CENTRAL BHARAT SEVAK SAMAJ

NATIONAL DEVELOPMENT AGENCY, ESTABLISHED IN 1952 BY PLANNING COMMISSION, GOVT. OF INDIA

CENTRAL BOARD OF EXAMINATIONS

BSS NATIONAL VOCATIONAL EDUCATION MISSION

AHE020-ORTHO & TRAUMA CARE TECHNICIAN

ONE YEAR EXAMINATION NOVEMBER-2025

AHE020-01 COMMUNICATIVE ENGLISH AND COMPUTER FUNDAMENTALS

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) Noun is a _____ Word

2) Let the door _____ opened

3) He travelled _____ Ticket.

4) I _____ seen the Tajmahal.

5) The cat is _____ the wall.

6) MS word is used for _____

7) I have _____ car

8) _____ is a copy of the files on the computer typically it is stored o harddisk.(backup)

9) Computers can only understand _____ language

10) Computer is an electronic _____

11) _____ are where the text is typed

12) Below the menu bar _____ bar appears

13) The word computer is comes from the word _____

14) Ramu is _____ doctor and he looks after patients well

15) Computer can only understand _____ language.

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Define the formation of Adjectives?
2) Define what are exclamatory words?
3) Define some relative adverbs?
4) Define active and passive voice?
5) Define kinds of Adverbs?
6) Define uncountable nouns?
7) What is meant by common Gender?
8) What is meant by strong verbs?
9) Windows
10) CPU
11) Attrib
12) Enter
13) MS Access
14) Explain Cut, Copy and 'Paste'
15) Informal letter

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Define what is meant by omission of article?
2) Define usage of interjection
3) Define degrees of comparison
4) Write a letter to a book seller ordering some prize books?
5) Explain 'find', 'replace' and 'go to'.
6) Different software and hardware
7) Substance abuse
8) Causes of respiratory distress

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Write a letter to your father asking permission join the N.C.C?
2) Explain a computer and draw a block diagram
3) Explain structure of computer
4) Describe the relevance of computerization in hospital field
5) How to create a new folder

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AHE020-ORTHO & TRAUMA CARE TECHNICIAN

ONE YEAR EXAMINATION NOVEMBER-2025

AHE020-02 ORTHO THEORY

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) what is reperfusion injury?

2) What is the bone healing?

3) Define gout.

4) What is tuberculoma?

5) Write short notes on vitamin D resistant rickets.

6) Write short notes on cast syndrome.

7) what is Kienbocks disease?

8) what is dupuytren's fracture dislocation?

9) Discuss the etiology.

10) write short notes on discoid meniscus.

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Explain the clinical features of osteogenesis imperfecta.
2) Enumerate the portals for arthroscopy of knee joint.
3) Classify pelvic fracture.
4) What is 'VAC'?
5) Define osteoporosis.
6) short notes on gram negative septicemia.
7) short notes on LCP.
8) State the gross physical features of synovial fluid.
9) What is mean by bacterial colonization?
10) What is damage control orthopedics.?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Describe the treatment of acute flexor tendon injuries in various zones of hand
2) write SN on nuclear medicine and its applications in orthopaedics.
3) List the factors affecting Ca metabolism. Describe the radiological features of rickets
4) Describe the structure of bone.
5) Discuss the management of diaphyseal gap nonunion with 5 cm bone loss in a young adult.
6) Discuss the management of deep vein thrombosis in orthopaedic patients
7) Describe the principles of stabilization of foot
8) Describe the tension band principle and how it is used in fracture care.

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Describe pitfalls in using the Locking Compression Plate.
2) Describe different types of bone grafts along with their properties.
3) Discuss the indications of surgery in TB spine with or without neurological complications.
4) Describe various types of lumbar root anomalies. List the complications of lumbar disc surgery.
5) Describe the phases of normal gait and the types of muscle contractions in gait cycle.

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AHE020-ORTHO & TRAUMA CARE TECHNICIAN

ONE YEAR EXAMINATION NOVEMBER-2025

AHE020-03 TRAUMA CARE MANAGEMENT

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) What are the 5 key components of the primary survey in major trauma?
2) What does airway maintenance with cervical spine control involve?
3) What does assessment and management of breathing and ventilation involve?
4) What does disability (neurological evaluation) involve?
5) What does exposure and environmental control involve?
6) What should be examined for in the neck of a trauma patient?
7) What does the secondary survey involve?
8) What is the tertiary survey and what does it involve?
9) How are trauma team activations (TTA) initiated?
10) What typically causes diaphragmatic rupture?

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) How do you treat massive hemothorax?
2) What are the ABCDEs of trauma resuscitation?
3) What is the best radiology study for the initial evaluation of possible head injury?
4) When should you obtain an emergent MRI?
5) What X-rays should be ordered for every major trauma patient?
6) What is the other name for an open pneumothorax?
7) What is a fl ail chest?
8) What puts a patient at risk for aortic rupture?
9) Can penetrating trauma cause cardiac tamponade?
10) What are the five physical findings you should expect with cardiac tamponade?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Does a Trauma Care Facility need a diversion protocol if they do not divert major trauma patients?
2) What kind of complications can arise from a spinal cord injury?
3) What other injuries occurred in addition to the spinal cord injury?
4) What is the goal of rehabilitation therapy?
5) How can a Trauma Care Facility track surgeon response times?
6) What is the Injury Severity Score?
7) What is the difference between the Trauma Service and the performance improvement process?
8) What is the Statewide Trauma System?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain the Spinal trauma.
2) Explain Trauma Services?
3) What is the difference between emergency rooms and a Trauma Resuscitation Unit (TRU)?
4) What are the 5 key components of the primary survey in major trauma?
5) What does airway maintenance with cervical spine control involve?