

Seat No.	
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B.Sc. (F.T.M.) (Part - I) (Semester - I) (New)
Examination, April - 2019
COMMUNICATION & SOFT SKILLS - I
Sub. Code : 57278

Day and Date : Thursday, 25 - 04 - 2019

Total Marks : 50

Time : 11.00 a.m. to 1.00 p.m.

- Instructions :**
- 1) All questions are compulsory.
 - 2) Figures to the right indicate full marks.
 - 3) Draw neat labelled diagrams wherever necessary.

Q1) Fill in the blanks.**[10]**

- a) Sharing of _____ means communication.
 - i) knowledge
 - ii) ideas
 - iii) thoughts
 - iv) all of the above
- b) _____ is the special form of report.
 - i) F.I.R.
 - ii) accident
 - iii) investigation
 - iv) none of above
- c) Priya is fond _____ chocolate.
 - i) of
 - ii) in
 - iii) out
 - iv) at
- d) _____ is a common noun.
 - i) india
 - ii) boy
 - iii) the
 - iv) sky
- e) The boy spent all _____ money at the fair.
 - i) her
 - ii) by
 - iii) his
 - iv) she
- f) _____ is a language barrier.
 - i) stammering
 - ii) attitude
 - iii) ego
 - iv) none of the above

P.T.O.

- g) I will come _____ you accompany me.
 i) and ii) or
 iii) but iv) If
- h) He fought _____ courage.
 i) by ii) in
 iii) with iv) of
- i) Gestures are _____ communication.
 i) written ii) non-verbal
 iii) verbal iv) oral
- j) _____ is not a part of letter.
 i) date ii) salutation
 iii) recommendations iv) enclosure

Q2) Write short notes. (Any four)

[20]

- Draft any Situational communication.
- Define any five contents of report.
- Explain the meaning & uses of Social networking site
- Explain the disadvantages of internet.
- Define meaning & examples verbal communication.
- Explain the advantages of mobile.

Q3) Attempt any two out of three.

[20]

- Explain the communication cycle with the help of diagram.
- Explain the physical & language barrier with the example.
- Write a complaint letter to Gemini oils informing them about the leak packets delivery.



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B.Sc. (F.T.M.) (Part - I) (Semester - I)

(New) Examination, April -2019

COMPUTER NETWORK

Principles of Food Preparation & Preservation - I (Paper - I)

Sub. Code : 57280

Day and Date : Saturday, 27 - 04 - 2019

Total Marks : 50

Time : 11.00 a.m. to 1.00 p.m.

- Instructions :**
- 1) All questions are compulsory.
 - 2) Figures to the right indicate full marks.
 - 3) Draw a neat labelled diagram wherever necessary.

Q1) Choose the correct alternative from given choices: [10]

- a) _____ method is effective to inactivate the enzymes in food.
 - i) Grilling
 - ii) Blanching
 - iii) Baking
 - iv) Frying
- b) The process of removal of air from cans during canning is known as _____.
 - i) Sealing
 - ii) Clenching
 - iii) Exhausting
 - iv) Brining
- c) Degradation of _____ leads to softening & liquification of food.
 - i) Carbohydrates
 - ii) Fats
 - iii) Proteins
 - iv) Vitamins
- d) Fruits are coated with _____ before refrigeration to enhance shelf life.
 - i) Iodine
 - ii) Sulphites
 - iii) Borax
 - iv) All of above
- e) Lumping & Crystallization in dry foods can be prevented by adding _____.
 - i) Antioxidants
 - ii) Emulsifiers
 - iii) Humectants
 - iv) Chelating agents
- f) _____ is the method of transfer of heat by direct contact.
 - i) Conduction
 - ii) Convection
 - iii) Radiation
 - iv) Microwave

P.T.O.

- g) _____ refers to soaking of food to add flavours & to tendrise the food.
- i) Coating
 - ii) Marinating
 - iii) Battering
 - iv) Breading
- h) _____ is a method of low temperature preservation where the temperature is -23 to -29°C
- i) Chilling
 - ii) Refrigeration
 - iii) Air freeling
 - iv) Cellar storage
- i) In _____ pasteurization method the time temperature is 62.8°C for 30 min.
- i) LTLT
 - ii) HTST
 - iii) UHT
 - iv) Aseptic canning
- j) _____ toxins are produced by moulds are responsible for food spoilage.
- i) Neurotoxins
 - ii) Endotoxins
 - iii) Mycotoxins
 - iv) None

Q2) Answer the following (any two).

