

Module 3- Material

SECTION A

Answer all questions.

Every question is followed by four answer **A, B, C** and **D**. Choose the correct answer. Then, blacken your answer on the answer sheet provided. The suggested time for this section is 45 minutes. If you are unable to answer a question, proceed to the next question.

- 1 Razi kept the following food in a cupboard. Which food would be the first to spoil?

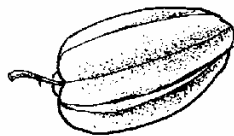
A



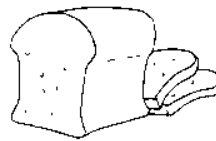
B



C



D

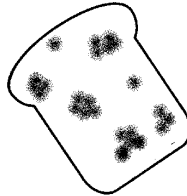


- 2 Which of the following are the characteristics of spoilt food?

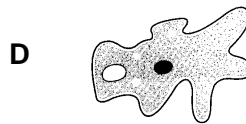
- I** It is colourful
- II** It is slimy
- III** It is mouldy
- IV** It has an unpleasant smell

- A** I and II only
- B** III and IV only
- C** II, III and IV only
- D** I, II, III and IV

- 3 Diagram shows dark spots on a slice of spoilt bread.



Which of the following microorganisms are growing on the bread?



- 4 Which of the following conditions are the most suitable for micro-organisms to grow in?
- A Hot and dry
 - B Damp and warm
 - C Wet and hot
 - D Cold and warm
- 5 Food preservation is a process by which
- A micro-organisms are killed
 - B food is treated so that it will keep
 - C micro-organisms are removed from food
 - D food is made more tasty

6 The information below is about the preservation of tapioca.

- i. The tapioca is boiled
- ii. The tapioca is cut into smaller pieces
- iii. The tapioca is dried in the Sun
- iv. The tapioca is filled into a pack
- v. The air is removed from the pack and then the pack is sealed

Which of the following are involved in the above process?

J - Drying

L - Salting

K - Pickling

M – Vacuum-packing

- A J and L
- B J and M
- C L and K
- D J, L, and M

7 Mak Munah uses more vinegar to preserve fruit. Which of the following about the fruit that is preserved by Mak Munah are true?

- I The taste of the fruit changes
- II The nutrients in the fruit increase
- III The fruit becomes more acidic
- IV The fruit will keep longer

- A I and II only
- B II and IV only
- C I, III and IV only
- D I, II, III and IV

8 In a process of food preservation, food is heated to a high temperature to kill micro-organisms. Which of the following methods involves the process described above?

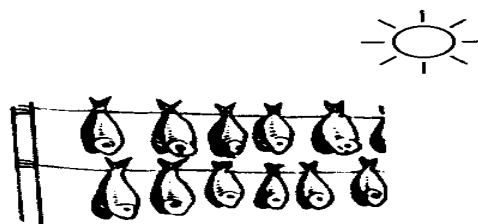
- A Pickling
- B Salting
- C Freezing
- D Canning

- 9 The following is a list of several methods of food preservation.

J	-	Salting
K	-	Freezing
L	-	Drying

Which method can be used for preserving eggs?

- A J only
B J and K only
C K and L only
D J, K and L
- 10 Diagram shows a method of food preservation.



Which of the following processes is involved in the method shown above?

- A Condensation
B Evaporation
C Boiling
D Freezing
- 11 The following are the steps in the pickling of fruit.

P	-	Mix the fruit with salt and leave overnight
Q	-	Soak the fruit in a concentrated sugar solution
R	-	Wash and drain the fruit again
S	-	Slice the young fruit
T	-	Wash and drain the fruit

Which of the following is the correct sequence?

- A S, P, T, Q, R
B T, P, R, Q, P
C S, T, P, R, Q
D P, R, Q, S, T
- 12 Which of the following food and method of preservation are correctly matched?

- A Mangoes – canning
B Milk – pasteurization
C Eggs - drying
D Meat - waxing

13 The growth of bacteria and fungi in food can be prevented by removing water from the food.

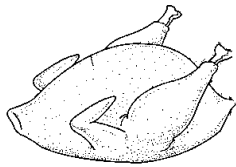
Based on the above statement, which of the following methods of preserving food can be used?

