Surkhet, Nepal

Final Examination-2079

Bachelor of Hotel Management (BHM)

Semester - III

| | Roll.No |
|---|--|
| Subject: Human Resource Management and Organizational Behavior Full Marks: 100 Pass Marks: 50 | Course Code: BHM 431/331 Time: 3:00 Hours |
| | |

SECTION A: MULTIPLE CHOICE QUESTIONS (1×15=15 MARKS) / (TIME: 15 MINUTES) Tick the best answers. 1. HRM practices are the important components of Model c. The Guest Model a. The Fombrum Model d. The Warwick Model b. The Harvard Model 2. Employee motivation decreases the..... c. brand position a. demand d. employee longevity b. customer churn 3.is the component of changing environment of HRM c. Organization Structure a. Workforce Diversity d. None of the above b. Social Inclusion 4. Internal hiring is all about..... c. hiring from abroad a. hiring from competitors d. hiring from similar industry b. hiring within the organization 5. does not affect organizational behavior. c. Technology a. People d. None of the above b. Environment 6.is not the component of social inclusion. c. Migration a. Gender d. Caste b. Ethnicity 7. Independent variables could be..... c. group behavior a. individual behavior d. all of above b. group behavior 8. is the lowest-level need as per the ERG Theory c. Physiological a. Existence d. Growth b. Relatedness 9. Lack of motivation factors will result in...... as per the Herzberg Theory c. No result a. Dissatisfaction d. All of above b. Demotivation 10. Motivation through effective leadership occurred by..... c. inspiring others a. sharing vision d. all of the above b. effective communication 11. Group is defined by: c. values a. abilities d. no of people b. goals

| 12 is the category of leadersh | ip skills |
|---|-------------------------|
| a. Technical skills | c. Conceptual Skills |
| b. Interpersonal Skills | d. All of the above |
| 13. Which one of the followings does fall under the demograph | ohic segmentation? |
| a. Education | c. Values and Attitudes |
| b. Migration | d. Perception |
| 14. The migration of all citizens falls under segme | ntation |
| a. behavioral | c, psychographic |
| b. demographic | d. geographic |
| 15. Which one of the followings is not the theory of motivation | on? |
| a. Trait Theory | c. Two Factor Theory |
| b. Herzberg Theory | d. None of the above |

Surkhet, Nepal Final Examination-2079 Bachelor of Hotel Management (BHM) Semester - III

Subject: Human Resource Management and Organizational Behavior Full Marks: 100Pass Marks: 50

Course Code: BHM431/331

Time: 3:00 Hours

You are required to answer in your own words as far as applicable. The figures in the margin indicate full marks.

SECTION B: SHORT ANSWER QUESTIONS (8 × 5 = 40 MARKS)

Answer any EIGHT questions:

- 1. Discuss the details of the Guest model of Human Resource Management. What are its pros and cons?
- 2. Discuss the different types of contemporary issues of human resource management.
- 3. What are the different functions of human resource management. Explain.
- 4. What are the differences between recruitment and selection. Mention in detail.
- 5. Explain, in detail, the Alderfer's ERG theory of motivation in context to tourism industry.
- 6. What is Organizational Behavior? What are its contributing disciplines?
- 7. What are the commonalities and differences among Teams and Groups?
- 8. What is occupational safety and how do we create a safe and healthy work environment for an
- 9. What are the features of Safe working environment? Illustrate with examples.
- 10. What is workforce diversity. Why is it a contemporary issue in human resource management.