[20]

- a) Give flowsheet of canning I explain it.
- b) Define food spoilage I explain food spoilage by micro-organisms.
- c) Classify cooking methods & elaborate any two moist heat methods with merits & demerits.

Q3) Answer the following (any four)

[20]

- a) Comment on Refrigeration - a preservation method.
- b) Write a short note on Immersion freezing.
- c) State different methods of heat transfer to food.
- d) Explain in brief pasteurization.
- e) Explain physical, chemical & biological changes in food due to spoilage.
- f) Write any 3 methods of preliminary preparation.



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B.Sc. (F.T.M.) (Part - I) (Semester - I)
(New) Examination, April -2019
HUMAN PHYSIOLOGY - I
Sub. Code : 57281

Day and Date : Monday, 29 - 04 - 2019

Total Marks : 50

Time : 11.00 a.m. to 1.00 p.m.

- Instructions :**
- 1) All the questions are compulsory.
 - 2) Figures to the right indicate full marks.
 - 3) Draw neat diagrams wherever needed.

Q1) Choose the correct answer from the given choices.

[10]

- a) Lungs are present in _____
 - i) Pelvic cavity
 - ii) Thoracic cavity
 - iii) Abdominal cavity
 - iv) Cranial cavity
- b) The protein synthesis occurs in _____
 - i) Smooth Endoplasmic reticulum
 - ii) Lysosomes
 - iii) Golgi apparatus
 - iv) Rough endoplasmic reticulum
- c) The Eosinophils are increased in _____ conditon
 - i) Burns
 - ii) Allergy
 - iii) Fever
 - iv) None
- d) _____ constitue the organic waste products found in plasma.
 - i) urea
 - ii) uric acid
 - iii) creatinine
 - iv) All above
- e) The formation of RBCs take place in _____
 - i) Blood
 - ii) Lymph nodes
 - iii) Bone marrow
 - iv) None

P.T.O.

- f) The muscular tissue of heart is _____
 i) Endo cardium ii) Pericardium
 iii) Myocardium iv) None
- g) First sound in heart, which is comparactively louder is _____
 i) Lubb ii) Dubb
 iii) Both iv) None
- h) Sphygmomanometer is used to measure _____.
 i) Pulse ii) Stroke volume
 iii) Blood pressure iv) Cardiac output
- i) _____ are the respiratory muscles.
 i) Diaphragm ii) Intercostal muscles
 iii) Both iv) None
- j) _____ is common organ for digestive system and respiratory system
 i) Bronchii ii) Larynx
 iii) Pharynx iv) Trachea

Q2) Answer the following (Any 4)

[20]

- Discuss the structure & functions of simple epithelial tissue.
- Write a note on structure and functions of endoplasmic refticulum.
- Write a note on Rh grouping & state it's significance.
- Describe the composition of plasma.
- Define heart rate & add a note on factors affecting it.
- List the organs of respiratory system with help of diagrams & add a note on respiratory muscles.

Q3) Answer the following (any 2)

[20]

- Discuss the different types of Muscle tissue stating it's structure & functions.
- Describe the structure and functions of RBC. Add a note on platelets.
- With help of diagram explain the structure and functions of heart.



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B.Sc. (F.T.M.) (Part - I) (Semester-I) (New) Examination, April - 2019

FOOD CHEMISTRY - I

Sub. Code: 57282

Day and Date : Tuesday, 30 - 04 - 2019

Total Marks : 50

Time : 11.00 a.m. to 1.00 p.m.

- Instructions :**
- 1) All questions are compulsory.
 - 2) Figures to the right indicate full marks.
 - 3) Draw neat labelled diagram wherever necessary.

Q1) Choose correct alternative from given choices.

[10]

- a) _____ is insoluble in water.
- i) Amylose
 - ii) Sucrose
 - iii) Amylopectin
 - iv) None of these
- b) Protein provides _____ Kcal/gm.
- i) 4
 - ii) 9
 - iii) 7
 - iv) 10
- c) Rancidity is degree of measure of _____.
- i) Polymeration
 - ii) Hydrolysis
 - iii) Oxidation
 - iv) Reduction
- d) _____ is composed of glucose and galactose
- i) Lactose
 - ii) Sucrose
 - iii) Cellobiose
 - iv) Maltose
- e) _____ vitamin is very sensitive to light.
- i) Thiamin
 - ii) Riboflavin
 - iii) Niacin
 - iv) All of above
- f) _____ is required for conversion of inactive folic acid to active folic acid.
- i) Vitamin D
 - ii) Vitamin A
 - iii) Vitamin C
 - iv) Niacin

P.T.O.

