Write short notes on:

1. Indications of treatment, staging system and chemotherapy schedule of choice in multiple myeloma.  
   3+4+3

2. Management of:  
   i. Extravasation of chemotherapeutic agent.  
   ii. Radiation induced haemorrhagic cystitis.  
   iii. Hypersensitivity reaction following administration of chemotherapeutic agent.  
   3+3+4

3. Indications, rationale and schedule of choice for metronomic chemotherapy in head and neck cancer along with expected response rates.  
   2+2+4+2

4. Indications, dose schedules and results of radiation therapy in osteogenic sarcoma.  
   2+4+4

5. Indications, dose schedules and results of chemoradiation therapy in gliomas.  
   2+5+3

6. Indications, dose schedules, technique and results of preoperative radiation therapy in Ca Rectum.  
   2+2+4+2

7. a) Rationale of combining chemotherapy with radiation in head and neck cancers.  
   b) How would you maintain nutrition of these patients during chemoradiation?  
   4+6

8. Classify reticulo-endothelial tumours and role of Radiotherapy in one of them.  
   5+5

9. a) Classify targeted therapy.  
   b) Axitinib.  
   5+5

10. What is gated radiation therapy and what are the malignancies where it has been found useful?  
   6+4

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