3 – YEAR B.Sc. DEGREE IN HOSPITALITY & HOTEL ADMINISTRATION

CURRICULUM

JOINTLY OFFERED BY:
NATIONAL COUNCIL FOR HOTEL MANAGEMENT
AND CATERING TECHNOLOGY
NOIDA
(NCHM&CT)

AND

INDIRA GANDHI NATIONAL OPEN UNIVERSITY (IGNOU)

SYLLABUS FOR 1ST SEMESTER CIRCULATED – 25th JUNE 2010

SEMESTER - I (17 WEEKS)

National Council Component

MINIMUM CONTACT HOURS FOR EACH SUBJECT

No.	Subject	Subject	Contact Hours per Semester	
	code		Th.	Pr.
1	BHM111	Foundation Course in Food Production - I	30	120
2	BHM112	Foundation Course in Food & Beverage Service - I	30	60
3	BHM113	Foundation Course in Front Office - I	30	30
4	BHM114	Foundation Course in Accommodation Operations - I	30	30
5	BHM105	Application of Computers	15	60
6	BHM106	Hotel Engineering	60	-
7	BHM116	Nutrition	30	-
TOTAL:		225	300	
GRAND TOTAL			52	25

WEEKLY TEACHING SCHEME (17 WEEKS)

No.	Subject	Subject	Hours per week	
	code		Th.	Pr.
1	BHM111	Foundation Course in Food Production - I	02	08
2	BHM112	Foundation Course in Food & Beverage Service - I	02	04
3	BHM113	Foundation Course in Front Office - I	02	02
4	BHM114	Foundation Course in Accommodation Operations - I	02	02
5	BHM105	Application of Computers	01	04
6	BHM106	Hotel Engineering	04	-
7	BHM116	Nutrition	02	-
TOTAL:		15	20	
GRAND TOTAL		3:	5	

EXAMINATION SCHEME

No.	Subject	Subject	Term Marks*	
	code		Th.	Pr.
1	BHM111	Foundation Course in Food Production - I	100	100
2	BHM112	Foundation Course in Food & Beverage Service - I	100	100
3	BHM113	Foundation Course in Front Office - I	100	100
4	BHM114	Foundation Course in Accommodation Operations - I	100	100
5	BHM105	Application of Computers	50	100
6	BHM106	Hotel Engineering	100	-
7	BHM116	Nutrition	100	-
TOTAL:		650	500	
GRAND TOTAL		1150		

^{*} Term marks will comprise 30% Incourse & 70% Term end exam marks.



BHM111 - FOUNDATION COURSE IN FOOD PRODUCTION – I (THEORY) HOURS ALLOTED: 30 MAXIMUM MARKS: 100

S.No.	HOURS ALLOTED: 30 MAXIMUM MARKS: Topic	Hours	Weight age
01	INTRODUCTION TO COOKERY	02	5%
	A. Levels of skills and experiences		
	B. Attitudes and behaviour in the kitchen		
	C. Personal hygiene		
	D. Uniforms & protective clothing		
	E. Safety procedure in handling equipment		
02	CULINARY HISTORY	01	Intro
	A. Origin of modern cookery		only
03	HIERARCHY AREA OF DEPARTMENT AND KITCHEN	03	10%
	A. Classical Brigade		
	B. Modern staffing in various category hotels		
	C. Roles of executive chef		
	D. Duties and responsibilities of various chefs		
	E. Co-operation with other departments		
04	CULINARY TERMS	02	5%
	A. List of culinary (common and basic) terms		
	B. Explanation with examples		
05	AIMS & OBJECTS OF COOKING FOOD	02	10%
	A. Aims and objectives of cooking food		
	B. Various textures		
	C. Various consistencies		
	D. Techniques used in pre-preparation		
00	E. Techniques used in preparation		
06	BASIC PRINCIPLES OF FOOD PRODUCTION - I		
	i) VEGETABLE AND FRUIT COOKERY	03	15%
	A. Introduction – classification of vegetables		
	B. Pigments and colour changes		
	C. Effects of heat on vegetables		
	D. Cuts of vegetables		
	E. Classification of fruits		
	F. Uses of fruit in cookery		
	G. Salads and salad dressings		
	ii) STOCKS	03	5%
	A. Definition of stock		
	B. Types of stock		
	C. Preparation of stock		
	D. Recipes		
	E. Storage of stocks		
	F. Uses of stocks		
	G. Care and precautions		

