

# BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT

## **PROSTHETIC & ORTHOTIC TECH.**

(Under DRME, Govt. of Punjab)

QUESTION BOOKLET NO.

IMPRESSION OF THE CANDIDATE

OMR ANSWER SHEET NO.

ROLL NO:

FULL SIGNATURE OF THE CANDIDATE

FULL SIGNATURE OF THE INVIGILATOR

FULL SIGNATURE OF THE OBSERVER

**Time Allowed: 1.00 Hours (11.00 AM to 12.00 noon)**

**Maximum Marks: 50**

1. Use **BLACK FINE TIP BALL PEN** only. Use of pencil is not allowed.
  2. Write your Roll number on the OMR answer-sheet and also on the question-booklet only in the space provided for the purpose and at no other place in the question booklets and Answer-sheet
  3. Enter the Question Booklet Set and Number on the OMR Answer-sheet and also darken the corresponding bubbles with **BLACK FINE TIP BALL PEN**.
  4. Do not put any marks anywhere in the Question booklet /on the OMR Answer-sheet.
  5. **There are 50 objective type questions in all of 1 Mark each.** Before attempting the questions, check that the Question-booklet is complete. In case any question/part of question or page is missing, inform the Centre Superintendent within 5 minutes of the start of the examination. After that no claim will be entertained.
  6. **Each question is followed by four alternative responses listed as A), B), C) and D) out of which only one is correct / most correct. In case, all the ovals are left blank, there will be deduction of marks @ 0.25 mark for each such unattempted question. Fifth oval 'E' (introduced for security purpose) is to be darkened in case you do not want to attempt the question to avoid negative marking.**
  7. To open the question booklet, remove the seal gently when asked to do so. Handover the OMR Answer-sheet to the officer on duty on the completion of the time before you leave the examination hall.
  8. **The candidates are permitted to carry his/her question booklet after completion of the examination but OMR Sheets are compulsory required to be deposited with the invigilator.**
  9. A candidate who create disturbance of any kind or changes his/her seat or is found in possession of any paper possibility of any assistance to him/her or unfair means will be expelled from the examination by the Centre superintendent/Observer, whose decision shall be final. ("Expulsion" for this purpose would mean cancellation of the entire examination of the candidate).
  10. **THE CANDIDATES ARE NOT PERMITTED TO CARRY ANY TELECOMMUNICATION EQUIPMENT SUCH AS WATCH, CELLULAR PHONE, WIRELESS SET, SCANNER ETC. INSIDE THE EXAMINATION HALL.**
  11. For rough work, use only the blank space of the Question booklet.
  12. The candidates will not be allowed to leave the examination hall during the examination.
  13. Borrowing any material is not allowed.
  14. The answer-sheet is designed for Computer evaluation. If the instructions are not followed properly, the candidate alone shall be responsible for the resultant loss.
  15. Smoking/Refreshment shall not be allowed in the Entrance Test Centre/Hall.
  16. Male candidates shall affix their Left Thumb Impression (LTI) while Female candidates shall affix Right Thumb Impression (RTI) at the prescribed place on the OMR answer sheet, Question Booklet and attendance sheet. The Centre superintendent shall also obtain and retain it for record.
  17. The candidate must fill both the question booklet number and OMR answer sheet number on the attendance sheet.
  18. No candidate shall be allowed to leave the centre before **12.00 noon**.
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1. Carpal Tunnel syndrome is due to entrapment of which nerve?
  - a. Median nerve
  - b. Ulnar nerve
  - c. Radial nerve
  - d. All of the above
  
2. Vitamin D deficiency leads to:
  - a. Night blindness
  - b. CP
  - c. Rickets
  - d. Brain fever
  
3. Which is the example of ball and socket?
  - a. Hip joint
  - b. Knee joint
  - c. Ankle joint
  - d. Elbow joint
  
4. Foot Drop is due to which disease?
  - a. Polio
  - b. Leprosy
  - c. CP
  - d. All of the above
  
5. The artificial limb has been named as capital of which State in India?
  - a. Uttar Pradesh
  - b. Bihar
  - c. Rajasthan
  - d. Maharashtra
  
