Total No. of Questions: 6   Total No. of Printed Pages:2

Enrollment No......................................

Faculty of Science
End Sem Examination May-2024
FS3CO14 Forensic Anthropology

Programme: B.Sc. (Hons.)   Branch/Specialisation: Forensic Science

Duration: 3 Hrs.   **Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

Q.1 i. Complete closure of coronal suture at which age? **1**
    (a) 30-40   (b) 55-65   (c) 60-70   (d) 40-50

  ii. Who is the father of anthropometry? **1**
    (a) Sir francis galton   (b) Sir edmond locard
    (c) Sir calvin goddard   (d) Sir alphansoe bertillon

  iii. Anthropometry term derive from which greek term? **1**
    (a) Anthropos + metry   (b) Anthropo + metry
    (c) Anthros + pometry   (d) Anthro + metry

  iv. Which types of teeth are not present in human primary dentition? **1**
    (a) Molar   (b) Canine   (c) Incisor   (d) Pre Molar

  v. Frankfort's horizontal plan (FHP) is formed by joining. **1**
    (a) Porion and Orbitale   (b) Nasion and sella
    (c) Porion and sella   (d) Porion and Nasion

  vi. Cephalic index is used for determination of? **1**
    (a) Sex   (b) Race   (c) Height   (d) Stature

  vii. The applications of the face recognition are _____. **1**
    (a) Criminal investigation   (b) Surveillance
    (c) Tracking attendance   (d) All of these

  viii. _____ are the nodal points measured by the software for face recognition. **1**
    (a) Distance between the eyes
    (b) Width of the nose
    (c) Cheekbones, jaw line, chin
    (d) All of these

  ix. The first reconstruction of the face was carried out by- **1**
    (a) Wilheim His   (b) Welcke
    (c) Wilton Maria Krogmann   (d) Karen Taylor

  x. Superimposition require- **1**
    (a) Antemortem Photographs   (b) X-ray of Skeletal Skull
    (c) Both (a) and (b)   (d) None of these

Q.2 i. What do you mean by the term 'Forensic Anthropology'? **2**
  ii. Explain role of forensic anthropology in mass disaster cases. **3**
  iii. Discuss about determination of age from teeth. **5**
OR iv. Elaborate determination of age and sex from skull and pelvis respectively. **5**

Q.3 i. Define Somatoscopy. **2**
  ii. Write detail note on personal identification from living and dead. **8**
OR iii. What are the different somatoscopic techniques used for personal identification? Explain in detail. **8**

Q.4 i. Write a short note concept of Frankfurt Plane. **3**
  ii. Describe the landmarks present over the head and face used in somatometry. **7**
OR iii. Write a detailed note on instruments used in sometometric measurements. **7**

Q.5 i. What is the Bertillon System? **3**
  ii. Write details note Facial Reconstruction. **7**
OR iii. Give a note on the computer software used for facial approximation. **7**

Q.6   Attempt any two:
  i. Write a detailed note on the superimposition technique. **5**
  ii. What are the various landmark used in facial reconstruction? **5**
  iii. Differentiate between photographic and videographic superimposition. Discuss their advantages and disadvantages. **5**

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P.T.O.

Marking Scheme
Forensic Anthropology (T) - FS3CO14 (T)

Q.1 i)   d. 40-50   1
     ii) d. Sir alphansoe bertillon   1
     iii) a. Anthropo + metry   1
     iv) d.Pre- Molar   1
     v)   a. Porion and Orbitale   1
     vi) b. Race   1
     vii) d. All of the above   1
     viii) d.All of the above   1
     ix) a. Wilheim his   1
     x)   c.Both a and b   1

Q.2 i.   Definition of 'Forensic Anthropology'   2MM
     ii. role of forensic anthropology in mass disaster cases   3MM
          6 points   0.5 for marks

     iii. Determination of age from teeth.   5MM
          Teeth structure-   2 Marks
          General characteristics of age determination-   3 Marks
OR   iv. Determination of age and sex from skull, pelvis.   5MM
          General Characteristics - 2.5 MM Skull , 2.5 MM pelvis

Q.3 i.   Define Somatoscopy.   2MM
     ii. personal identification from living-   4Marks   8MM
          Dead-   4Marks
OR   iii. Name the different somatoscopic techniques used for personal   8MM
          identification. 8 point   1 Marks Each

Q.4 i.   concept of Frankfurt Plane   2 Marks   3MM
          Diagram   1 Marks
     ii.   landmarks present over the head –   3 Marks   7MM
          face used in Somatometry-   3 Marks
          Forensic application –   1 Marks
OR   iii. Note on instruments used in sometometric measurements.   7MM

5 instruments –   6 Marks
3 points Forensic application-   1 Marks

Q.5 i.   Note on Bertillon System-   3 Marks   3MM
     ii. Facial Reconstruction- introduction –   2 Marks   7MM
          Methods-   2 Marks
          Limitations-   2 Marks
          Forensic application-   1 Marks
OR   iii. Details about computer software used for facial approximation.-   7MM
          2 software –   3.5 Marks
          Methods & application   3.5 Marks

Q.6
     i.   note on the superimposition technique.   5MM
           Introduction-   1 Marks
          Methods and principle-   2 Marks
          Limitations-   1 Marks
          Application-   1 Marks
     ii. 5 to 6 points various landmark used in facial reconstruction   5MM
     iii. Write forensic significances of facial reconstruction – 2.5 Marks   5MM
          tissue depth markers –   2.5 Marks

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