	:::\ CALICEC	00	400/
	iii) SAUCES	02	10%
	A. Classification of sauces		
	B. Recipes for mother sauces		
07	C. Storage & precautions METHODS OF COOKING FOOD	0.4	450/
07	METHODS OF COOKING FOOD	04	15%
	A. Roasting		
	B. Grilling		
	C. Frying		
	D. Baking		
	E. Broiling		
	F. Poaching		
	G. Boiling		
	Principles of each of the above		
	Care and precautions to be taken		
	Selection of food for each type of cooking		
08	SOUPS	2	10%
00	A. Classification with examples		10 /0
	B. Basic recipes of Consommé with 10 Garnishes		
09	EGG COOKERY	2	5%
03	A. Introduction to egg cookery		370
	B. Structure of an egg		
	C. Selection of egg		
	D. Uses of egg in cookery		
10	COMMODITIES:	4	10%
		'	1070
	i) Shortenings (Fats & Oils)		
	A. Role of Shortenings		
	B. Varieties of Shortenings		
	C. Advantages and Disadvantages of using various Shortenings		
	D. Fats & Oil – Types, varieties		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	ii) Raising Agents		
	A. Classification of Raising Agents		
	B. Role of Raising Agents		
	C. Actions and Reactions		
	iii) Thickening Agents		
	A. Classification of thickening agents		
	B. Role of Thickening agents		
	iv) Sugar		
	A. Importance of Sugar		
	B. Types of Sugar		
	C. Cooking of Sugar – various		
TOTA		30	100%



FOUNDATION COURSE IN FOOD PRODUCTION – I (PRACTICALS) PART 'A' - COOKERY

HOURS ALLOTED: 60 MAXIMUM MARKS: 50

S.No	Торіс	Method	Hours
1	i) Equipments - Identification, Description, Uses & handling	Demonstrations &	
	ii) Hygiene - Kitchen etiquettes, Practices & knife handling		04
	iii) Safety and security in kitchen	simple applications	
2	i) Vegetables - classification	Demonstrations &	
	ii) Cuts - julienne, jardinière, macedoines, brunoise, payssane,		04
	mignonnete, dices, cubes, shred, mirepoix	simple applications	04
	iii) Preparation of salad dressings	by students	
3	Identification and Selection of Ingredients - Qualitative and	Market curvey/tour	04
	quantitative measures.	Market survey/tour	04
4	i) Basic Cooking methods and pre-preparations		
	ii) Blanching of Tomatoes and Capsicum		
	iii) Preparation of concasse	Demonstrations &	
	iv) Boiling (potatoes, Beans, Cauliflower, etc)	simple applications	04
	v) Frying - (deep frying, shallow frying, sautéing)	by students	04
	Aubergines, Potatoes, etc.	by students	
	vi) Braising - Onions, Leeks, Cabbage		
	vii) Starch cooking (Rice, Pasta, Potatoes)		
5	i) Stocks - Types of stocks (White and Brown stock)	Demonstrations &	
	ii) Fish stock	simple applications	04
	iii) Emergency stock	by students	
	iv) Fungi stock	by students	
6	Sauces - Basic mother sauces		
	Béchamel		
	Espagnole	Demonstrations &	
	Veloute		04
	Hollandaise	simple applications	
	Mayonnaise		
	Tomato		
7	Egg cookery - Preparation of variety of egg dishes		
	Boiled (Soft & Hard)		
	 Fried (Sunny side up, Single fried, Bull's Eye, Double 	D (); 0	
	fried)	Demonstrations &	0.4
	Poaches	simple applications	04
	Scrambled	by students	
	Omelette (Plain, Stuffed, Spanish)		
	En cocotte (eggs Benedict)		
8	Demonstration & Preparation of simple menu	Demonstrations &	
	,	simple applications	04
		by students	
9	Simple Salads & Soups:	ĺ	
	Cole slaw,	Demonstration by	
	Potato salad,	instructor and	00
	Beet root salad,	applications by	28
	Green salad,	students	
	Fruit salad,		
	- i fuit outuu,	1	

Consommé Simple Egg preparations: Scotch egg, Assorted omelletes, **Oeuf Florentine Oeuf Benedict** Oeuf Farci Oeuf Portugese Oeuf Deur Mayonnaise Simple potato preparations Baked potatoes Mashed potatoes French fries Roasted potatoes **Boiled potatoes** Lyonnaise potatoes Allumettes Vegetable preparations Boiled vegetables Glazed vegetables Fried vegetables Stewed vegetables. **TOTAL** 60



PART 'B' - BAKERY & PATISSERIE HOURS ALLOTED: 60 MAXIMUM MARKS: 50

S.No	Topic MAXIMUM MARKS: 50 Topic Method			
3.NO	Topic		Hours	
1	Equipments	Demonstration		
	• Identification	by instructor and	04	
	• Uses and handling	applications by students		
	Ingredients - Qualitative and quantitative measures	students		
2	BREAD MAKING			
	- Demonstration & Drangration of Cimple and apriched	Damanatustian ha		
	 Demonstration & Preparation of Simple and enriched bread recipes 	Demonstration by		
	•	instructor and	10	
	Bread Palls (Various shapes)	applications by students		
	Bread Rolls (Various shapes) Franch Broad Franch Broad	Students		
	French Bread Brights			
3	Brioche CIMPLE CAKES			
3	SIMPLE CAKES			
	Demonstration & Dronaration of Cimple and enrighed			
	 Demonstration & Preparation of Simple and enriched Cakes, recipes 			
	 Sponge, Genoise, Fatless, Swiss roll 		10	
	Sponge, Genoise, Patiess, Swiss roll Fruit Cake		10	
	Rich Cakes			
	Dundee Madaire			
4	Madeira SIMPLE COOKIES			
4	SIMPLE COOKIES			
	Demonstration and Preparation of simple cookies like			
	Nan Khatai			
	Golden Goodies	Demonstration by		
		Demonstration by		
	Melting momentsSwiss tart	instructor and	16	
	Tri colour biscuits	applications by students		
		วเนนธาเเจ		
	Chocolate chipCookies			
	Chocolate Cream FingersBachelor Buttons.			
5	HOT / COLD DESSERTS			
5	HOT/ COLD DESSERTS			
	Caramel Custard,			
	Bread and Butter Pudding			
	Queen of Pudding	Demonstration by		
	Soufflé – Lemon / Pineapple	instructor and	20	
	Mousse (Chocolate Coffee)	applications by	20	
	Bayaroise	students		
	Diplomat Pudding Apriort Budding			
	Apricot Pudding Albert Budding Cabinet Budding			
TOTAL	 Steamed Pudding - Albert Pudding, Cabinet Pudding. 		60	
TOTAL	•		60	