SECTION C: LONG ANSWER QUESTIONS (3 ×10 = 30 MARKS)

- 11. Why is Human Resource Management an important component of any organization? What roles does a Answer any THREE questions:
 - 12. Explain, in detail, the compensation details as per the labor law of Nepal. What are the basic salary compositions and what can be done if any individual salary is below the prescribed level.
 - 13. Discuss in detail the stages of group formation. What are the advantages and disadvantages of working
 - 14. Discuss in detail the different levels of organizational behavior. How does it play a vital role in shaping up an individual.
 - 15. Discuss, in detail, the following:
 - a. Job Design
 - b. Job Description

- c. Job Re-engineering
- d. Job Design

SECTION D: CASE STUDY (15 MARKS)

16. Read the case given below and answer the following questions:

Harsha and Franklin both of them are postgraduates in management under different streams from the same University. Both of them are close to each other from the college days itself and the same friendship is continuing in the organization too as they are placed in the same company, Hy-tech technology solutions. Harsha placed in the HR department as employee counsellor and Franklin in the finance department as a key finance executive. As per the grade is concerned both are at the same level but when responsibility is concerned Franklin is holding more responsibility being in core finance.

By nature, Harsha is friendly in nature and ready to help the needy. Franklin is silent in nature ready to help if approached personally and always a bit egoistic in nature. They have successfully completed 4

years in the organization. And management is very much satisfied with both of them as they are equally talented and constant performers.

Harsha felt that now a day's Franklin is not like as he uses to be in the past. She noticed some behavioral changes with him. During general conversations, she feels that Franklin is taunting her that she is famous among the employees in the organization, on the other hand, he is not even recognized by fellow employees.

One morning Mr. Mehta General Manager Hy-tech technology solutions shocked while going through the mail received from Franklin about his resignation. Mr. Mehta called Harsha immediately and discussed the same as she is close to Franklin. By hearing the news Harsha got stunned and said that she does not know this before she also revealed here current experience with him. Mr. Mehta who does not want to lose both of them promised her that he will handle this and he won't allow Franklin to resign.

In the afternoon Mr. Metha took Franklin to Canteen to make him comfortable after some general discussion he starts on the issue. Franklin, after some hesitation, opened his thinking in front of Mr. Mehta. The problem of Franklin is

- When he comes alone to canteen the people from others don't even recognize him but if he accompanied by Harsha he gets well treated by others.
- One day Both of them entered the company together the security in the gate wished them but the next day when he came alone the same security did not do so.
- Even in meetings held in the office, the points raised by Harsha will get more value so many times he keeps silent in the meeting.

It happens to Franklin that he has to face such degradation in each day of work which totally disturbs him. Franklin also questioned that "Harsha and myself have the same qualification, from the same institute, passed out in the same year both with first class. We have the same number of experiences in this organization. Moreover, the responsibilities with me are more valuable than those of Harsha. After all these things if I am been ignored or unrecognized by the fellow employees my ego does not allow me

to continue here".

a. If you were Mr. Meheta, how would you handle the three issues identified by Frankiln?

b. If you were Harsha, what would you have done to resolve the matter?

c. What are the main issues with Franklin in terms of human resource management?

[5]

