For Candidate:

A 55 years old known hypertensive patient suffered from an attack of atrial fibrillation due to which he has now congestive heart failure

Task NO 9:

Carefully read and answer the following question:

- Name the P-drug which can be useful for both CCF and Atrial
 Fibrillation (01)
- 2. What will be your choice if the patient is only suffering from CCF (without any Atrial Fibrillation)?
 1/2+1/2
- Name drugs / groups which are useful in decreasing mortality in CCF
 (02)
- 4. Which drug is useful in CCF but carry the increased risk of sudden death? (01)

Key:

1. P-drug for CCF with Atrial Fibrillation is Digoxin

01

- 2. Other choice for CCF only:
 - a. Spironolactone (aldosterone antagonist),
 - b. Captopril (ACE inhibitor)

1/2 + 1/2

3. Other drugs / groups useful in decreasing mortality in CCF:

- a. Spironolactone,
- b. Captopril,
- c. Carvedilol,
- d. Isosorbide dinitriate

1/2 X 4

4. Drug useful in CCF but carry the increased risk of sudden death is Digoxin 01

| 6. <u>Fo</u> | rks: 05 owed: 04 minutes or Candidate: | | Ume |
|----------------|---|-------------|-----|
| 7. 8. Ta | sk NO 10: | | |
| 9. | | | |
| 10. | Calculate the dose of amoxicillin for a child of 3 years | | |
| 11. | (adult dose =500mg 8 hourly) | | |
| 12. 13. | <u>Key:</u> | | |
| 14. 15. | Youngs formula =adult dose ×age (years) /age+12 So dose of amoxicillin for 3 years child would be | | 02 |
| 16. 17. | | | |
| 18. 19. | Dose for 3 years | =500×3/3+12 | 02 |
| 20. | | =500×3/15 | |
| 21. 22. | | =500×1/5 | |
| 23. 24. | | =100mg | |
| 25. | So dose of 3 years child is =100mg 8 hourly | | |
| Λ1 | | | |

Unobserved Station 1

Marks: 05 allowed: 04 minutes For Candidate:

Time

Task NO 1:

Calculate the plasma half-life ($t\frac{1}{2}$) of a drug when its volume of distribution (Vd) is 70L and its clearance (Cl) is 3.5L/hour.

Key:

Plasma Half Life (t½) =
$$\frac{0.693 \text{ X Vd}}{\text{Cl}}$$
 (2)

In this case Vd = 70L, while Cl = 3.5L/hr, so putting these values in the given formula

$$t\frac{1}{2} = \frac{0.693 \times 70}{3.5}$$

$$48.51 / 3.5 = 13.86 \text{ hr}$$

So plasma half-life of this drug is 13.86 hour (which is about 14 hr)

Allowed: 04 minutes

For Candidate:

Time

Task NO 2:

Carefully read and answer the following question:

Write down prescription for acute pulmonary edema

Key:

Doctor name: Dr ABC, MBBS

(1/2)

Mohafiz Town Lahore Phone No: 042-3456789

Patient Name: Mr. Abdullah Akhtar, Sex: male

Date 29-11-15

Age: 20 year, Address: 123, A block,

Delta Town, Lahore

R/

1. Injection Furosemide 20 mg

(3)

1/2)

2 ampules I/V stat Monitor out put Repeat 4 ampule I/V Monitor Na+,K+ levels

2. Injection Morphine Sulphate 10mg S/C stat

Signature of

Doctor

(1)

Registration No: P

- 0001

For Candidate:

A 35 years old known alcoholic male presented in the OPD now with complaints of griping abdominal pain and 4 – 5 stools in a day with mucus and blood; stool examination also reveals presence of entamoeba histolytica.

Task NO 3:

Carefully read and answer the following question:

- 1. Name TWO Nitroimidazoles along with doses and duration of the therapy, which are luminal and tissue amebicides.
- 2. Name any two luminal amebicide drugs which can be combined with tissue amebicides also.
- 3. What instructions would you advise to this patient regarding his alcohol intake during the treatment

Key:

a. Metronodazole 750mg TID for 10 days 2) b. Tinidazole 2g Once for 3 days

2. a. Diloxanide furoate (2)

b. Iodoquinol

3. Metronidazole has disulfiram like reactions with alcohol, so to avoid nausea & vomiting, etc alcohol intake should be stopped during this therapy.

Task NO 4:

Carefully read and answer the following question:

 $\sum d^2 = 288$ n = 9Calculate Standard Error of Mean (SEM)

Key:

SEM =
$$\sqrt{\sum d^2 / n (n-1)}$$
 (1)

$$= \sqrt{288 / 9 (9-1)} \tag{1}$$

$$= \sqrt{288 / 9 (8)} \tag{1}$$

$$=\sqrt{288/72}\tag{1}$$

$$=\sqrt{4} \tag{1/2}$$

Marks: 05 Allowed: 04 minutes For Candidate:

Task NO 5:

If a drug is given I/V, its **Vd is 40** litre and target concentration is **15mg/litre**. calculate the loading dose of that particular drug.

For Examiner:

Key:

Formula to calculate loading dose

Loading dose= $\underline{Vd \times desired\ plasma\ concentration}$ Bioavailability

(3)

$$= \frac{40 \times 15}{1}$$

(1)

$$= 600 \text{ mg}$$

(1)

Task NO 6:

Carefully read and answer the following question:

Write down a prescription for chloroquine resistant malaria

Key:

Doctor name: Dr Ahmad, MBBS

01-12-2015

(1/2)

Awan Town Lahore

Phone No: 042-3456789

Patient Name: Mr Rehan Akhtar, Sex: male

(1/2)

Age: 20 year,

Address: 123, A block, Township, Lahore

R/

Tab quinine sulphate 300mg

(3)

2 tab 3 times a day for 3-5 days

Cap doxycycline 100 mg

1 cap 2 times a day for 7 days

Signature of

Doctor

(1)

Registration No: P - 0001

Task NO 7:

A 50 years old female comes to OPD with complaint of suffocating chest pain attacks which begins with exertion and disappears quickly after she stops work. A diagnosis of angina on effort is made.

Carefully read and answer the following question:

1. What is P drug?

2. Why you prefer this drug in this scenario? (1)

3. what various groups of drugs can be used in this patient.

(2)

Key:

- Tab nitroglycerine 1 mg ,sublingual SOS
- 2. immediate relief of chest pain by sublingual route
- 3. GROUPS.
 - a. calcium channel blockers
 - b. beta blockers

(2)

Task NU 8.

Carefully read and answer the following question:

An 18 years old boy has H/O fever for last 10 days with abdominal discomfort and pain.

His temperature has risen in a step ladder pattern.he is diagnosed to be suffering from enteric fever .What treatment would you give to this patient

Key:

R/

- 1. Tab ciprofloxacin 500mg 1 tab BD for ten days
- 2. Tab paracetamol 500 mg 1 tab TDS