

HAND AND MICROSURGERY
THEORY PAPER**Time : 3 hours****Max. Marks : 100****Attempt all questions in order.**
Each question carries 10 marks.**Write short notes on:**

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| 1. | a) Principles of Internal Splinting.
b) Labeled diagram of sagittal section of nail.
c) CAM effect and its significance in hand. | 3+3+4 |
| 2. | a) Ulnar nerve paradox.
b) Modified Paneva-Holevich procedure. | 4+6 |
| 3. | Discuss surgical anatomy of free fibula osteo-cutaneous flap, steps in elevation and its clinical uses in upper limb reconstruction. | 3+5+2 |
| 4. | a) Principles of tendon transfer in peripheral nerve palsy.
b) Enumerate motors used, pulley and distal attachments in various transfers for intrinsic replacement in median nerve paralysis to restore thumb opposition. | 4+6 |
| 5. | a) Position of immobilization for an acute burn hand.
b) Pathogenesis of post-burn claw hand deformity. | 4+6 |
| 6. | a) Levels of thumb amputation.
b) Describe second toe transplantation procedure for thumb amputation. | 4+6 |
| 7. | a) Techniques of preservation of split thickness skin grafts.
b) The crank-handle effect.
c) Allen test. | 4+3+3 |
| 8. | a) Enumerate sites of entrapment of median nerve.
b) Clinical features and management of carpal tunnel syndrome. | 4+6 |
| 9. | Describe Wassel's classification for thumb polydactyly and discuss the management for type 4 deformity. | 4+6 |
| 10. | a) Coupling devices in vascular anastomosis.
b) Check-rein ligaments.
c) Levels of evidence in scientific studies. | 3+3+4 |
