

Exam Date & Time: 21-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmacology III [PHA-BP602T-S1]

Marks: 75

Duration: 180 mins.

I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

- 1) _____ produces extrapyramidal side effects. (1)
- | | | | |
|----------------|-----------------|-------------------|----------------|
| 1) Domperidone | 2) Promethazine | 3) Metoclopramide | 4) Ondansetron |
|----------------|-----------------|-------------------|----------------|
- 2) Sulfasalazine can be used as anti-diarrheal drug due to its (1)
- | | | | |
|-------------------------|---------------------|--------------------------------|-----------------------|
| 1) Antisecretory action | 2) Absorbant effect | 3) Property to reduce motility | 4) Psychogenic effect |
|-------------------------|---------------------|--------------------------------|-----------------------|
- 3) _____ receptor signaling is involved in gastrointestinal motility. (1)
- | | | | |
|---------|-------|-------|-------|
| 1) 5HT1 | 2) D1 | 3) H2 | 4) M3 |
|---------|-------|-------|-------|
- 4) Drug therapy recommended as first choice for *H. pylori* treatment include the following **EXCEPT**: (1)
- | | | | |
|----------------|-------------|-------------------|-----------------|
| 1) Amoxicillin | 2) Cefixime | 3) Clarithromycin | 4) Lansoprazole |
|----------------|-------------|-------------------|-----------------|
- 5) Select an antibiotic drug which act as bacterial cell wall synthesis inhibitor. (1)
- | | | | |
|---------------|-----------------|------------------|----------------|
| 1) Vancomycin | 2) Streptomycin | 3) Roxithromycin | 4) Cethromycin |
|---------------|-----------------|------------------|----------------|
- 6) Select a cephalosporin, which can cross blood brain barrier. (1)
- | | | | |
|---------------|----------------|---------------|--------------|
| 1) Cefotaxime | 2) Cephalothin | 3) Cephalexin | 4) Cefazolin |
|---------------|----------------|---------------|--------------|
- 7) _____ is the correct ratio for sulphamethoxazole and trimethoprim in combination, respectively. (1)
- | | | | |
|---------|--------|---------|---------|
| 1) 25:5 | 2) 1:5 | 3) 1:20 | 4) 1:10 |
|---------|--------|---------|---------|
- 8) The following is true of clofazimine **except**: (1)
- | | | | |
|-------------------------------------------------|-----------------------------------------------|---------------------------------------------|--------------------------------|
| 1) It has additional anti-inflammatory property | 2) It is cidal to <i>Mycobacterium leprae</i> | 3) It has a very long elimination half life | 4) It discolors skin and sweat |
|-------------------------------------------------|-----------------------------------------------|---------------------------------------------|--------------------------------|
- 9) _____ is an antileprotic drug (1)
- | | | | |
|-----------------------------|-----------------|------------------|---------------|
| 1) Diamino diphenyl sulfone | 2) Griseofulvin | 3) Metronidazole | 4) Gentamicin |
|-----------------------------|-----------------|------------------|---------------|
- 10) The drug used to treat fungal infection is (1)
- | | | | |
|-----------------|----------------|------------------|------------------|
| 1) Clotrimazole | 2) Albendazole | 3) Metronidazole | 4) Thiabendazole |
|-----------------|----------------|------------------|------------------|

- 11) Which one of the followings has immunostimulant action? (1)
- | | | | |
|-----------------|--------------------|----------------|--------------|
| 1) Interleukins | 2) Corticosteroids | 3) Cyclosporin | 4) Sirolimus |
|-----------------|--------------------|----------------|--------------|
- 12) _____ is a calcineurin inhibitor (1)
- | | | | |
|--------------|----------------|-----------------|-----------------|
| 1) Sirolimus | 2) Cycloserine | 3) Cyclosporine | 4) Azathioprine |
|--------------|----------------|-----------------|-----------------|
- 13) Which one of the followings is not an anti-metabolite drug? (1)
- | | | | |
|--------------|-----------------|--------------------|-------------------|
| 1) Cisplatin | 2) Methotrexate | 3) 6-mecaptopurine | 4) 5-fluorouracil |
|--------------|-----------------|--------------------|-------------------|
- 14) A typical antifungal cream interferes with (1)
- | | | | |
|-------------|------------|-----------|---------------|
| 1) Collagen | 2) Protein | 3) Chitin | 4) Ergosterol |
|-------------|------------|-----------|---------------|
- 15) Skin grafts from other strains of mice are accepted in nude mice because they do not produce _____. (1)
- | | | | |
|----------------|-------------------|---------------|------------|
| 1) Complements | 2) Hair follicles | 3) Phagocytes | 4) T cells |
|----------------|-------------------|---------------|------------|
- 16) Which one among the followings should be the drug of choice for allergic cough: (1)
- | | | | |
|----------------------|--------------------|-------------|-----------------|
| 1) Ammonium chloride | 2) Diphenhydramine | 3) Ambroxol | 4) Guaiphenesin |
|----------------------|--------------------|-------------|-----------------|
- 17) Which one of the followings effective against amocba in lumen: (1)
- | | | | |
|----------------|----------------|----------------|--------------------|
| 1) Paromomycin | 2) Chloroquine | 3) Metrifonate | 4) Oxytetracycline |
|----------------|----------------|----------------|--------------------|
- 18) Streptomycin sulfate is not absorbed orally because it is: (1)
- | | | | |
|-----------------------------------------|------------------------------------------------|------------------------------|-----------------------|
| 1) Degraded by gastrointestinal enzymes | 2) Highly ionized at a wide range of pH values | 3) Destroyed by gastric acid | 4) Insoluble in water |
|-----------------------------------------|------------------------------------------------|------------------------------|-----------------------|
- 19) In a 5-year old child, iron poisoning is treated by (1)
- | | | | |
|-------------------|------------------------------|------------------|----------------------|
| 1) Stomach lavage | 2) Desferrioxamine IV 100 mg | 3) X-ray abdomen | 4) Blood transfusion |
|-------------------|------------------------------|------------------|----------------------|
- 20) The normal therapeutic adult dose of gentamicin is 350 mg (i.v. per day). For a patient with renal disease with creatinine clearance of 40ml/min, calculate the corrected dose (mg / day) of gentamicin. (1)
- | | | | |
|--------|---------|--------|--------|
| 1) 140 | 2) 8.75 | 3) 120 | 4) 100 |
|--------|---------|--------|--------|

II Long Answers

Answer all the questions.

- 1) Discuss the pathophysiology of Asthma. With examples, classify drugs used for the treatment of Asthma. (10)
- 2) With the help of a diagram, discuss the process of bacterial cell wall synthesis and mechanism of drugs affecting it. (10)

III Short Answers

Answer all the questions.

- 1) List the problems associated with chemotherapy. Explain any two. (5)

- 2) Briefly, write the specific mechanism of actions of 1) Zidovudine 2) Ritonavir 3) Enfuvirtide 4) Ribavirin 5) Acyclovir (5)
- 3) With suitable examples, classify antifungal agents. (5)
- 4) Explain the mechanism of action of sirolimus. (5)
- 5) Discuss the principles for the general management of poisoning. (5)
- 6) Elaborate upon purpose, procedure and outcome of sub-acute toxicity studies. (5)
- 7) Write a note on special toxicity studies for a new chemical entity. (5)

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