MARKING SCHEME FOR PRACTICAL EXAMINATION

MAXIMUM MARKS 100 PASS MARKS 50

DURATION 04.30 HRS

Indenting and Scullery 30 minutes before and after the practical

All menu items to be made from the prescribed syllabus only

Part –	A (Cookery)	
1.	One simple salad OR soup	10
2.	One simple sauce	10
3.	One simple egg preparation	10
4.	One simple vegetable or potato preparation	05
5.	Journal	05
		40
Part –	B (Bakery)	
1.	Bread or bread rolls	15
2.	Simple cake or cookies	10
3.	One dessert hot or cold	10
4.	Journal	05
		40
Part -	C (General Assessment)	
1.	Uniform & Grooming	05
2.	Indenting and plan of work	05
3.	Scullery, equipment cleaning and Hygiene	05
4.	Viva	05
		20
PARAI	METERS OF ASSESMENT OF EACH DISH	
	Temperature	20%
,	Texture / Consistency	20%
C)	· /	
Ο)	Aroma / Flavour	20%
D)	Taste	20%
D)		

NOTE:

- 1. Journal is not allowed during indenting or practical. It must be handed over to the examiner before commencement of examination.
- 2. Invigilation will be done by both internal and external persons.
- 3. Extra ingredients may be made available in case of failure but of limited types and quantity (groceries and dairy products only). Only one extra attempt may be permitted.
- 4. Uniform and grooming must be checked by the examiners before commencement of examination.
- 5. Students are not allowed to take help from books, notes, journal or any other person.



BHM112 - FOUNDATION COURSE IN FOOD & BEVERAGE SERVICE – I (THEORY) HOURS ALLOTED: 30 MAXIMUM MARKS: 100

S.No.	Topic HOURS ALLOTED: 30 MAXIMUM MARKS: 100	Hours	Weight
0.110.	τοριο	Tiouis	age
01	THE HOTEL & CATERING INDUSTRY	06	20%
	A. Introduction to the Hotel Industry and Growth of the hotel		
	Industry in India		
	B. Role of Catering establishment in the travel/tourism industryC. Types of F&B operations		
	D. Classification of Commercial, Residential/Non-residential		
	E. Welfare Catering - Industrial/Institutional/Transport such as air,		
	road, rail, sea, etc.		
	F. Structure of the catering industry - a brief description of each		
02	DEPARTMENTAL ORGANISATION & STAFFING	04	15%
	A Comprised to a f FOD down attract of both		
	A. Organisation of F&B department of hotel		
	B. Principal staff of various types of F&B operations C. French terms related to F&B staff		
	D. Duties & responsibilities of F&B staff		
	E. Attributes of a waiter		
	F. Inter-departmental relationships		
	(Within F&B and other department)		
03	I FOOD SERVICE AREAS (F & B OUTLETS)	06	20%
	A O : II D I		
	A. Specialty Restaurants		
	B. Coffee Shop C. Cafeteria		
	D. Fast Food (Quick Service Restaurants)		
	E. Grill Room		
	F. Banquets		
	G. Bar		
	H. Vending Machines		
	I. Discotheque		
	II ANCILLIARY DEPARTMENTS	04	10%
	A. Pantry		
	B. Food pick-up area		
	C. Store		
	D. Linen room		
	E. Kitchen stewarding		
04	F & B SERVICE EQUIPMENT	04	15%
	Familiarization & Selection factors of:		
	- Cutlery		
	- Crockery		
	- Glassware		
	- Flatware		
	- Hollowware		

	- All other equipment used in F&B Service		
	French terms related to the above	01	
05	NON-ALCOHOLIC BEVERAGES		
		01	20%
	Classification (Nourishing, Stimulating and Refreshing beverages)		
	A. Tea	01	
	- Origin & Manufacture		
	- Types & Brands		
		01	
	B. Coffee		
	- Origin & Manufacture		
	- Types & Brands	01	
	M		
	C. Juices and Soft Drinks		
		01	
	D. Cocoa & Malted Beverages		
	- Origin & Manufacture		
TOTA		30	100%