- g) _____ are amphoteric in nature.
- i) Lipids
 - ii) Carbohydrates
 - iii) Proteins
 - iv) Vitamins
- h) _____ accelerates rate of polymerization of fat.
- i) High temperature
 - ii) Presence of oxygen
 - iii) Both (i) and (ii)
 - iv) None of these
- i) _____ is not act as anti-oxidants.
- i) Ascorbic acid
 - ii) BHA
 - iii) BHT
 - iv) Phosphoric acid
- j) Deficiency of niacin leads to _____.
- i) Beri-beri
 - ii) Scurvy
 - iii) Pellagra
 - iv) Rickets

Q2) Answer the following (Any Two)

[20]

- a) Write in detail structure of protein.
- b) Explain functions, deficiency, sources and RDA of vitamin A.
- c) Define lipids and explain chemical properties of lipids.

Q3) Attempt the following (Any four)

[20]

- a) Define and classify vitamins.
- b) Comment on vitamin E.
- c) Write a note on get formation of protein.
- d) Comment on disaccharides.
- e) Explain physical properties of lipids.
- f) Write a note on starch.



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B.Sc. (F.T.M.) (Part-I) (Semester-I) (New)

Examination, May - 2019

FUNDAMENTALS OF FOOD MICROBIOLOGY - I

Sub. Code: 57283

Day and Date : Thursday, 02 - 05 - 2019

Total Marks : 50

Time : 11.00 a.m. to 1.00 p.m.

- Instructions :**
- 1) All questions are compulsory.
 - 2) Figures to right indicate full marks.
 - 3) Draw a neat labelled diagram wherever necessary.

Q1) Choose the correct alternative from given choices:

[10]

- a) The unit of measurement of bacterial size is _____.
- i) Micron
 - ii) Micrometer
 - iii) Angstrom
 - iv) All of above
- b) The 3rd amino acid of tetrapeptide side chain in Gram-positive bacterial cell wall is _____.
- i) L-lysine
 - ii) L-alanine
 - iii) Mesodiamino pimilic acid
 - iv) D-glytanic acid
- c) _____ is a macronutrient.
- i) Cobalt
 - ii) Zinc
 - iii) Molybdenum
 - iv) Magnesium
- d) Rhodospirillum rubum use _____ as electron donor.
- i) H₂S
 - ii) Succinate
 - iii) CO₂
 - iv) H₂O

- e) The organic compound of capsule is _____.
i) Protein ii) Polysaccharide
iii) Lipid iv) Water
- f) _____ serve as a site for bacteriophage attachment.
i) Capsule ii) Flagella
iii) Pilli iv) Cell wall
- g) Protozoa reproduce by _____.
i) Binary fission ii) Multiple fission
iii) Budding iv) All of above
- h) _____ is shortest time required to kill micro-organisms in suspension at a specific temperature and under defined conditions.
i) Thermal Death Time
ii) Decimal Reduction Time
iii) Thermal Reduction Time
iv) Decimal Death Time
- i) Autoclave was discovered by _____.
i) Louis Pasteur ii) Joseph Lister
iii) Robert Koch iv) Chamberland
- j) _____ organisms obtain energy by oxidation of chemical compounds.
i) Phototrophs ii) Autotrophs
iii) Photolithotrophs iv) Chemotrophs

Q2) Answer the following: (any 2)

[20]

- a) Explain sterilization using halogens and heavy metals.
- b) Discuss chemical composition and functions of capsule.
- c) Discuss nutritional categories of micro-organisms based on nature of energy and carbon source.

Q3) Attempt the following: (any 4)

[20]

- a) Elaborate on controversy over spontaneous generation.
- b) Write about arrangement of cocci bacteria.
- c) Draw a neat labelled diagram showing structure of typical bacterial cell.
- d) Give functions of cell membrane.
- e) Comment on moist heat sterilization.
- f) Write about bacterial requirements of growth factors.

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