THE END

Mid-West University

Examinations Management Office

Surkhet, Nepal

Final Examination-2079

Bachelor of Hotel Management (BHM) Semester - III

| | Roll.No | |
|--|---|--|
| Subject: Food Production and Patisserie III | Course Code: BHM432/33 | |
| Full Marks: 100 Pass Marks: 50 | Time: 3: 00 Hours | |
| SECTION A: MULTIPLE CHOICE QUESTIONS (1 × 1 | 5 = 15 MARKS) (CTIME: 15 MINUTES) | |
| Tick the best answers. | J. 13 WANNS) (CHIME: 13 WING (ES) | |
| 1. Appetizers were originally introduced by the Athena ar | nsasa buffet in the earlycentury | |
| B.C. | | |
| a. FOURTH | c. THIRD | |
| b. FIFTH | d. SIXTH | |
| 2. Caviar is the egg obtained fromfish | | |
| a. sturgeon | c. anchovies | |
| b. mackerel | d. tuna | |
| 3are types of caviars. | | |
| a. Beluga | c. Sevruga | |
| b. Ossetra | d. All of them | |
| 4. Cold kitchen is also known as | · · | |
| a. larder | c. pantryd. all of above | |
| b. garde manger | d. an or above | |
| 5. Canape refers to | c. appetizers | |
| a. bite size small open sandwich | d. bread | |
| b. sandwich | u. blead | |
| 6. Red caviar is obtained from | c. haddow | |
| a. salmon fish | d. herrings | |
| b. sturgeon fish | G. A. C. C. C. C. C. C. C. C | |
| 7. Pinwheel sandwich is a type ofsandwich. | c. ribbon | |
| o toasted | d rolled | |
| b. grilledcan be defined as dish in which ingredients are | e set with the meat stock or consommé and | |
| 8 can be defined as dish in which ingredients and | | |
| gelation. | c. Galantine | |
| a Pate | d. aspic | |
| b. Terrine9. Type of lettuce, chicory or loose leaf lettuceetc basi | cally can be used as the | |
| 9 Type of lettuce, chicory or loose leaf lettucecte bush | c. garnish | |
| a. base | d. dressing | |
| | | |
| b. body 10. Niçoise salad is the type of salad. | c. Green Salad | |
| a. Salad singular | d. Vegetable | |
| b. Compound salad | | |
| D. Composition | | |

| 11 is part of the garde manger devo | ted to preparing cold meat products |
|--|--|
| a. Cold meats b. Preserved foods 12. Major function of dressings is a. add flavor and provides food value b. help digestion 13are the famous fast food establishment. | c. Charcuterie d. None of the above c. improve palatability and appearance d. All of the above |
| a. Arby's b. Carl's jr. 14 can be defined as dish in which ingrand gelatin | c. checkers d. all of above redients are set with the meat stock or consomme |
| a. Pateb. Aspic | c. Terrine d. Galantine |
| 15. Standard serving size for soup isml.a. 100-150b. 150-200c. 200-250 | |

d. 250-300

Surkhet, Nepal Final Examination-2079 Bachelor of Hotel Management (BHM) Semester - III

Subject: Food Production and Patisserie III Course Code: BHM 432/332 Full Marks: 100 Pass Marks: 50 Time: 3: 00 Hours You are required to answer in your own words as far as applicable. The figures in the margin indicate full marks. SECTION B: SHORT ANSWER QUESTIONS (8 × 5 = 40 MARKS) Answer any EIGHT questions: 1. Compile a four course chinese table d' hote menu along with the recipe of any one chinese soup.[5] 2. What are the possible faults in cake making? Explain. [5] [5] 3. Explain the various types of paste used in bakery. [5] 4. Write down the advantages and disadvantages of convenience food. [5] 5. "Appetizers help to create the first impression to the guest" how? [5] 6. Make a recipe card of salad of your choice in a standard recipe format. [5] 7. Explain the cuts of chicken and its culinary uses. [5] 8. What are the characteristics of fast food. [5] 9. What is salad made by? Exemplify. [5] 10. write about the duties and responsibilities of ex-chef. SECTION C: LONG ANSWER QUESTIONS (3 × 10 = 30 MARKS) Answer any THREE questions: 11. What are the duties and responsibilities of garde manger? [10]12. Explain the types of game with examples. [10]13. "The bant food industry is a multibillion dollar industry" hood. [10] 14. What are the herbs, spices and cooking techniques used in Chinese cuisine.? [10] 15. Write about the recipes and methods of preparation of sweet paste. [10] SECTION D: CASE STUDY (15 MARKS) 16. Read a case given below and answer the following questions: Think you are an executive chef of ABC hotel. And you have to prepare a new menu for the breakfast. And for it you are thinking to include the sandwich and canapes. [5] a. Differentiate between canape and sandwich. [5] b. Give the guidelines for your staffs while preparing the sandwich.

THE END

[5]

Create your own new sandwich with recipe card that you will add to your menu.