6. Name the wood which is most suitable for fabrication of prosthesis?
  - a. Mango
  - b. Neem
  - c. Peepal
  - d. Teak
  
7. Brail is used by whom?
  - a. Mental retardation
  - b. Locomotor handicapped
  - c. Speech and hearing handicapped
  - d. Visually handicapped
  
8. What are the facilities available to handicapped?
  - a. Concession in rail journey
  - b. Reservation in service
  - c. Free aids/appliances to poor disabled
  - d. All of the above
  
9. What is being given in a case of wrist drop?
  - a. Cock-up splint
  - b. Abductor splint
  - c. Opponens splint
  - d. Knuckle duster hand splint
  
10. Write full name of SACH Foot?
  - a. Solid ankle cushion heel
  - b. Solid ankle cavus heel
  - c. Straight ankle cushion heel
  - d. None of above
  
11. Manus varus is seen in which joint?
  - a. Wrist
  - b. Elbow
  - c. Hip
  - d. Knee
  
12. Denis Brown splint is given in which case?
  - a. CTEV
  - b. CDH
  - c. Vertical talus
  - d. Genu vara
  
13. What is Mallet finger?
  - a. Avulsion of long extensor tendon at DIP Joint of finger
  - b. Avulsion of long flexor tendon at DIP joint of finger
  - c. Both above
  - d. None of the above
  
14. What is the full name of ADL?
  - a. Activities of daily life
  - b. Adaptation in daily life
  - c. Action of daily life
  - d. All of the above
  
15. The position of "Policeman receiving a tip" indicates involvement of which part of brachial plexus?
  - a. C5,6
  - b. C8T1
  - c. C5,6,7,8andT1
  - d. All of the above

16. Anterior Drawer's test is performed to assess damage of which structure in knee joint?
- Median semilunar cartilage
  - Lateral semilunar cartilage
  - Anterior cruciate ligament
  - Posterior cruciate ligament
17. After a peripheral nerve lesion with axonotmesis nerve growth usually occurs at a speed of:
- 3–5mm/day
  - 1–3mm/day
  - 0.1–0.3mm/day
  - More than 5 mm/day
18. A 43-year-old female hairdresser complains of right shoulder and arm pain lasting for 6 weeks. The pain is located in the anterior and lateral shoulder region, radiating laterally toward the elbow. She complains of bilateral arm heaviness while at work. She experiences also a vague feeling of numbness in her right hand, worse during the night. The pain occurs primarily while working and is relieved when the patient is recumbent. The most likely diagnosis is:
- Impingement syndrome of the shoulder
  - Adhesive capsulitis of the shoulder
  - A suprascapular nerve lesion
  - A thoracic outlet syndrome
19. All of the following measurement tools are used in the assessment of pain except one:
- Pressure algometry
  - Visual analogue scale
  - Somato sensory evoked potentials
  - Verbal scale/questionnaire
20. What type of plastic is plastizote
- Low temp thermoplastic
  - High temp thermoplastic
  - Closed cell polyethylene foam
  - Polypropylene
21. Your patient has leg length difference of 1/10 of inch, L shorter than R. What would be appropriate
- Elevate the sole on the L
  - Elevate the heel on L
  - Wedge the heel laterally
  - Wedge the heel medially
22. which is not a clinical application of creep?
- spasticity
  - hypotonia
  - joint contracture
  - elongatin
23. When weight is major concern in designing prosthetics and orthotics \_\_\_\_\_ is used:
- steel
  - aluminium
  - titanium
  - plastic
24. Which splint is used for brachial plexus injury?
- Volkman
  - turnbuckle
  - cock - up
  - aeroplane
25. Which of the following statements concerning the Barthel index is incorrect?
- It is used for comparison between services
  - It has predictive value
  - It measures cognitive function
  - It assesses 10 aspects of daily life
26. An active, 77-year-old woman suffers from urinary incontinence following a stroke. She does not have a urinary infection and her post-micturition residual volume is not significant. The skin is moderately red. What is your first measure to take or prescribe?
- Oxybutin in 5mg three times a day
  - Intermittent catheterization
  - Programmed toileting with a fluid balance chart
  - A permanent indwelling catheter

