

Questions and Answer key of the written examination held on 28.02.2016 for the post of Physiotherapist in Regional Cancer Centre, Thiruvananthapuram

Directions (1 to 60) : Choose the best alternatives

1. Clergymen's Knee is:
 - a. Pre patellar bursitis
 - b. **Infra patellar bursitis**
 - c. Supra patellar bursitis
 - d. None of the above
2. First sternocostal joint is an example for:
 - a. Syndesmosis
 - b. **Synchondrosis**
 - c. Planne
 - d. Pivot
3. Opera glass deformity is seen in:
 - a. Ulnar nerve palsy
 - b. Radial nerve palsy
 - c. Median nerve palsy
 - d. **Rheumatoid arthritis**
4. Maximum scores for Barthel Index is:
 - a. 26
 - b. **100**
 - c. 56
 - d. 86
5. The half value distance of 3 MHz Ultrasound is:
 - a. 4 cm
 - b. **2.5 cm**
 - c. 4 mm
 - d. 2.5 mm
6. Snell's law is related to:
 - a. Absorption
 - b. Reflection
 - c. **Refraction**
 - d. All of the above
7. Kienboch's disease is the avascular necrosis of:
 - a. Patella
 - b. Calcaneum
 - c. **Lunate**
 - d. Tibial tuberosity
8. For maximum absorption of rays during therapy purposes, the angle of incidence should be:
 - a. 30 degree
 - b. 45 degree
 - c. 90 degree
 - d. **Zero degree**
9. Which of the following is not a part of posterior ligamentum complex?
 - a. Supra spinous ligament
 - b. Inter spinous ligament
 - c. Ligamentum flavum
 - d. **Posterior longitudinal ligament**
10. Ollier's disease is:
 - a. **Enchondromatosis**
 - b. Osteopetrosis
 - c. Fibrous dysplasia
 - d. Neurofibromatosis

11. Aesthesiometer is used to check:
- a. Vibration
 - b. Barognosis
 - c. Two point discrimination**
 - d. Asthenia
12. The depth of penetration of ultraviolet rays is maximum upto:
- a. 2 cm
 - b. 4 cm
 - c. 2 mm**
 - d. 4 mm
13. Barton's fracture is at:
- a. Radius**
 - b. First metacarpal bone
 - c. Ulna
 - d. Scaphoid
14. Action of brachioradialis muscle in upper limb is an example for:
- a. First class lever
 - b. Second class lever**
 - c. Third class lever
 - d. None of the above
15. Increased antero posterior diameter of chest is:
- a. Pigeon chest
 - b. Funnel chest
 - c. Barrel chest**
 - d. None of the above
16. Suitable body position for a post operative hypoxic patient is:
- a. 30 degree head down position
 - b. Supine with head and body aligned in neutral
 - c. 30 degree inclined upward
 - d. 60 degree inclined upward**
17. Fairbanks triangle is seen in:
- a. Spondylolisthesis
 - b. Congenital coxa vara**
 - c. Multiple sclerosis
 - d. Muscular dystrophy
18. Total degree of pelvic tilt in a complete gait cycle is:
- a. 3
 - b. 6
 - c. 4
 - d. 8**
19. Regarding lung volumes and capacities, which of the following is true:
- a. $TLC = VC + RV$
 - b. $TLC = IC + FRC$
 - c. $TLC = TV + IRV + ERV + RV$
 - d. All of the above**
20. Rocker bottom foot is:
- a. Pes planus
 - b. Vertical talus**
 - c. Pes cavus
 - d. Pes varus