Surkhet, Nepal

Final Examination-2079

Bachelor of Hotel Management (BHM) Semester - III

Roll.No.... Subject: Food and Beverage Service III Course Code BHM433/333 Full Marks: 100 Pass Marks: 50 Time: 3: 00 Hours

SECTION A: MULTIPLE CHOICE QUESTIONS (1 × 15 = 15 MARKS) / (TIME: 15 MINUTES) Tick the best answers. 1. Chaptalization is the addition of a. alcohol c. must b. grape d. sugar 2. Bourbon is a. tennessee whiskey c. irish whiskey b. scotch whisky d. american whiskey 3. Which one of the followings is the red grape variety? a. Chardonnay c. Merlot b. Riesling d. Chenin 4. Rum was first produced in the a. African country c. European country b. Balkan country d. Caribbean country 5. Which one region of France is popular for Cognac? c. Charente a. Avignon b. Bordeaux d. Champagne 6. Mescal is produced in the very similar way to c. vodka a. tequila d. brandy b. gin 7. What is the vaporizing temperature of alcohol? c. 80.5°C a. 76.5°C d. 82.5°C b. 78.5°C 8. In whiskey making process, fermentation is done after.... c. distillation a. malting d. mashing b. blending 9. is obtain by the process of fermentation c. Tequila a. Mojito d. Cider b. Whiskey 10. Bloody Marry isbase cocktail. c. Vodka a. Whisky d. Rum b. Gin 11. Which one of the followings is not a fermented beverage? c. Chhyang a. Jand d. Tongba b. Raksi

| 12. According to the calculation of pro- | of, 30 % alcohol by volume is equal toin Ameri | can proof cool- |
|--|--|-----------------|
| | c. 40° | can proof scale |
| b. 30° | d. 60° | |
| 13. Which one of the following parts o | f grape gives colour to red wine? | |
| a. Skin | c. Stalk | |
| b. Pulp | d. Seed | |
| 14. Brandy is served in Glass | | |
| a. Collins | c. Snifter | |
| b. Highball | d. Pilsner | |
| 15. Dark Rum is aged for in bour | rbon cask | |
| a. 6 years | c. 8 years | |
| b. 4 years | d. 2 years | |
| | | |

Surkhet, Nepal Final Examination-2079 Bachelor of Hotel Management (BHM)

Semester - III

Subject: Food and Beverage Service III

Course Code: BHM 433/333

Full Marks: 100 Pass Marks: 50

%c.

Time: 3: 00 Hours

 \overline{Y}_{OU} are required to answer in your own words as far as applicable. The figures in the margin indicate full marks.

SECTION B: SHORT ANSWER QUESTIONS (8 × 5 = 40 MARKS)

Answer any EIGHT questions:

- 1. What type of alcohol is tequila? Explain its production proudare.
- 2. Explain the varieties of grape used in champagne production.
- 3. What is the difference between bourbon and whiskey?
- 4. Define RMM and its types.
- 5. "Vodka is a neutral Spirit". Justify
- 6. Define bar and its types.
- 7. What are the difference between Cognac and Armagnac?
- 8. Explain the manufacturing process of gin.
- 9. Define the cocktails and its component.
- 10. List out the traditional alcoholic & non alcoholic beverage that are consumed in Nepal and explain them in brief.

SECTION C: LONG ANSWER QUESTIONS (3 × 10 = 30 MARKS)

Answer any THREE questions:

[10]11. Explain the complete process of wine production. 12. Explain the various methods of making mixed cocktail with examples. [10] 13. Define brandy and explain the procedure of manufacturing brandy. [10] [10]14. Enlist each five brand names of distilled alcoholic beverage.