- I Salting
- II Drying
- III Smoking
- IV Vacuum-packing

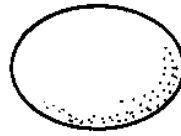
- A I and II only
- B II and III only
- C II and IV only
- D I, II and IV only

14 Which of the following food can be preserved by waxing?

A



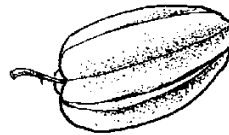
B



C



D



15 Which of the following are the benefits of preserving food?

- I Food can be stored and transported easily
- II Food will keep for a longer time
- III The price of food will increase
- IV Wastage of food can be prevented

- A I and II only
- B I and IV only
- C I, II and III only
- D I, II and IV only

16 The conditions in a housing estate are listed below.

- Unpleasant smell
- Infested with houseflies

Which of the following is the cause of the conditions listed above?

- A Open burning of rubbish
- B Release of smoke from factories into the air
- C Improper disposal of rubbish
- D Release of factory waste into rivers

- 17** Haze is the cause of air pollution in a certain place.
Which of the following activities will cause air pollution in that place to become more serious?
- A** Open burning activities
 - B** Throwing of rubbish into rivers
 - C** Recycling of waste materials
 - D** Release of waste from factories into rivers
- 18** During a festival period, rubbish in a housing area is not collected for several days.
What will happen in the area?
- I** The air will become foggy
 - II** Bacteria will grow
 - III** The air will become smelly
 - IV** Rats and cockroach will increase
- A** II only
 - B** I and III only
 - C** I, II and III only
 - D** II, III and IV only
- 19** Which of the following can cause acid rain?
- I** Liquid waste from factories
 - II** Smoke from factories
 - III** Exhaust gas from vehicles
- A** II only
 - B** I and II only
 - C** II and III only
 - D** I, II and III
- 20** Which of the following is the most suitable way to dispose of waste that can decay?
- A** Recycling
 - B** Throwing into rivers
 - C** Open burning
 - D** Burying in the ground

21 Which of the following are the effects of unplanned waste disposal?

- I Air pollution
- II Water pollution
- III Soil pollution
- IV Noise pollution

- A I and II only
- B I and III only
- C I, II and III only
- D I, II, III and IV

22 What type of pollution is caused by the irresponsible disposal of the waste listed?

- | |
|---|
| <ul style="list-style-type: none">▪ Insecticide▪ Rubbish |
|---|

- A Air pollution
- B Water pollution
- C Land pollution
- D Noise pollution

23 Which of the activities listed below can cause water pollution?

- | |
|---|
| <p>W: Oil spill from a ship
X: Open burning
Y: Disposal of toxic waste from a factory
Z: Recycling of waste materials</p> |
|---|

- A W and Y only
- B X and Z only
- C W, X and Y only
- D X, Y and Z only

24 The materials below are waste disposed by households. Which of these items can be recycled?

- | | |
|---|---|
| <p>P – Bottles
Q – Aluminium cans</p> | <p>R – Leftover food
Z – Old newspapers</p> |
|---|---|

- A P, Q and R only
- B P, Q and Z only
- C P, R and Z only
- D Q, R and Z only

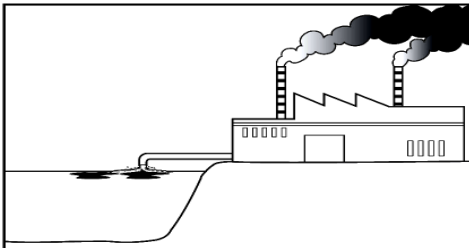
- 25 Based on the information below, which is the most suitable way to handle plastic containers that have been used?

W – buried	Y – recycled
X – burned	Z – reused

- A W and X only
B X and Y only
C Y and Z only
D Z only
- 26 Based on the information below, the material that is recycled is

- * Can save trees in the forest
- * Can conserve energy

- A glass
B aluminium cans
C paper
D plastic
- 27 What type of pollution can be observed in figure below?



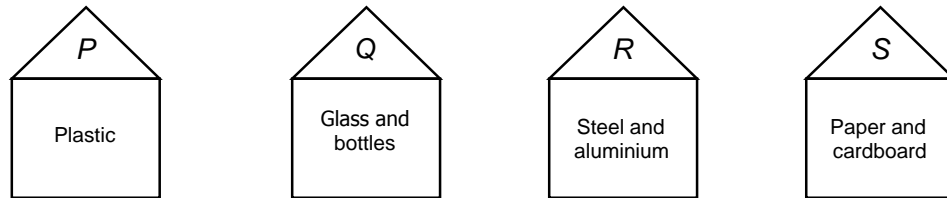
- I Water
- II Land
- III Air
- IV Noise

