

**BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE- INDIA**  
**DOCTOR OF MEDICINE**  
**M. D. RADIO DIAGNOSIS :SUMMER- 2022**  
**SUBJECT : PAPER-I**

Day : Friday  
Date : 1/7/2022

**S-722-2022**

Time : 01:30 PM-04:30 PM  
Max. Marks : 100

---

**N. B. :**

- 1) **Q. No. 1 and Q. No. 2 are COMPULSORY.**
  - 2) Attempt any seven questions from **Q. No. 3 to Q. No. 10.**
  - 3) Figures to the right indicate **FULL** marks.
  - 4) Draw neat and labelled diagrams **WHEREVER** necessary.
  - 5) Your answer will be evaluated as a whole.
- 

- Q. 1** Discuss the role of imaging in the evaluation of patient with perianal discharge. Draw a labelled diagram of coronal section of the anorectal junction region, depicting the internal and external sphincter and portraying the types of anorectal fistulae. **(15)**
- Q. 2** With the help of diagrams describe a superconducting MRI magnet. List the various coils which can be used with their specific uses. **(15)**
- Q. 3** Compare stationary and rotating anode, with advantages of the latter. **(10)**
- Q. 4** Side effects of MRI contrast agents. **(10)**
- Q. 5** MRI anatomy of orbits. **(10)**
- Q. 6** Enumerate interactions of x-rays with matter. Describe any two of them. **(10)**
- Q. 7** Intensifying screens their principle and function. **(10)**
- Q. 8** Classification of intravenous contrast media. **(10)**
- Q. 9** What do you mean by ALARA principle? What are the steps you take in your daily practice to achieve this. **(10)**
- Q. 10** Conventional skull radiography. **(10)**

\* \* \* \* \*