15. Explain the manufacturing process of champagne.

[10]

SECTION D: CASE STUDY (15 MARKS)

16. Read a case given below and answer the following questions:

Responsible alcohol service programme haves evolved in many countries alongside a general increase in the availability of alcohol and a greater focus on the prevention of alcohol-related road crashes. They also recognize the reality that a great deal of high-risk drinking and preventable harm occurs in and around licensed premises or as drinkers make their way home. Early US efficacy studies of programme which trained managers and bar staff to limit customers levels of intoxication and prevent drink driving showed promise. Studies of effectiveness of these programme in the wider community, and in the absence of the enforcement of liquor laws, found little benefit. The data will be interpreted as suggesting that, in reality, skills deficits in the serving of alcohol are not a significant problem compared with the motivational issue for a commercial operation of abiding by laws that are rarely enforced and which are perceived as risking the goodwill of their best customers. Australian, UK and US experiences with liquor law enforcement by police will be discussed along with outcomes from the Australian invention of Alcohol Accords, informal agreements between police, licensees and local councils to trade responsibly. It will be concluded that the major task involved in lifting standards of service and

preventing harm is to institutionalize legal and regulatory procedures which impact most on licensed premises. A number of strategies are suggested also for creating a political and social climate which supports the responsible service of alcohol and thereby supports the enactment and enforcement of appropriate liquor laws

Questions

a. Explain the importance of responsible alcohol service. [5]

b. How can liquor laws minimize the consequencesof alcohol and its negative effect on society?[5]

c. What are the beverage rules in Nepal?

THE END

[5]

Surkhet, Nepal

Final Examination-2079

Bachelor of Hotel Management (BHM)

Semester - III

| ubjec | ct: Front Office Operation I | Roll.No |
|--|--|---|
| un M | Sarks: 100 Pass Marks: 50 | Course Code: BHM 434/334 |
| | | Time: 2, 00 H |
| ick th | CTION A: MULTIPLE CHOICE QUESTIONS (1×15= | 15 MARKS) / (TIME 15 MINUTES) |
| 1. | Due to | (True, 15 MINUTES) |
| | Due to | fice department is known as nerve center of |
| | a. circulating information to all other denoted | |
| | b. circulating rooms to another department | |
| | c. Circulating cash | |
| | d. generating maximum revenue | |
| 2. | Where are motels located? | |
| | a. At sea port | c. Along highways |
| _ | b. At airport | d. At exotic locations |
| 3. | and blocking of foom is done by: | The short locations |
| | a. reception | c. telephone operator |
| | b. reservation | d. business centre |
| 4. | The guest fails to come despite of confirmed reservation i | s referred as: |
| | a. walk in guest | c. no show |
| _ | b. skipper | d. in house guest |
| 5. | The Department is mainly responsible for | |
| | a. Front Office | c. Travel Agency |
| _ | b. F&B Service | d. Sales and Marketing |
| 6. | When the guest is not in the room but if someone is visiting | ng him/her or expecting any call, guest can |
| | leave information in | |
| | a. lost and found | c. location form |
| 7 | b. guest paging | d. guest mail delivery |
| 7. | Ensuring the safety of life and assets is the responsibility | or: |
| | a. accounts department | |
| | b. security department | |
| | c. it department | |
| 33 | d. engineering and maintenance department | |
| 8. | One of the followings falls under functional department | c. front office |
| | a. food production | |
| | b. purchase and store | d. housekeeping |
| 9. | The check out process carried out during | c. arrival |
| | a. pre – arrival | |
| i de la companya de l | b. departure | d. stay |

| 10. | Front office manager is responsible for: | |
|-----|--|---------------------|
| | a. preparing budget | c. coordination |
| | b. training | d. all of the above |
| 11. | Who is the father of Travel and Tourism? | d. all of the above |
| | a. Sr. Moritz | n Distance |
| | b. Cox and Kings | c. Riviera |
| 12. | Ensuring safety of life and assets is responsibility of: | d. Thomas Cook |
| | a. Accounts Department | |
| | b. Security Department | |
| | c. IT department | |
| | | |
| 13 | d. Engineering and Maintenance Department | |
| 13. | From where the word "'Motels" was invented? | |
| | a. United Kingdom | c. France |
| | b. America | d. Australia |
| 14. | It is the longest phase in guest cycle: | |
| | a. Pre – arrival | c. Arrival |
| | b. Departure | d. Stay |
| 15. | The room with following status can be sold to guest: | |
| | a. 000 | c. VD |
| | b. VC | d. Departure |
| | | - |