FOUNDATION COURSE IN FOOD & BEVERAGE SERVICE – I (PRACTICAL) HOURS ALLOTED: 60 MAXIMUM MARKS: 100

	HOUNG ALLOTED: 00 MIANIMOM MARKS: 100	
S.No	Торіс	Hours
01	Food Service areas – Induction & Profile of the areas	04
02	Ancillary F&B Service areas – Induction & Profile of the areas	04
03	Familiarization of F&B Service equipment	08
04	Care & Maintenance of F&B Service equipment	04
05	Cleaning / polishing of EPNS items by:	04
	- Plate Powder method	
	- Polivit method	
	- Silver Dip method	
	- Burnishing Machine	
06	Basic Technical Skills	16
	Task-01: Holding Service Spoon & Fork	
	Task-02: Carrying a Tray / Salver	
	Task-03: Laying a Table Cloth	
	Task-04: Changing a Table Cloth during service	
	Task-05: Placing meal plates & Clearing soiled plates	
	Task-06: Stocking Sideboard	
	Task-07: Service of Water	
	Task-08: Using Service Plate & Crumbing Down	
	Task-09: Napkin Folds	
	Task-10: Changing dirty ashtray	
07	Task-11: Cleaning & polishing glassware	0.4
07	Tea – Preparation & Service	04
08	Coffee - Preparation & Service	04
09	Juices & Soft Drinks - Preparation & Service	80
	Mocktails	
	Juices, Soft drinks, Mineral water, Tonic water	
10	Cocoa & Malted Beverages – Preparation & Service	04
TOTAL	-	60
		1



MARKING SCHEME FOR PRACTICAL EXAMINATION

MAXIMUM MARKS 100 PASS MARKS 50 DURATION 03.00HRS

All Technical Skills to be tested as listed in the syllabus

			MARKS
1.	Uniform / Grooming	:	10
2.	Service Equipment Knowledge / Identification	:	20
3.	Care Cleaning & Polishing of service equipment	:	20
4.	Service skills / tasks	:	20
5.	Beverage service Tea / Coffee / Soft drinks	:	20
6.	Journal	:	10
			100

NOTE:

- 1. The examination should test skills and knowledge of the students by assigning sets of tasks as listed in the practical syllabus under each category.
- 2. During table service each guest should pose one question to the candidate on the item being served. The invigilators can brief guests prior to service.



BHM113 - FOUNDATION COURSE IN FRONT OFFICE OPERATIONS – I (THEORY) HOURS ALLOTED: 30 MAXIMUM MARKS: 100

S.No.	HOURS ALLOTED: 30 MAXIMUM MARKS: 100 Topic	Hours	Weight
04	INTRODUCTION TO TOURISM HOSPITALITY & HOTEL INDUSTRY	02	age
01	INTRODUCTION TO TOURISM, HOSPITALITY & HOTEL INDUSTRY	03	10%
	A. Tourism and its importance		
	B. Hospitality and its origin		
	C. Hotels, their evolution and growth		
	D. Brief introduction to hotel core areas with special reference to		
	Front Office		
02	CLASSIFICATION OF HOTELS	05	15%
	A. Size		
	B. Star		
	C. Location & clientele		
	D. Ownership basis		
	E. Independent hotels		
	F. Management contracted hotel		
	G. Chains		
	H. Franchise/Affiliated		
	Supplementary accommodation		
	J. Time shares and condominium		
03	TYPES OF ROOMS	02	5%
	A Cinalo		
	A. Single B. Double		
	C. Twin		
	D. Suits		
04	TIME SHARE & VACATION OWNERSHIP	03	10%
	A. What is time share? Referral chains & condominiums		
	B. How is it different from hotel business?		
	C. Classification of timeshares		
05	D. Types of accommodation and their size FRONT OFFICE ORGANIZATION	05	20%
UJ	TROUT OF FICE ORGANIZATION	05	20 /0
	A. Function areas		
	B. Front office hierarchy		
	C. Duties and responsibilities		
	D. Personality traits		
06	HOTEL ENTRANCE, LOBBY AND FRONT OFFICE	03	10%
	A. Layout		
	B. Front office equipment (non automated, semi automated and		
	automated)		
07	BELL DESK	04	20%
	A. Functions		
	B. Procedures and records		

80	FRENCH: To be taught by a professional French language teacher.	05	10%
	A. Understanding and uses of accents, orthographic signs & punctuation		
	B. Knowledge of cardinaux & ordinaux (Ordinal & cardinal)		
	C. Days, Dates, Time, Months and Seasons		
	TOTAL	30	100

FOUNDATION COURSE IN FRONT OFFICE OPERATIONS – I (PRACTICALS) HOURS ALLOTED: 30 MAXIMUM MARKS: 100

S.No.	Topic	Hours
1	Appraisal of front office equipment and furniture	2
2	Rack, Front desk counter & bell desk	2
3	Filling up of various proforma	4
4	Welcoming of guest	2
5	Telephone handling	4
6	Role play:	
	 Reservation 	4
	 Arrivals 	4
	Luggage handling	2
	Message and mail handling	4
	Paging	2
TOTAL		30

MARKING SCHEME FOR PRACTICAL EXAMINATION

MAXIMUM MARKS	100	PASS MARKS	50
DURATION	03.00 HRS		

			MARKS
1.	UNIFORM & GROOMING	:	10
2.	COURTESY & MANNERS	:	10
3.	SPEECH AND COMMUNICATION	:	10
4.	TECHNICAL KNOWLEDGE	:	20
5.	PRACTICAL SITUATION HANDLING	:	40
6.	JOURNAL	:	10
			100

NOTE:

- 1. Speech, Communication, Courtesy and Manners should be observed throughout.
- 2. 200 technical questions to be prepared in advance, covering the entire syllabus.
- 3. Practical situations at least 25 situations be made representing all aspects of the syllabus.