39. What is Housemaid's knee?

- a. Pre- patellar bursitis
- b. Infra patellar bursitis
- c. Sub sartorial bursitis
- d. All of the above

40. Which of the following drug used during pregnancy causes congenital Limb deficiency.

- a. Thalidomide
- b. PCM
- c. Vitamin D
- d. Calcium

41. Which of the following disability is maximum in India?

- a. Locomotor
- b. Visually handicapped
- c. Hearing
- d. Mental retardation

42. What is being prescribed for Pes planus?

- a. TCE Heel with medial heel wedge
- b. Valgoidin sole
- c. Exercise
- d. All of the above

43. In which year PWD-Act was made?

- a. 1994
- b. 1995
- c. 1996
- d. 1997

44. Which brace is given to stop movements of cervical spine?

- a. Cervical collar
- b. Corrective collar
- c. SOMI brace
- d. Taylor's brace

45. The partial absence of limb is known as:

- a. meromeria
- b. amelia
- c. phocomelia
- d. syringomyelia

46. Mildest form of spina bifida is:

- a. Spina bifida occulta
- b. Spina bifida cystic
- c. Myelomeningocele
- d. None of the above

47. Anterior cruciate ligament can be best treated by:

- a. Lenox Hill Derotation knee brace
- b. Rehabilitation knee orthoses
- c. Swedish knee cage
- d. Knee sleeves

48. Thomas heel is given in cases of

- a. Equines foot
- b. Cavus foot
- c. Flat foot
- d. CTEV

49. Fore quarter amputation includes:

- a. Humeral neck
- b. Glenohumeral
- c. inter scapulothoracic
- d. None of the above

50. Indication of craig- scott orthosis is:

- a. Poliomyelitis
- b. Cerebral palsy
- c. Paraplegia
- d. Myopathy

27. The pathophysiological effect of botulinum toxin type A in reducing spasticity is mediated through:
- Non-reversible blockade of acetylcholinesterase activity
  - Decreased calcium ion uptake by the pre synaptic motor nerve
  - Decreased acetylcholine release from the pre synaptic nerve terminal
  - Degradation of muscle endplate acetylcholine receptors
28. In a child with a slipped capital femoral epiphysis only one of the following items is incorrect:
- The pain may be referred to the knee
  - The child is walking with an internally rotated leg
  - Occasionally, the condition is initially only manifested by knee pain
  - It should always be considered when a young athlete between the ages of 8 to 12 years presents with knee discomfort
29. Assessment in rehabilitation focuses on all of the following major areas except:
- Physical capabilities and activities of daily living
  - Social behavior
  - Personality and psychology
  - Epidemiology
30. During an electro physiological examination, somato sensory evoked potentials evaluate the integrity of the:
- Tractus spino thalamicus lateralis
  - Tractus spino thalamicus ventralis
  - Fasciculus gracilis and fasciculus cuneatus
  - Tractus cortico spinalis lateralis
31. In Parkinson's disease, physical therapy should not include:
- Relaxation techniques
  - Passive stretching
  - Control of spasticity
  - Functional activity training
32. In Sever's disease which tarsal bone is involved?
- Calcaneum
  - Talus
  - Cuboid
  - None of the above
33. What percentage of disability is given for everyone inch vertical height reduction?
- 4%
  - 8%
  - 12%
  - 16%
34. Milkman Syndrome, triradiate pelvis, fractures and biconcave vertebra are seen in which of the following disease?
- Osteomalacia
  - AS
  - Rh Arthritis
  - All of the above
35. PTB Brace is advised in case of
- BK amputee
  - Plantar ulcer
  - Syme amp
  - All of the above
36. de-Quervain disease involves:
- Tendons of ABDPL and EPB
  - ECRL
  - ECU
  - EPL
37. What is the full name of CAD?
- Computer aided design
  - Computer assisted design
  - Computer and design
  - Computer and diagram
38. Which appliances is given in case of foot drop?
- AFO
  - PTB prosthesis
  - HKFO
  - Taylor's Brace