- A I and III
B I, II and III
C I, III and IV
D I, II, III and IV

28 Which of the following statements about rubbish disposal is suitable to be carried out?

- I** Burn dry leaves and old papers beside the road
 - II** Separate rubbish according to their types and keep them in plastic bags
 - III** Recycle bottles and aluminium cans
- A** I and II only
 - B** II and III only
 - C** III only
 - D** I, II and III

29 Which of the types of rubbish represented by *P*, *Q*, *R* and *S* can be recycled?



- A** *P* and *R* only
 - B** *Q* and *S* only
 - C** *Q*, *R* and *S* only
 - D** *P*, *Q*, *R* and *S*
- 30** Among *P*, *Q*, *R* and *S*, which one can save forest trees from being cut down when it is recycled?
- A** *P*, *Q* and *R* only
 - B** *Q*, *R* and *S* only
 - C** *R* and *S* only
 - D** *S* only

SECTION B

Answer **all** the questions.

Instructions: Write your answers in the spaces provided.

1. Diagram 1 shows a process of preserving food.

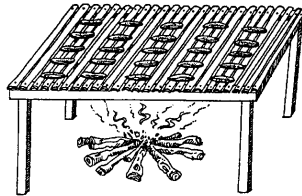


Diagram 1

- (a) Name the method of preserving food.

- (b) How does this method prevent the growth of micro-organisms?

- (c) State **three** foods that can be preserved by method?

1. _____

2. _____

3. _____

2. State **five** harmful effects that can be caused by improper disposal of waste.

(a) _____

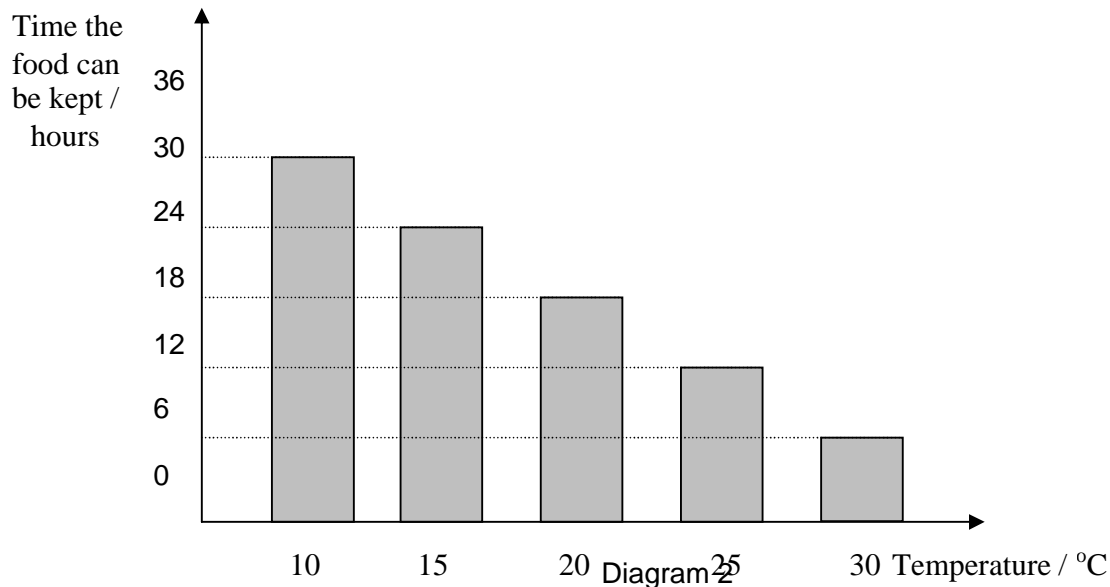
(b) _____

(c) _____

(d) _____

(e) _____

3. A group of pupils carried out an investigation to study the relationship between the lengths of time food will keep and the temperature.
The bar chart in Diagram 2 shows the result of the investigation.



- (a) Based on the bar chart shown above, state the relationship between the length of time the food will keep and the temperature.

(b) In this experiment, state

i. what is changed,

ii. what is kept the same,

iii. what is observed.

- (c) Give **one** reason to explain why food will keep longer at a lower temperature

- (d) What conclusion can be made from the investigation?

4. Table 1 shows the number of species of fish living in a river from 2000 to 2004

Year	2000	2001	2002	2003	2004
Number of species	120	105	95	85	75

Table 1

(a) What is the trend in the change in the number of species of fish in the river?

(b) Give **two** causes of the trend that you have stated in (a).

1. _____

2. _____

(c) Predict the number of fish species living in the river in the year 2006?
