

# Rajiv Gandhi University of Health Sciences, Karnataka

## MBBS Phase – II (CBME) Degree Examination - 09-Dec-2024

**Time: Three Hours****Max. Marks: 100 Marks****PHARMACOLOGY – PAPER II (RS-4)****Q.P. CODE: 1029****(QP contains two pages)**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

**LONG ESSAYS****2 x 10 = 20 Marks**

1. a) Enlist different groups of Semisynthetic Penicillins giving one example for each  
b) Write the mechanism of action, uses and adverse effects of Amoxicillin
2. A 14 year old thinly built boy presented with polydipsia, polyphagia, polyuria, fatigue and weakness. His Fasting blood Sugar was 198 mg/dl, Post prandial blood sugar was 225 mg/dl, HbA1c was 9%. He is diagnosed to be suffering from Insulin dependent diabetes mellitus.  
a) Classify Insulin preparations based on their duration of action  
b) Discuss the Uses and adverse effects of Insulin

**SHORT ESSAYS****8 x 5 = 40 Marks**

3. Mechanism of action, advantages and adverse effects of Angiotensin converting enzyme inhibitors (ACE inhibitors)
4. Enumerate the advantages of Low molecular weight heparins
5. Compare and contrast Propylthiouracil and Carbimazole
6. A surgeon sustained a needle stick injury while operating, following which, the patient was tested for HIV which was reported as positive.  
a) Mention one drug regimen used for post exposure prophylaxis of HIV infection  
b) What is the time limit to initiate therapy?
7. Mechanism of action, uses and adverse effects of Methotrexate
8. A 65 year old patient admitted with Myocardial infarction complains of breathlessness, worse on lying down, cough with blood tinged sputum. The physician made a diagnosis of acute pulmonary oedema and decided to administer Furosemide. Describe the mechanism of action, uses and adverse effects Furosemide
9. Mechanism of action and uses of Digoxin
10. Adverse effects and contraindications of Oral contraceptive pills

**SHORT ANSWERS****10 x 3 = 30 Marks**

11. Name Three Oral Iron preparations
12. Mention the advantages of Liposomal Amphotericin B preparation
13. Write two uses of tetracyclines. Why tetracyclines are contraindicated in young children?
14. Mention two adverse effects of INH? Rationale of combining INH with pyridoxine?
15. Mention three uses of Chloroquine other than malaria.
16. Name three fat soluble vitamins.
17. Name two statins. Explain why is it beneficial to take statins in the Night?
18. Write Three advantages of Azithromycin over Erythromycin?
19. Rationale of using Nitrates in Cyanide poisoning
20. Mention three drugs used in Lepa reactions.

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## Multiple Choice Questions

**10 x 1 = 10 Marks**

- 21 i) A woman in the 28th week of pregnancy has developed pregnancy induced hypertension. Her blood pressure is 150/100 mm Hg. Select the most appropriate antihypertensive drug for her
- Furosemide
  - Methyldopa
  - Propranolol
  - Captopril
- 21 ii) Which of the following is an Inodilator used in Heart failure?
- Dobutamine
  - Milrinone
  - Ephedrine
  - Phenylephrine
- 21 iii) Diuretics are suitable antihypertensives in patients with coexisting
- Gout
  - Dyslipidemia
  - Isolated systolic Hypertension
  - Pregnancy induced Hypertension
- 21 iv) Which of the following is a non-cardiac use of Nifedipine
- Tocolytic
  - Glaucoma
  - Thyroid storm
  - Essential tremor
- 21 v) Drug used for delaying labour is
- Ergometrine
  - Ritodrine
  - Oxytocin
  - Propranolol
- 22 i) Bisphosphonates are indicated in the following condition
- Pemphigus
  - Epilepsy
  - Steven's Johnson syndrome
  - Osteoporosis
- 22 ii) Which of the following inhibits bacterial protein synthesis?
- Penicillins
  - Erythromycin
  - Cephalosporins
  - Vancomycin
- 22 iii) All the following antibiotics are obtained from fungi **EXCEPT**
- Penicillin
  - Cephalosporin
  - Griseofulvin
  - Colistin
- 22 iv) Which of the following Aminoglycoside is a first line anti-tubercular drug
- Kanamycin
  - Gentamicin
  - Streptomycin
  - Netilmycin
- 22 v) Anti-cancer drug that causes disruption of mitotic spindle
- 6-Mercaptopurine

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- B. Cisplatin
- C. Methotrexate
- D. Vincristine

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