BHM114 - FOUNDATION COURSE IN ACCOMMODATION OPERATIONS – I (THEORY) HOURS ALLOTED: 30 MAXIMUM MARKS: 100

	HOURS ALLOTED: 30 MAXIMUM MARKS: 100		1
S.No.	Topic	Hours	Weight age
01	THE ROLE OF HOUSEKEEPING IN HOSPITALITY OPERATION	02	5%
	Role of Housekeeping in Guest Satisfaction and Repeat Business		
02	ORGANISATION CHART OF THE HOUSEKEEPING DEPARTMENT	08	25%
	A. Hierarchy in small, medium, large and chain hotels		
	B. Identifying Housekeeping Responsibilities		
	C. Personality Traits of housekeeping Management Personnel.		
	D. Duties and Responsibilities of Housekeeping staff		
	E. Layout of the Housekeeping Department		
03	CLEANING ORGANISATION	04	15%
	A. Principles of cleaning, hygiene and safety factors in cleaning		
	B. Methods of organising cleaning		
	C. Frequency of cleaning daily, periodic, special		
	D. Design features that simplify cleaning		
0.4	E. Use and care of Equipment	0.5	000/
04	CLEANING AGENTS	05	20%
	A. General Criteria for selection		
	B. Classification		
	C. Polishes		
	D. Floor seats		
	E. Use, care and Storage		
	F. Distribution and Controls		
٥٢	G. Use of Eco-friendly products in Housekeeping	0.5	4.50/
05	COMPOSTION, CARE AND CLEANING OF DIFFERENT SURFACES A. Metals	05	15%
	B. Glass		
	C. Leather, Leatherites, Rexines D. Plastic		
	E. Ceramics		
	F. Wood		
	G. Wall finishes		
	H. Floor finishes		
06	INTER DEPARTMENTAL RELATIONSHIP	02	10%
	A. With Front Office	02	1070
	B. With Maintenance		
	C. With Security		
	D. With Stores		
	E. With Accounts		
	F. With Personnel		
	G. Use of Computers in House Keeping department		
07	USE OF COMPUTERS IN HOUSE KEEPING DEPARTMENT	04	10
TOTAL		30	100%

FOUNDATION COURSE IN ACCOMMODATION OPERATIONS – I (PRACTICAL) HOURS ALLOTED: 30 MAXIMUM MARKS: 100

S.No.	HOURS ALLOTED: 30 MAXIMUM MARKS: 100	Hours
3.No.	Topic Sample Layout of Guest Rooms	02
01	Single room	02
	Double room	
	Twin room	
	Suite	
02	Guest Room Supplies and Position	04
02	Standard room	04
	• Suite	
03	VIP room special amenities Classics Equipment (manual and machanics)	0.4
03	Cleaning Equipment-(manual and mechanical)	04
	• Familiarization	
	Different parts	
	• Function	
	Care and maintenance	
04	Cleaning Agent	02
	Familiarization according to classification	
	• Function	
05	Public Area Cleaning (Cleaning Different Surface)	14
	A. WOOD	
	• polished	
	• painted	
	Laminated	
	B. SILVER/ EPNS	
	Plate powder methodPolivit method	
	Proprietary solution (Silvo)	
	C. BRASS	
	Traditional/ domestic 1 Method	
	Proprietary solution 1 (brasso)	
	1 Tophotary solution 1 (blasso)	
	D. GLASS	
	Glass cleanser	
	Economical method(newspaper)	
	E. FLOOR - Cleaning and polishing of different types	
	• Wooden	
	Marble	
	Terrazzo/ mosaic etc.	
	F. WALL - care and maintenance of different types and parts	
	Skirting	
	• Dado	
	Different types of paints(distemper Emulsion, oil paint etc)	
L		

06	Maid's trolley	02
	Contents	
	Trolley setup	
07	Familiarizing with different types of Rooms, facilities and surfaces	02
	Twin/ double	
	Suite	
	Conference etc	
TOTAL		30

MARKING SCHEME FOR PRACTICAL EXAMINATION

MAXIMUM MARKS	100	PASS MARKS	50
DURATION	03.00HRS		

		MARKS	
1. 2. 3. 4. 5. 6. 7.	UNIFORM & GROOMING GUEST ROOM SUPPLIES & POSITION SURFACE CLEANING (TWO DIFFERENT SURFACES) MAIDS TROLLY CARE & CLEANING OF EQUIPMENT VIVA JOURNAL	: : : : :	10 10 30 10 10 20
			100

NOTE:

- 1. Time limit of the examination should be strictly adhered to.
- 2. Tasks should be limited to the syllabus

