



GAV-401

Seat No. \_\_\_\_\_

B. Sc. (Sem. IV) Examination

March / April - 2017

English

(Foundation Compulsory)

Time : 3 Hours]

[Total Marks : 70

- 1 (a) "A political atmosphere means sacrifice of some moral values" - How does the story "The Voter" explicate this ? 15

OR

- (b) Summarize the story 'The diamond necklace' in your own words. 15

2 Answer any five of the following : 20

- (a) How do the election campaigners exploit the villagers ?

- (b) What type of questions did the drivers ask the author on his hitch-hiking days ?

- (c) How did Mini overcome her fear of the Cabuliwallah ?

- (d) What did the author say about the girl's face ?

- (e) What does the writer say about Mini's chattering ?

- (f) How did Malthide finally replace the necklace ?

- (g) What did villagers comment among themselves when the feast was over ?

- (h) Why does the narrator appreciate the hitch-hicker ?

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3 Form meaningful sentences using the following phrases or phrasal verbs : (any seven)  
 Plenty of, headed for, call on, smack one's lips, do up, set out, in consequence of, put on, to make a bargain, to take a place.

4 (a) Identify the clauses in the following sentences 6 and name them: (any six)

- (a) How on earth he manages is mystery ?
- (b) She asked me why he stood there.
- (c) He who helps the needy is really kind.
- (d) If work hard, you will pass.
- (e) It is a long story that has no end.
- (f) Though he is sincere, people do not take him seriously.
- (g) As the weather was wet, the children did not go out.

(b) Fill in the blanks with appropriate non-finite verbs from those given in the brackets : 6 (any six)

- (a) \_\_\_\_\_ trees is really a very good project. (plant/planting/planted)
- (b) I enjoy \_\_\_\_\_ around in rainy season. (move/to move/moving/moved)
- (c) She is writing with \_\_\_\_\_ heart. (shatter/shattered/shattering/to shatter)
- (d) They got us \_\_\_\_\_ the whole day. (work/worked/to work/working)
- (e) God \_\_\_\_\_ we shall meet again. (willing/will/willed)

- He has to vacate the \_\_\_\_\_ house  
 very soon (selling/sold/to sell)
- (g) My father made me \_\_\_\_\_ very  
 hard. (worked/working/make/making)
- (c) Fill in the blanks with appropriate prefix  
 and suffix : (any six)
- (a) It is the dictum of every religion to show  
 \_\_\_\_\_ to all. (kindness/kindhood/  
 kindly)
- (b) People have right to fight against any  
 \_\_\_\_\_ done to them. (injustice/  
 justified/justly)
- (c) Have you seen that new \_\_\_\_\_ ? He  
 is very funny. (comedy/comedian/comic)
- (d) He needed to \_\_\_\_\_ temperature.  
 (irregular/regularize/regular)
- (e) The bacteria are so small that you need  
 a \_\_\_\_\_ to see them. (microscope/  
 bioscope)
- (f) You will be punished if your action is  
 \_\_\_\_\_ (illegally/illegal)
- (g) Teachers don't like \_\_\_\_\_ students.  
 (impolite/dispolite)
- 5 (a) Draft an application for the post of a  
 librarian in a reputed science college. 10
- OR
- (b) Write an application for the post of  
 lecturer in Chemistry in a degree college. 10





GAY-413

Seat No. \_\_\_\_\_

B. Sc. (Sem. IV) Examination

March / April - 2017

Microbiology : MI-205

(Food & Dairy Microbiology)

Time : 3 Hours ]

[ Total Marks : 70

Instruction : All questions are compulsory.

I Answer the following Multiple Choice questions : 10

(1) Sauerkraut is prepared by fermentation of which of the following ?

(A) Olives (B) Cabbage

(C) Cucumber (D) Milk

(2) Which of the following product can be used as a medicinal agent ?

(A) Pasteurised Milk (B) Raw milk

(C) Acidophilus milk (D) Sterilized milk

(3) Which of the following is used in radiation treatment ?

(A) Alpha rays (B) UV rays

(C) Gamma rays (D) Beta rays

(4) Which of the following is a type of food borne disease ?

(A) Tuberculosis (B) Typhoid  
(C) AIDS (D) Pneumonia

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- (5) Which of the following is used in ripening of cheese ?  
 (A) Trypsin (B) Casein  
 (C) Rennin (D) Lipase
- (6) Which of the following bacteria is responsible for spoilage canned food ?  
 (A) *Halobacterium salinarum*  
 (B) *E. coli*  
 (C) *Pseudomonas sp.*  
 (D) *Clostridium sp.*
- (7) Grading of milk can be determined by \_\_\_\_\_ test.  
 (A) MPN (B) SPC  
 (C) Resazurin (D) Phosphatase
- (8) Mycotoxins are produced by \_\_\_\_\_  
 (A) Algae (B) Fungi  
 (C) Virus (D) Bacteria
- (9) \_\_\_\_\_ is also known as Father of Canning.  
 (A) Louis Pasteur (B) Nicholas Appert  
 (C) Robert Koch (D) Cesar Milstein
- (10) The oldest known procedure used for food preservation is \_\_\_\_\_  
 (A) Pasteurization (B) Salting  
 (C) Canning (D) Sterilization

2 Give the answer of the following short questions : 10

(any five)

(1) Define : Botulism.

(2) Enlist food borne diseases.

(3) Define the term : Probiotics.

(4) Name the microorganisms used in cheese production.

(5) Enlist the methods used for microbiological examination of food.

(6) Define : Starter culture.

(7) Name the causative agents of Q fever and Listerculosis.

(8) Explain the term : Spoilage.

3 Give the answer in brief of the following questions : 16

(any four)

(1) Draw a brief account on GMP.

(2) Discuss the total viable count.

(3) Write a note on food borne intoxication.

(4) Discuss phosphatase test.

(5) Write a note on microbial flora of fresh foods.

(6) Write a note on edible mushrooms.

4 Give the answer in brief of the following questions : 16

(any four)

(1) Write about green olives and sausages as fermented foods.

(2) Discuss MPN technique.

(3) Discuss use of low temperature for food preservation.

- 5 Write short notes on the following questions : 18
- (any three)
- (1) Cheese, with reference to its types and processes involved in its production
  - (2) Food spoilage
  - (3) Food preservation methods
  - (4) Single Cell Protein
  - (5) Role of *Staphylococcus aureus*, *Salmonella typhi* and *Clostridium botulinum* in food poisoning.
- (4) Write a note on any two fermented dairy products.
  - (5) Write a note on Spirulina.
  - (6) Write a note on sources of contamination resulting in food and milk borne diseases.