



VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University under section 3 of the UGC Act 1956)

Physiotherapy

Instructions:

1. Answer all the questions.
2. Read each question carefully and write the correct answer for each question chosen by you with black/blue pen in the answer sheet provided.
3. No negative marks for wrong answers.
4. Return the question paper along with the answer sheet.

Time: 90 Minutes

Marks: 70

Venue: -----

Part B

[35X1=35]

1. In terms of magnetic properties, oxygen belongs to
 - a. Non-magnetic material
 - b. Ferromagnetic material
 - c. Paramagnetic material
 - d. Diamagnetic material
2. DNA parts which can switch their position are
 - a. Cistron
 - b. Transposons
 - c. Introns
 - d. Exons
3. Which immunoglobulin is present in mother's milk?
 - a. IgA
 - b. IgD
 - c. IgG
 - d. IgE



VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University under section 3 of the UGC Act 1956)

4. Which of the following property of a cardiac cell to initiate and fire an action potential on its own without external stimulation?
 - a. Selectively
 - b. Spontaneity
 - c. Automaticity
 - d. Conductance
5. Proportion of inorganic to organic matter in the bones is
 - a. 3:1
 - b. 2:1
 - c. 1:1
 - d. 4:1
6. The chest X-ray is mostly taken on?
 - a. AP view
 - b. Oblique view
 - c. Lateral view
 - d. PA view
7. Lemniscalsensory system transmits all except
 - a. Touch
 - b. Temperature
 - c. Vibration
 - d. Two point discrimination
8. Triple arthrodesis is done in following except for
 - a. Talocalcaneal
 - b. Talonavicular
 - c. Calcaneocuboid
 - d. Tibiofibular
9. An 18 years old woman is referred to your office after branch retinal artery occlusions occurred in each eye several months apart. Her examination reveals moderate hearing loss in the right ear in addition to visual field cuts in each eye. A brain MRI reveals multiple small cortical strokes in the frontal and left temporal parietal lobe. What is the diagnosis?
 - a. Multiple sclerosis
 - b. Acute disseminated encephalomyelitis
 - c. Susac syndrome
 - d. Conversion reaction
10. What is the second most common type of degenerative dementia?
 - a. Alzheimer's disease
 - b. Dementia with lewy bodies
 - c. Frontotemporal dementia
 - d. Vascular dementia



VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University under section 3 of the UGC Act 1956)

11. What is the culprit gene in Hallervorden-spatz syndrome?
 - a. PANK1
 - b. PANK2
 - c. STANG1
 - d. STANG2
12. Sprengel's shoulder is
 - a. Undescended/elevated scapula
 - b. Undescended neck of scapula
 - c. Exostosis scapula
 - d. Exostosis humerus
13. Talipes equinovarus is
 - a. Equinus, inversion, abduction
 - b. Equinus, inversion, adduction
 - c. Equinus, eversion, abduction
 - d. Equinus, eversion, adduction
14. Wormian bones are not noted in
 - a. Fibrous dysplasia
 - b. Osteogenesis imperfecta
 - c. Cretinism
 - d. Rickets
15. Sabre tibia seen in
 - a. Tuberculous osteomyelitis
 - b. Syphilitic osteitis
 - c. Rickets
 - d. Paget's disease
16. Which measurement is used to determine armrest height of a wheelchair?
 - a. Femur to radial head distance
 - b. Seat to ASIS
 - c. Elbow to acromion
 - d. Seat to olecranon
17. One MET is how much ml of oxygen /kg/min in male.
 - a. 2.5
 - b. 3.5
 - c. 4.5
 - d. 1.5



VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University under section 3 of the UGC Act 1956)

18. A patient complains of knee pain after falling on her flexed knee. Physical examination shows a positive 'sag sign'. Which ligament is injured?
- MCL
 - LCL
 - ACL
 - PCL
19. Warm sitz bath is useful in the treatment of
- Post partum pain
 - Anorectal fistula
 - Hemorrhoids
 - All the above
20. Which type of muscle contraction produces greater force?
- Isotonic
 - Isometric
 - Concentric
 - Eccentric
21. The benefits of aerobic training are all except
- Decreases the myocardial oxygen demand for given load
 - Decreases peripheral resistance
 - Increase stroke volume
 - Increase the maximum heart rate
22. Muscles of mastication is supplied by
- Glossopharyngeal nerve
 - Facial nerve
 - Vagus nerve
 - Trigeminal nerve
23. A physical therapist is trying to determine which special test to use for an examination and is researching the statistical values of each. What is the important statistical attribute a special test have to effectively limit Type 1 errors?
- Sensitivity
 - Specificity
 - Positive likelihood ratio
 - Negative likelihood ratio



VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University under section 3 of the UGC Act 1956)

24. A patient presents to the clinic with coronary artery disease. Which of the following risk factors is most important to educate the patient about?
- Age
 - Gender
 - Obesity
 - Physical inactivity
25. According to Maslow's Hierarchy of needs, which of the following is the uppermost level of self-actualization?
- Affiliative needs
 - Physiological needs
 - Esteem needs
 - Psychosocial needs
26. A patient is having difficulty maintaining his balance during static standing, especially in crowded environments. Which of the following balance strategies is the most active during this activity?
- Ankle
 - Hip
 - Suspensory
 - Stepping
27. In the daily SOAP note documentation of a physical therapy treatment session, which of the following categories will contain the patients complaints?
- Subjective
 - Objective
 - Assessment
 - Plan
28. Nerve conduction findings in patients with critical illness polyneuropathy include
- Conduction block
 - Reduced sensory and motor evoked amplitudes
 - Temporal dispersions
 - Significant decrement to repetitive stimulation
29. The primary means of heat transfer with the use of hydrotherapy is
- Conduction
 - Convection
 - Conversion
 - Radiation



VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University under section 3 of the UGC Act 1956)

30. What is the expected outcome of effective exercise training in a pulmonary rehabilitation program for patients with COPD?
- Reduced need for supplemental oxygen
 - Reduced dyspnea
 - Improved radiologic status of the lung fields
 - Slowest loss of forced expiratory volume
31. What is the contraindication for superficial heat?
- Joint replacement
 - Hematoma
 - Superficial thrombophlebitis
 - Sensory deficit
32. Which exercise has the greatest effect on bone formation?
- Weight lifting
 - Cycling
 - Swimming
 - Tai chi stretching
33. The functional independence measure (FIM) assesses
- Participation restrictions
 - Prognosis
 - Impairment
 - Activity limitations
34. What is the most common cause of diskitis?
- Pseudomonas
 - Mycobacterium
 - Streptococcus
 - Staphylococcus
35. A patient reports experiencing pain at the right inferior border of the scapula. The physical therapist suspects the origin is referred pain. Which internal organ would most likely refer pain to this area?
- Stomach
 - Kidney
 - Gall bladder
 - Ureter

