

DIPLOMA IN FIRE SAFETY

Term-End Examination

June, 2010

BSEI-031 : MEDICAL FIRST AID

00322

Time : 3 hours

Maximum Marks : 100

---

*Note : All questions are compulsory. Q. 1 has Part - A, B From Q. - 2. and attempt any seven questions out of ten. From Q.3 attempt any three questions out of five.*

---

PART-A

1. State *True* or *False* : 12x1=12
- (a) The duty of a fireman is also to render first aid at the scene of fire and at rescue operations. ( )
  - (b) The skull protects the Brain. ( )
  - (c) Excretory System comprises of two Fist size bean shaped bladders inside the abdomen cavity. ( )

- (d) Bones of the pelvis protect the urinary bladder and other internal reproductive organs. ( )
- (e) Medical First - aid process should only commence after the arrival of Doctor. ( )
- (f) Respiratory System comprises of the rib cage which contracts and sucks the atmospheric air during process of inspiration. ( )
- (g) In rescue operations, three aims of first aid to the casualty are preserve life, prevent aggravation and prompt recovery. ( )
- (h) Digestive system includes the stomach which acts as a reservoir for all food eaten and releases a juice for digestion. ( )
- (i) Muscle skeletal system comprises of all the bones, joints, muscles tendons, ligaments and cartilages in the body. ( )
- (j) Mild loss of blood (upto 40%) will cause pallor, sweating body becoming cold, weaker pulse and breathing may increase. ( )
- (k) Degree of shock is inversely proportional to the degree of cause. ( )
- (l) Skeleton comprises of all the bones, joints, muscles tendons, ligaments and cartilages in the body. ( )

## PART-B

Fill in the blanks :

16x1=16

1. (a) In rescue operations, three aims of first aid to the casualty are preserve life, prevent aggravation and prompt \_\_\_\_\_ .
- (b) First aid is a simple form of medical treatment/attention, before a \_\_\_\_\_ becomes available.
- (c) \_\_\_\_\_ system comprises of all the bones, joints, muscles, tendons, ligaments and cartilages in the body.
- (d) The ribs protects the heart \_\_\_\_\_ liver, stomach and spleen.
- (e) Incoming air is \_\_\_\_\_ containing Nitrogen gas about 70%, oxygen gas about 20% and rare gases in traces.
- (f) Digestive system includes the \_\_\_\_\_ which acts as reservoir for all food eaten and releases a juice for digestion.
- (g) The \_\_\_\_\_ system comprises of the brain, spinal cord and the nerves.
- (h) When a body cuts by sharp instrument such as razor, blade etc, it is called \_\_\_\_\_ wound.
- (i) Central Nervous System exercises effective control on the various \_\_\_\_\_ and their functions.

- (j) When a body turns by irregular or blunt edge e.g. cut by the broken bottle edge is called \_\_\_\_\_ wound.
- (k) Blasting due to explosives, gunshot or other reasons can cause \_\_\_\_\_ wound.
- (l) A slight loss of blood (upto 10%) may cause only \_\_\_\_\_ .
- (m) Special service calls shall be attended in the same way as a "Fire Call", when \_\_\_\_\_ is involved.
- (n) The primary duty of the fire service is to \_\_\_\_\_ of life.
- (o) To extricate casualties trapped under the debris requires a lot of \_\_\_\_\_ work.
- (p) Never approach a trapped animal from the \_\_\_\_\_ , but only from the rear or near side.

2. Attempt *any seven* from *ten* questions : **7x6=42**

- (a) What are the causes and types of Shock ?  
What could be the symptoms ?
- (b) Define burns and scalds. Intimate the various classification of BURNS and explain them briefly.
- (c) Write briefly on Fractures and their management.

- (d) Write briefly the following types of the wounds :
- (i) Abrasion wound
  - (ii) Crushed wound
  - (iii) Lacerated wound
- (e) Burn injuries are classified into various degrees. List them and describe briefly.
- (f) Write some points to rescue a person from sewer and river.
- (g) What are Rescue's Do's and Don'ts ? Write five each.
- (h) What are the qualities/characteristics of the First Aider. List any six.
- (i) Write a short note on digestive system.
- (j) Write briefly an general exit requirements in a building.

3. Attempt *any three* out of *five* : **3x10=30**

- (a) What are the stages of rescue in a debris/building collapse ?
- (b) What are the symptoms of the loss of blood at slight, mid loss and severe loss ? Also intimate as to how the bleeding/haemorrhage needs to be managed ?

- (c) Body is made up of various organs which are grouped and classified. Explain the following in detail :
- (i) Muscle skeletal system
  - (ii) Respiratory system
  - (iii) Circulatory system
  - (iv) Excretory system
  - (v) Central nervous system
- (d) What are various types of the Rescue Work ? Explain.
- (e) Rescuing from a sewer can be rather complex. What are the processes, equipments required and precautions ?
-