BHM105 - APPLICATION OF COMPUTERS – THEORY HOURS ALLOTED: 15 MAXIMUM MARKS: 50

S.No.	HOURS ALLOTED: 15 MAXIMUM MARKS: 50 Topic	Hours	Weight
01	COMPUTER FUNDAMENTALS - THEORY	05	age
	INFORMATION CONCEPTS AND PROCESSING		05%
	A. Definitions B. Need, Quality and Value of Information C. Data Processing Concepts		
	ELEMENTS OF A COMPUTER SYSTEM		10%
	A. Definitions B. Characteristics of Computers C. Classification of Computers D. Limitations		
	HARDWARE FEATURES AND USES		10%
	 A. Components of a Computer B. Generations of Computers C. Primary and Secondary Storage Concepts D. Data Entry Devices E. Data Output Devices 		
	SOFTWARE CONCEPTS		10%
	A. System Software B. Application Software C. Language Classification D. D. Compilers and Interpreters		
02	OPERATING SYSTEMS/ENVIRONMENTS - THEORY	05	
	BASICS OF MS-DOS A. Internal commands B. External commands		20%
	INTRODUCTION TO WINDOWS A. GUI/Features B. What are Windows and Windows 95 and above? C. Parts of a Typical Window and their Functions		15%
03	NETWORKS – THEORY	05	35%
	 A. Network Topology Bus Star Ring B. Network Applications 		

C. Types of Network		
• LAN		
• MAN		
• WAN		
D. Network Configuration Hardware		
Server		
• Nodes		
E. Channel		
Fibre optic		
Twisted		
Co-axial		
F. Hubs		
G. Network Interface Card		
Arcnet		
Ethernet		
H. Network Software		
Novel		
Windows NT		
TOTAL	15	100%

APPLICATION OF COMPUTERS – PRACTICAL HOURS ALLOTED: 60 MAXIMUM MARKS: 100

	HOURS ALLOTED: 60 MAXIMUM MARKS: 100			
S.No.	Topic	Hours	Weight age	
01	WINDOWS OPERATIONS A. Creating Folders B. Creating Shortcuts C. Copying Files/Folders D. Renaming Files/Folders E. Deleting Files F. Exploring Windows G. Quick Menus	05	15%	
02	MS-OFFICE 2007 MS WORD CREATING A DOCUMENT A. Entering Text B. Saving the Document C. Editing a Document already saved to Disk D. Getting around the Document E. Find and Replace Operations F. Printing the Document FORMATTING A DOCUMENT A. Justifying Paragraphs B. Changing Paragraph Indents C. Setting Tabs and Margins D. Formatting Pages and Documents	15	25%	
	E. Using Bullets and Numbering F. Headers/Footers GPagination SPECIAL EFFECTS A. Print Special Effects e.g. Bold, Underline, Superscripts, Subscript B. Changing Fonts CChanging Case CUT, COPY AND PASTE OPERATION A. Marking Blocks B. Copying and Pasting a Block C. Cutting and Pasting a Block			
	D. Deleting a Block E. Formatting a Block F. Using Find and Replace in a Block USING MS-WORD TOOLS A. Spelling and Grammar B. Mail Merge CPrinting Envelops and Labels			

	TABLES	1	
	TABLES		
	A. Create		
	B. Delete		
	C. Format		
	GRAPHICS		
	A. Inserting Clip arts		
	B. Symbols (Border/Shading)		
	C. Word Art		
	G. Word / lit		
	DDINT ODTIONS		
	PRINT OPTIONS		
	A. Previewing the Document		
	B. Printing a whole Document		
	C. Printing a Specific Page		
	D. Printing a selected set		
	E. Printing Several Documents		
	F. Printing More than one Copies		
03	MS OFFICE 2007	15	25%
03	MS-EXCEL	13	23/0
	MIQ-EVCET		
	A. How to use Excel		
	B. Starting Excel		
	C. Parts of the Excel Screen		
	D. Parts of the Worksheet		
	E. Navigating in a Worksheet		
	F. Getting to know mouse pointer shapes		
	F. Getting to know mouse pointer snapes		
	CREATING A SPREADSHEET		
	A. Starting a new worksheet		
	B. Entering the three different types of data in a worksheet		
	C. Creating simple formulas		
	D. Formatting data for decimal points		
	E. Editing data in a worksheet		
	F. Using AutoFill		
	G. Blocking data		
	H. Saving a worksheet		
	I. Exiting excel		
	MAKING THE MORKOHEET LOOK PRETTY		
	MAKING THE WORKSHEET LOOK PRETTY		
	A. Selecting cells to format		
	B. Trimming tables with Auto Format		
	C. Formatting cells for:		
	- Currency		
	- Comma		
	- Percent		
	- Decimal		
	- Date		
	D. Changing columns width and row height		
	E. Aligning text		
	- Top to bottom		
	- Text wrap		
<u> </u>	1 OAL MIGP		

- Re ordering Orientation

F Using Borders

GOING THROUGH CHANGES

- A. Opening workbook files for editing
- B. Undoing the mistakes
- C. Moving and copying with drag and drop
- D. Copying formulas
- E. Moving and Copying with Cut, Copy and Paste
- F. Deleting cell entries
- G. Deleting columns and rows from worksheet
- H. Inserting columns and rows in a worksheet
- I. Spell checking the worksheet