Surkhet, Nepal

Final Examination-2079

Bachelor of Hotel Management (BHM) Semester - III

Subject: Front Office Operation I Course Code: BHM 434/334 Full Marks: 100 Pass Marks: 50 Time: 3: 00 Hours

You are required to answer in your own words as far as applicable. The figures in the margin indicate full marks.

SECTION B: SHORT ANSWER QUESTIONS (8 × 5 = 40 MARKS)

Answer any EIGHT questions:

- 1. Define front office. Explain the functions of Front Office Department.
- Why is the front office department is the first impression of the hotel? Exemplify. 2.
- Explain night auditing process and their duties. 3.
- 4. What is the interrelation between front office and housekeeping department?
- 5. Explain the process of reservation.
- Define: 1) Scanty Baggage 2) City Hotel 6.
- Discuss briefly on message slip and location form. 7.
- 8. What are the types of plan practiced in accommodation industry?
- List the duties and responsibilities of a reservation department.
- 10. What are the difference betweens check in and check out?

SECTION C: LONG ANSWER QUESTIONS (3 \times 10 = 30 MARKS)

Answer any THREE questions:

11. Classify hotel on the basis of location.

[10]

[10]

12. List down the duties and responsibilities of a front office manager.

[10]

13. List the sections within Front Office Department. 14. What are the types of reservation? Explain.

[10]

- 15. Write Short Notes on (any 2):
 - a. Guest Folio

b. Registration

c. Left Luggage

SECTION D: CASE STUDY (15 MARKS)

16. Read a case given below and answer the following questions:

A reservation agent, received a call from a guest for booking a single room for four days from 15 July. While checking the reservation status, she finds that on 18 July the lower category of rooms is sold out be an executive room is available (Room rent of the same is NPR2500 more than the requested room type). While going through the guest history, she also finds that the guest is a frequent visitor to the hotel and a

considerable amount of business is gained from him.

[5]

[5]

- What alternatives can be suggested to the guest?
 - Should reservation agent upgrade the guest for the night of 18 July on a complimentary basis? Why
- Why not? c. What are the sources of reservation?

THE END

Mid-West University Examinations Management Office Surkhet, Nepal Final Examination-2079

Bachelor of Hotel Management (BHM) Semester - III

| | Roll.No |
|---|--|
| Subject: Food Science and Nutrition | Course Code: BHM 435/335 |
| Full Marks: 100 Pass Marks: 50 | Time: 3: 00 Hours |
| | 是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就 |
| SECTION A: MULTIPLE CHOICE QUESTIONS (1 $	imes$ | (15 = 15 MARKS) / (TIME: 15 MINUTES) |
| Tick the best answers. | |
| 1. Organism that can survive without oxygen is | |
| a. anaerobes | c. halophiles |
| b. mesophiles | d. microaerophiles |
| 2. Oleic acid is a | |
| a. PUFA | c. vitamin |
| b. amino acid | d. MUFA |
| 3. The Nepal food act law was enforced in the year | 1060 |
| a. 2034 | c. 1969 |
| b. 1966 | d. 2040 |
| 4. Viruses are a-cellular obligate parasite whose nucleic a | acid is enclosed within |
| a. Plasma | c. spore |
| b, Protein | d. Capsid |
| 5. The serving size of vegetable is | c. 60gm |
| a. 30gm | d. 25gm |
| b. 100gm | u. 25gm |
| 6. LTLT pasteurization is performed at | c. 63°C for 30 minutes |
| a. 75°C for 10 minutes | d. none of the above. |
| b. 62°C for 30 minutes | d. Hone of the way to |
| 7. Which one of the followings is true for bacteria? | c. Need oxygen |
| a. Grow and multiply in warm condition | d. Freezing can kill it |
| 1 All carros food noisoning | u. Treezing |
| 8. RDA for calorie during pregnancy increases by | c. 300Kcal |
| a. 430Kcal | d. 500Kcal |
| L 200Kcal | |
| 9. CODEX alimentarius is funded by | c. WTO and FAO |
| a. WHO | d. None of the above |
| · FD A | |
| b. FDA 10. Goiter is caused due to the deficiency of | c. Protein |
| a. Vitamin D | d. Iron |
| To die a | d. non |
| b. Iodine 11. Flagella is a structure that provides | c. aids in reproduction |
| a. resistance to heat | d. transfer of genetic material |
| | Q. Hansier of Benefit |
| h. motility | |