21. Microwaves are strongly absorbed by:
a. Fat **b. Water** c. Ligament d. Muscle
22. CMC joint of thumb have:
a. 5 degree of freedom b. 4 degree of freedom
c. 3 degree of freedom **d. 2 degree of freedom**
23. Which myotome controls ankle plantar flexion?
a. S1-S2 b. S3-S4 c. L4 d. L5
24. Ideal doorway width for wheelchair users is:
a. 32 inch b. 42 inch c. 48 inch d. 52 inch
25. Onion peel appearance of bone on X-ray is seen in:
a. Chondroblastoma b. Chondro sarcoma
c. Ewing's sarcoma d. Histio sarcoma
26. Angle of Wiberg is at:
a. Hip joint b. Knee joint c. Shoulder joint d. Elbow joint
27. In erect standing position, the line of gravity (LOG) falls:
a. Through the axis of hip joint b. Slightly anterior to hip joint.
c. Slightly posterior to hip joint d. None of the above
28. The proximal tibiofibular joint is an example for:
a. Plane type b. Syndesmosis type
c. Synchrondrosis type d. Symphysis
29. The frequency range of high TENS is:
a. 750 – 950 Hz b. 500 – 750 Hz c. 1 – 5 Hz **d. 100 – 150 Hz**
30. Irreversible distortion of the airway is seen in:
a. Bronchitis b. Pneumonia c. Bronchiactasis **d. Emphysema**
31. Blount's disease is:
a. Genu varum b. Genu valgum
c. Tibia varum d. Genurecurvatum

32. Respiratory alkalosis, alveolar hyperventilator and normal CO₂ tension are the features of:
- a. **Type I respiratory failure**
 - b. Type II respiratory failure
 - c. Both a and b
 - d. None of the above
33. Which of the following is the preferred treatment for meralgia paresthetica?
- a. TENS in the affected area of thigh.
 - b. LASER followed by TENS in the affected area of thigh.
 - c. IFT in the affected area of thigh.
 - d. **UST in the anterior superior iliac spine area**
34. The wavelength of Ruby laser is:
- a. 632.8 nm
 - b. **694.3 nm**
 - c. 684.3 nm
 - d. 653.4 nm
35. Bouchard's nodes are seen at:
- a. Distal interphalangeal joints
 - b. **Proximal interphalangeal joints**
 - c. Metacarpophalangeal joints
 - d. Intercarpal joints
36. Skeleton maturity can be checked by:
- a. Tinnel's sign
 - b. Galazei sign
 - c. **Risser sign**
 - d. Terrier sign
37. Faradic current is:
- a. Long duration current
 - b. Used for denervated muscle
 - c. Both (A) and b
 - d. **None of the above**
38. Righting reflex is at:
- a. Spinal level
 - b. Cortical level
 - c. **Midbrain level**
 - d. Cerebellar level
39. The normal range of limits of stability (LOS) in mediolateral direction is:
- a. 10 degree
 - b. 12 degree
 - c. **16 degree**
 - d. 20 degree
40. Recommended position in bed for a below knee amputee:
- a. Supine with pillow under the knee
 - b. Supine with pillow under the thigh and knees
 - c. Supine with knees extended
 - d. **Prone lying**

52. Choke syndrome is a complication of:
- a. **Amputation**
 - b. Dysphagia
 - c. Myocardial infarction
 - d. Multiple sclerosis
53. Froment's test is done for:
- a. **Ulnar nerve palsy**
 - b. Median nerve palsy
 - c. Radial nerve palsy
 - d. Axillary nerve palsy
54. Raynaud's disease is associated with:
- a. Exposure to cold
 - b. Emotional stress
 - c. Thoracic outlet syndrome
 - d. **All of the above**
55. Final 15 degrees of knee extension is done by:
- a. Vastus lateralis
 - b. **Vastus medialis**
 - c. Vastus intermedius
 - d. Satorius
56. Tailor's muscle is:
- a. Rectus femoris.
 - b. Biceps femoris
 - c. **Satorius**
 - d. Adductor longus.
57. Terminal degrees of wrist extension takes place at:
- a. Midcarpal joint.
 - b. **Radiocarpal joint**
 - c. Ulnar carpal joint.
 - d. Radioulnar joint
58. Apparent length of lower limb is measured between:
- a. ASIS and medial malleolus
 - b. ASIS and lateral malleolus
 - c. **Umbilicus and medial malleolus**
 - d. Umbilicus and lateral malleolus
59. In tarsal tunnel syndrome, which nerve is involved?
- a. Common peroneal nerve
 - b. Anterior tibial nerve
 - c. **Posterior tibial nerve**
 - d. Femoral nerve
60. The National Trust Act was implemented on:
- a. 1998
 - b. **1999**
 - c. 1996
 - d. 2001

Directions (Qn. 61 to 64) : Pickout the nearest correct meaning or synonym of the words given below.