PRINTING THE WORKSHEET

- A. Previewing pages before printing
- B. Printing from the Standard toolbar
- C. Printing a part of a worksheet
- D. Changing the orientation of the printing
- E. Printing the whole worksheet in a single pages
- F. Adding a header and footer to a report
- G. Inserting page breaks in a report
- H. Printing the formulas in the worksheet

ADDITIONAL FEATURES OF A WORKSHEET

- A. Splitting worksheet window into two four panes
- B. Freezing columns and rows on-screen for worksheet title
- C. Attaching comments to cells
- D. Finding and replacing data in the worksheet
- E. Protecting a worksheet
- F. Function commands

MAINTAINING MULTIPLE WORKSHEET

- A. Moving from sheet in a worksheet
- B. Adding more sheets to a workbook
- C. Deleting sheets from a workbook
- D. Naming sheet tabs other than sheet 1, sheet 2 and so on
- E. Copying or moving sheets from one worksheet to another

CREATING GRAPHICS/CHARTS

- A. Using Chart wizard
- B. Changing the Chart with the Chart Toolbar
- C. Formatting the chart's axes
- D. Adding a text box to a chart
- E. Changing the orientation of a 3-D chart
- F. Using drawing tools to add graphics to chart and worksheet
- G. Printing a chart with printing the rest of the worksheet data

EXCEL's DATABASE FACILITIES

A. Setting up a database



	B. Sorting records in the database		
04	MS OFFICE 2007	20	25%
	MS-POWER POINT		
	Making a simple presentation		
	B. Using Auto content Wizards and Templates		
	C. Power Points five views		
	D. Slides		
	 Creating Slides, re-arranging, modifying 		
	- Inserting pictures, objects		
	- Setting up a Slide Show		
	E Creating an Organizational Chart		
05	Internet & E-mail – PRACTICAL	05	10%
TOTAL		60	100%

MARKING SCHEME FOR PRACTICAL EXAMINATION

	100	DACC MADIC	EΛ
MAXIMUM MARKS	100	PASS MARKS	วบ

MARKS

1.	VIVA	:	20
2.	Typing & Printing (20 lines)	:	20
3.	6 tasks of 10 marks each	:	60

100

(Refer syllabus for tasks)



BHM106 - HOTEL ENGINEERING HOURS ALLOTED: 60 MAXIMUM MARKS: 100

S.No.	Торіс	Hours	
0.1			Weight
01	MAINTENANCE:	03	age 5%
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	A. Preventive and breakdown maintenance, comparisons		
	B. Roll & Importance of maintenance department in the hotel industry		
	with emphasis on its relation with other departments of the hotel.		
	C. Organization chart of maintenance department, duties and		
	responsibilities of maintenance department		
02.	Fuels used in catering industry:	04	5%
	A. Types of fuel used in catering industry; calorific value; comparative		
	study of different fuels		
	B. Calculation of amount of fuel required and cost.		
03	Gas:	04	5%
	A. Heat terms and units; method of transfer		
	B. LPG and its properties; principles of Bunsen and burner,		
	precautions to be taken while handling gas; low and high-pressure		
	burners, corresponding heat output.		
0.4	C. Gas bank, location, different types of manifolds	00	400/
04	Electricity:	06	10%
	A Fundamentale of electricity inculators conductors current		
	A. Fundamentals of electricity, insulators, conductors, current, potential difference resistance, power, energy concepts; definitions,		
	their units and relationships, AC and DC; single phase and three		
	phase and its importance on equipment specifications		
	B. Electric circuits, open circuits and close circuits, symbols of circuit		
	elements, series and parallel connections, short circuit, fuses;		
	MCB, earthing, reason for placing switches on live wire side.		
	C. Electric wires and types of wiring		
	D. Calculation of electric energy consumption of equipment, safety		
	precaution to be observed while using electric appliances.		
	E. Types of lighting, different lighting devices, incandescent lamps,		
	fluorescent lamps, other gas discharged lamps, illumination, and		
	units of illumination.		
	F. External lighting		
	G. Safety in handling electrical equipment.	0.1	-0/
05.	Water systems:	04	5%
	A. Water distribution system in a hotel		
	B. Cold water systems in India		
	C. Hardness of water, water softening, base exchange method		
	(Demonstration)		
	D. Cold water cistern swimming pools		
	E. Hot water supply system in hotels		
	F. Flushing system, water taps, traps and closets.		
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A. Basic principles, latent heat, boiling point and its dependence on pressure, vapour compressor system of refrigeration and refrigerants B. Vapour absorption system, care and maintenance of refrigerators, defrosting, types of refrigerant units, their care and maintenance. (Demonstration) C. Conditions for comfort, relative humidity, humidification, dehumidifying, due point control, unit of air conditioning D. Window type air conditioner, central air conditioning, preventive maintenance E. Vertical transportation, elevators, escalators. Of Fire prevention and fire fighting system: A. Classes of fire, methods of extinguishing fires (Demonstration) B. Fire extinguishes, portable and stationery C. Fire detectors and alarm D. Automatic fire detectors cum extinguishing devices E. Structural protection F. Legal requirements Os Waste disposal and pollution control: A. Solid and liquid waste, sullage and sewage, disposal of solid waste B. Sewage treatment C. Pollution related to hotel industry D. Water pollution, noise pollution E. Air pollution, noise pollution, thermal pollution E. Air pollution, noise pollution, thermal pollution E. A. Accident prevention B. Silps and falls C. Other safety topics Os 5% A. Circumstances under which equipment are replaced. B. Replacement policy of items which gradually deteriorates C. Replacement when the average annual cost is minimum D. Replacement when the average annual cost is minimum D. Replacement when the average annual cost is minimum D. Replacement policy of items which gradually deteriorates C. Replacement en the present cost is minimum E. Economic replacement cycle for suddenly failing equipment 12. Audio visual equipments: Os 10% A. Various audio visual equipment used in hotel B. Care and cleaning of overhead projector, slide projector, LCD and power point presentation units C. Maintenance of computers: D. Care and cleaning of PC, CPU, Modem, UPS, Printer, Laptops E. Sensors – Various sensors used in different locations of a hotel typ	06	Refrigeration & Air-conditioning:	10	15%
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E. Sensors – Various sensors used in different locations of a hotel –		·		
		type, uses and cost effectiveness		

