

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Physical Medicine and Rehabilitation Paper4
<b>Subject Name :</b>	DNB Physical Medicine and Rehabilitation Paper4
<b>Creation Date :</b>	2022-06-25 18:45:03
<b>Duration :</b>	180
<b>Share Answer Key With Delivery Engine :</b>	No
<b>Actual Answer Key :</b>	No

## DNB Physical Medicine and Rehabilitation Paper4

<b>Group Number :</b>	1
<b>Group Id :</b>	3271871176
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	180
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	100
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View
<b>Show Progress Bar? :</b>	No

## DNB Physical Medicine and Rehabilitation Paper4

<b>Section Id :</b>	3271871179
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**Section Number :** 1  
**Section type :** Offline  
**Mandatory or Optional :** Mandatory  
**Number of Questions to be attempted :** 10  
**Section Marks :** 100  
**Enable Mark as Answered Mark for Review and Clear Response :** Yes  
**Maximum Instruction Time :** 0  
**Sub-Section Number :** 1  
**Sub-Section Id :** 3271871183  
**Question Shuffling Allowed :** No

**Question Number : 1 Question Id : 32718710812 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Please write your answers in the answer booklet within the allotted pages as follows:-**

Question Number	Answer to be attempted within	Question Number	Answer to be attempted within
Q. 1	Page 1-5	Q. 6	Page 26-30
Q. 2	Page 6-10	Q. 7	Page 31-35
Q. 3	Page 11-15	Q. 8	Page 36-40
Q. 4	Page 16-20	Q. 9	Page 41-45
Q. 5	Page 21-25	Q. 10	Page 46-50

1. Describe the different types of electronic sensors used to evaluate and modify the human systems. Write about the possible areas/conditions seen in Rehabilitation where these can improve the patient assessment and outcome. [10]

**Question Number : 2 Question Id : 32718710813 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Write about the Accessible India Campaign and enumerate various targets fixed under this Campaign. [10]

**Question Number : 3 Question Id : 32718710814 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Write in detail the disability assessment guidelines as per the January 5, 2018 gazette of GOI for a person with hemophilia. [10]

**Question Number : 4 Question Id : 32718710815 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) Radiofrequency ablation for pain management. [5]
- b) Use of Repetitive Transcranial Magnetic Stimulation in Rehabilitation. [5]

**Question Number : 5 Question Id : 32718710816 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

- a) Ethical issues in stem cell therapy. [5]
- b) Cost effectiveness analysis in Rehabilitation Medicine. [5]

**Question Number : 6 Question Id : 32718710817 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Write about the rehabilitation aspects of management of a patient who has recovered from severe COVID infection and has to be weaned off the oxygen support. [10]

**Question Number : 7 Question Id : 32718710818 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Discuss the use of 3D printing in Rehabilitation Medicine and Surgery. [10]

**Question Number : 8 Question Id : 32718710819 Question Type : SUBJECTIVE Consider As**

**Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Write in brief about the National Ethical Guidelines for Biomedical Research Involving Children.  
[10]

**Question Number : 9 Question Id : 32718710820 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Write about the different ways in which Robotics and Artificial Intelligence has influenced the various areas of rehabilitation. [10]

**Question Number : 10 Question Id : 32718710821 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

When and how will you interpret the following statistical tools :

- a) Correlation Coefficient. [5]
- b) Odds Ratio. [5]