12. Low acid foods are those foods which have pH a. <3.7 b. 3.7 to 4.6 c. 4.6 to 5 d. None of the above 13. Sanitizing agents are a. chlorine b. all of the above c. hot water 14. Positive oxidation reduction potential value d. none of the above a. supports pathogen c. is toxic for psychrophilic b. supports growth of aerobes d. helps in preservation 15. The carbohydrate obtained from leafy vegetables is called a. lactose c. starch b. cellulose

d. glycogen

Surkhet, Nepal Final Examination-2079 Bachelor of Hotel Management (BHM) Semester - III

Subject: Food Science and Nutrition Full Marks: 100 Pass Marks: 50

Course Code: BHM 435/335

 $\frac{1}{2}$ You are required to answer in your own words as far as applicable. The figures in the margin indicate full marks.

SECTION B: SHORT ANSWER QUESTIONS ($8 \times 5 = 40$ MARKS)

Answer any EIGHT questions:

1. Discuss, briefly, animal origin food groups.

2. Compare the difference between complete and incomplete protein.

3. Write short notes on the role of DFTQC.

- 4. Describe the various methods of dish washing.
- 5. Differentiate between saturated and unsaturated fatty acid.

6. Explain the seven principles of HACCP.

7. Explain the industrial significance of micro-organism with an example.

8. Describe the sociological function of food.

9. Give a brief account on the various methods of garbage disposal.

10. Write short notes on polysaccharide.

SECTION C: LONG ANSWER QUESTIONS $(3 \times 10 = 30 \text{ MARKS})$

Answer any THREE questions:

- 11. List down the objective of food preservation. Explain the methods of food preservation by application of heat.
- 12. Define extrinsic factor. Explain how these factors affect the growth of microorganisms and shelf life of food.
- 13. Define anemia. Describe its causes, sign and symptoms and preventive measures.
- 14. Differentiate between cleaning and sanitizing. Write short noes on the various types of cleaning agents.

15. Classify vitamin. List down the various functions of fat soluble vitamin.

SECTION D: CASE STUDY (15 MARKS)

16. Read a case given below and answer the following questions: Ideally, food should be prepared and eaten fresh. But since they are transported over long distances and

even between continents. They may undergo prolong period of storage prior their cooking and consumption. During this period food is potentially liable to microbial spoilage or even food poisoning. Food is derived directly or indirectly from living organism and undergoes natural decay. Food spoilage results from autolytic enzyme of due to microbial activity. Handling and processing of food also increases microbial load in food, increasing the potential of food spoilage of even poisoning. Aseptic handling of food, good Hygienic practices and GMP are the key components in minimizing potential food safety hazards regulated by force of legislation.

Ouestions:

- a. State your understanding on the various factorscausing food spoilage. [5]
- b. What are the food safety hazards? How can one minimize those hazards? [5]
- c. What are the 5 Ps of GMP that help maintain product safety? [5]