61. HARMONY
- a. cemetery
 - b. ceremony
 - c. **symmetry**
 - d. hierarchy

62. ADVICE
a. council **b. counsel** c. practice d. proposal
63. FACULTY
a. privilege b. desire c. branch **d. ability**
64. ANNEX
a. add b. low c. copy d. initial

Directions (Qn. 65 to 67) : Choose the option which contains a pair of words related to each other in the same way as the pair given in capital letters.

65. TORCH : LIBERTY
a. Laws : Courts **b. Scales : Justice**
c. Balance : Equity d. Weights : Measure
66. MONEY: BANK
a. Fear : Tremble **b. Arrows : Quiver**
c. Sound : Music d. Coin : Mint
67. KING: CROWN
a. **Priest : Mitre** b. Soldier : Gun
c. Teacher : Chalk d. Sculptor : Chisel

Directions (Qn. 68 to 70) : In the given sentences, a part of the sentences is underlined. Beneath each sentences, four different ways of phrasing the underlined part are indicated. Choose the best alternative.

68. We want the teacher to be him who has the best rapport with the students.
a. **We want the teacher to be he** b. We want him to be the teacher
c. We desire the teacher to be him d. We anticipate the teacher to be him
69. Anyone interested in the use of computer can learn much if you have access to a state-of-the-art microcomputer.
a. **if he has access to** b. if access is available to
c. by access to d. from access to
70. Today this is a totally different world than we have seen in the last decade.
a. than what we seen b. then we have seen
c. from what we seen **d. from what we have seen**

Directions (Qn. 71 and 72) : In each of the following questions, there is a certain relationship between two given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same relation with this word as the words of the given pair bear. Choose the correct alternative.

71. Genuine : Authentic :: Mirage: ?
a. Image b. Transpiration c. Reflection **d. Illusion**
72. Bread : Yeast :: Curd: ?
a. Fungi **b. Bacteria** c. Germs d. Virus

Directions (Qn. 73 and 74) : In each of the following questions, one term in the number series is wrong. Find out the wrong term.

73. 380, 188, 92, 48, 20, 8, 2
a. 188 b. 92 **c. 48** d. 20
74. 56, 72, 90, 110, 132, 150
a. 72 b. 90 c. 110 **d. 150**

Directions (Qn. 75 to 80) : Choose the best alternatives.

75. In a certain code, '256' means 'you are good'; '637' means 'we are bad' and '358' means 'good and bad'. Which of the following represents 'and' in that code ?
a. 2 b. 5 **c. 8** d. 3
76. E is the son of A. D is the son of B. E is married to C. C is B's daughter. How is D related to E?
a. Brother b. Uncle c. Father-in-law **d. Brother-in-law**
77. Five girls are sitting in a row. Rashi is not adjacent to Sulekha or Abha. Anuradha is not adjacent to Sulekha. Rashi is adjacent to Monika. Monika is at the middle in the row. Then, Anuradha is adjacent to whom out of the following ?
a. Rashi b. Sulekha c. Abha d. Monika
78. In a class, ratio of passed to failed students in an exam is 5:1. Amit is 16th from the top and Sujit, who is three ranks below Amit, is 22nd from the bottom among the passed students. If all students in the class had appeared for the exam, what is the strength of the class?
a. 40 b. 32 **c. 48** d. Data Inadequate

79. The sum of the ages of a son and father is 48 years. After 4 years, the age of the father will be 3 times that of the son. What is the age of the son?
- a. 6 b. 18 c. **10** d. None of these
80. Shyam starts walking towards East and after walking 20m, turns southward and walks 10 m and then he turns to his right and walks 30m. In which direction is he now with respect to the starting point?
- a. South b. West c. South-East d. **South-West**

Directions (Qn. 81 and 82): In each of the following questions, four groups of letters are given, Three of them are alike in a certain way while one is different. Select the one which is different.

