
8. Describe glandular epithelial tissue in brief.
9. Elaborate the structure and function of skeletal connective tissue.
10. Describe the types, sources and biological role of protein.

Chemistry

- 1) How would you prepare primary, secondary and tertiary alcohol from aldehyde and ketone?
- 2) How would you extract copper from copper pyrite?
- 3) Write the laboratory preparation of chloroform.
- 4) Write short note on factor affecting rate of reaction.
- 5) Define rate law and rate of reaction. Write the differences between order of reaction and molecularity of reaction.
- 6) What is meant by primary standard solution? A solution of conc. H_2SO_4 contains 98% H_2SO_4 by mass.
 - a) What is normality of this solution if the density of solution is 1.82 g/cc?
 - b) What volume of conc. H_2SO_4 is required to neutralize 500 ml of 0.1 Na_2CO_3 ?
- 7) Write short note on Faraday's law of electrolysis.
- 8) Write the chemistry of blue vitriol.
- 9) State and explain Ostwald's dilution law.
- 10) Write short note on polymerization.

Mathematics

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Botany

1. What is permanent tissue? Describe xylem with figure.
2. Describe vascular bundle found in dicot stem with figure.
3. Differentiate between monocot leaf & dicot leaf.
4. Draw the structures of secondary growth in case of dicot stems & explain it.
5. What is diffusion? Describe with experiments.
6. What is transpiration? What factors are responsible for rate of transpiration?
7. How a glucose molecule enters into the mitochondria, describe with structure.
9. Describe electron transport system.
10. Describe different types of variation with its causes.

Dashain Vacation Homework – 2075

XII Humanities:

Major English

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English

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XII Humanities:

Rural Development

1. “Rural development is an urgent need for Nepal.” Justify this statement.
2. What is rural development? Why is it necessary for rural livelihood like Nepal?
3. ‘Planning is the tool for development.’ Explain this statement.
4. What is Participatory Planning Approach? Explain its objectives?
5. Differentiate between PRA and RRA.
6. Explain in detail about Modernization theory.
7. Critically evaluate dependency theory.
8. Briefly explain on data collection techniques and tools in social science research.
9. What is project? Explain the features of project.
10. What is agrarian structure of Nepal?
11. Write the land tenure system of Nepal.

General Law

- 1) What do you mean by Law? Elaborate.
- 2) What do you understand by Criminal Law?
- 3) Define concept of double jeopardy.
- 4) Differentiate between Civil and Criminal Law.
- 5) What are the offenses against person?
- 6) Define Homicide.
- 7) What do you understand by Infanticide?
- 8) What do you mean by culpable homicide?
- 9) What are the types of thefts?
- 10) Define Forgery.

Contemporary Society

- 1. Answer the following questions:**
- a. Describe about the evolution of society.
 - b. What is the structure of our new constitution?
 - c. What are the challenges of Nepalese Women Participation in Social, political and Economic Life?
 - d. Examine UN declaration of human rights in the context of Nepal.
 - e. Briefly define sustainable development and examine sustainable agenda of Nepal.
 - f. Enlist some specialized Agencies of UNO.
 - g. Define SAARC and write its objectives.
 - h. Define socialization and discuss the role of family as an agent of socialization.
 - i. Sketch the structure of judiciary, legislative and executive in Nepal.
 - j. Describe the structure of state.