13.	Contract maintenance:	03	5%
	 A. Necessity of contract maintenance, advantages and disadvantages of contract maintenance B. Essential requirements of a contract, types of contract, their comparative advantages and disadvantages. 		
	C. Procedure for inviting and processing tenders, negotiating and finalizing		
TOTAL		60	100%

BHM116 - NUTRITION

HOURS ALLOTED: 30 MAXIMUM MARKS: 100

S.No.	Topic	Hours	Weight
	·		age
01	BASIC ASPECTS	01	5%
	A. Definition of the terms Health, Nutrition and Nutrients		
	B. Importance of Food – (Physiological, Psychological and Social		
	function of food) in maintaining good health.		
02	C. Classification of nutrients ENERGY	03	10%
02	ENERGI	03	10 /0
	A. Definition of Energy and Units of its measurement (Kcal)		
	B. Energy contribution from macronutrients (Carbohydrates, Proteins		
	and Fat) C. Factors affecting energy requirements		
	D. Concept of BMR, SDA, Thermodynamic action of food		
	E. Dietary sources of energy		
	F. Concept of energy balance and the health hazards associated with		
02	Underweight, Overweight		
03	MACRO NUTRIENTS		
	Carbohydrates	04	10%
	Definition		
	Classification (mono, di and polysaccharides)		
	Dieteary SourcesFunctions		
	 Functions Significance of dietary fibre (Prevention/treatment of diseases) 		
	eigninoanos or aistary insis (i reventient acaument or aissasse)		
	Lipids	04	10%
	Definition		
	Classification : Saturated and unsaturated fats		
	Dietary Sources		
	• Functions		
	 Significance of Fatty acids (PUFAs, MUFAs, SFAs, EFA) in maintaining health 		
	Cholesterol – Dietary sources and the Concept of dietary and blood		
	cholesterol		
	Proteins	04	10%
	D. C. 11		
	Definition Classification based upon amino acid composition		
	Classification based upon amino acid compositionDietary sources		
	Functions		
	Methods of improving quality of protein in food (special emphasis)		
	on Soya proteins and whey proteins)		

04	MACRO NUTRIENTS A. Vitamins	05	15%
	Definition and Classification (water and fats soluble vitamins)		
	Food Sources, function and significance of:		
	Fat soluble vitamins (Vitamin A, D, E, K)		
	2. Water soluble vitamins (Vitamin C, Thiamine, Riboflavin,		
	Niacin, Cyanocobalamin Folic acid		
	B. MINERALS	03	10%
	Definition and Classification (major and minor)	03	10%
	Food Sources, functions and significance of :		
0.5	Calcium, Iron, Sodium, Iodine & Flourine	04	F0/
05	WATER	01	5%
	Definition Distant Sources (visible invisible)		
	Dietary Sources (visible, invisible)Functions of water		
06	Role of water in maintaining health (water balance) BALANCED DIET	01	5%
00	Definition	UI	5 /0
	Importance of balanced diet		
	RDA for various nutrients – age, gender, physiological state		
07	MENU PLANNING	02	10%
07	Planning of nutritionally balanced meals based upon the three food	02	1070
	group system		
	Factors affecting meal planning		
	Critical evaluation of few meals served at the Institutes/Hotels		
	based on the principle of meal planning.		
	Calculation of nutritive value of dishes/meals.		
08	MASS FOOD PRODUCTION	01	5%
	Effect of cooking on nutritive value of food (QFP)		
09	NEWER TRENDS IN FOOD SERVICE INDUSTRY IN RELEVANCE TO NUTRITION AND HEALTH	01	5%
	Need for introducing nutritionally balanced and health specific		
	meals		
	Critical evaluation of fast foods		
	New products being launched in the market (nutritional evaluation)		
TOTAL	_	30	100%