81. a. **STUA** b. RQPA c. MLKA d. HGFA
82. a. RSXY b. **NOUV** c. MNST d. DEJK

Directions (Qn. 83 to 100) : Choose the best alternatives.

83. A thief steals a car at 1p.m. and drives at 20 km/hr. The theft is discovered at 2 p.m. If the owner sets of another car at 30 km/hr, then he will overtake the thief at:
- a. 2.40 pm b. 3.20 pm c. **4.00 pm** d. 4.20 pm
84. If 15 men and 10 boys can do in one day as much work as 12 men and 20 boys. How much should a man be paid a day if a boy is to get Rs. 10/- a day ?
- a. Rs. 26.77 b. **Rs. 33.33** c. Rs. 45 d. None of these
85. A farmer notices that the area of his farm in sq.mts is equal to 2 times the square of the number of tractors he owns. If one tractor is stolen he has to sell 62 sq.mts of the farm so as to maintain the relationship. Find the total number of tractors he has.
- a. 14 b. 15 c. **16** d. 17
86. Performing 'Sati' by women was declared illegal during the Governor Generalship of :
- a. **William Bentinck** b. Dalhousie
c. Canning d. Cornwallis
87. Who was the first Indian to win an individual medal in Olympics?
- a. Milkha Singh b. P. T. Usha
c. Karnam Malleshwari d. **K. D. Jadhav**
88. How many countries share land boundaries with India?
- a. Five b. Six c. **Seven** d. Nine

89. An ordinance promulgated by the President of India
- a. Has an indefinite life
 - b. Effective only if the Lok Sabha is dissolved
 - c. **Must be laid before the Parliament when it meets**
 - d. is a parallel power of legislation available to the president even when the Parliament is in session
90. Council of ministers has to resign if it loses the confidence of :
- a. Parliament
 - b. Either House of Parliament
 - c. Rajya sabha
 - d. **Lok Sabha**
91. Which of the following was awarded Noble Peace for three times?
- a. Human Rights Council
 - b. World Bank
 - c. **International Committee of the Red Cross**
 - d. UN peacekeeping forces
92. Which of the countries represent letter 'C' in the category known as BRIC Countries?
- a. Canada
 - b. Chile
 - c. Cuba
 - d. **China**
93. A solar eclipse is caused when the
- a. Sun comes between the earth and the moon
 - b. moon comes between the sun and the earth
 - c. **earth comes between the sun and the moon**
 - d. none of these
94. Chinese currency Yuan was in news during the last week of December 2015. Yuan is also known as:
- a. **Renminbi**
 - b. Abbasi
 - c. Toman
 - d. Pataca
95. The rate at which banks borrow rupees from RBI is
- a. **Repo rate**
 - b. Reverse Repo rate
 - c. Bank rate
 - d. Simple interest rate
96. Who started the first newspaper in India?
- a. Dadabhai Naoroji
 - b. Sir Syed Ahemed Khan
 - c. **James Hickey**
 - d. Raveendra Nath Tagore
97. The Olympic games are normally held at an interval of
- a. 2 years
 - b. 3years
 - c. **4 years**
 - d. 5 years

98. Which metal is used for generation of Nuclear Energy by Nuclear power plants?
a. Zinc b. Platinum c. **Uranium** d. Nickel
99. The country which has no income tax
a. Nepal b. Afganisthan c. China d. **United Arab Emirates**
100. Where is Harappa situated, according to the present map?
a. India b. Afganisthan c. **Pakistan** d. China