



# DR. B. C. ROY COLLEGE OF PHARMACY & AHS, DURGAPUR

ONLINE MODE OF EXAM. THROUGH  
GOOGLE FORM

B. Pharm. IIIrd Year 5<sup>th</sup> Semester, 2021 3<sup>rd</sup> continuous Assessment

SUBJECT: Pharmaceutical Organic Chemistry

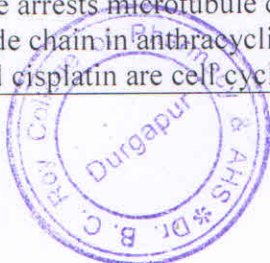
CODE: PT 513B

Time: 30 minutes

Full Marks: 25

ANSWER ALL THE QUESTIONS. EACH QUESTION CARRIES 2 MARKS BUT QUESTION NO 11 CARRIES 5 MARKS. ONE PARTICULAR QUESTION MAY HAVE MORE THAN ONE CORRECT ANSWER.

Q. No	Question	Map. CO	Marks
1	The substitution of N1 in 1,4-dihydropyridine (1,4-DHP) A) Increases the activity B) Decreases the activity C) Does not alter the activity D) Increases the activity along with the toxicity	CO.4	2
2	Which one is the benzothiazepine containing drug A) Verapamil B) Bepridil C) Diltiazem D) Quinidine	CO.4	2
3	Starting compound for the synthesis of disopyramide is A) 4-Bromo pyridine B) 3-Bromo pyridine C) 2-Bromo pyridine D) 4-Bromo pyrazine	CO.1	2
4	Marked decrease in $dv/dt$ of 0 phase is observed with which drug A) Quindine B) Procainamide C) Lidocaine D) Mexiletine	CO.5	2
5	Which one is the correct IUPAC name of minoxidil A) 2,5-pyrimidine diamine 3-oxide B) 6-(1-Piperidinyl)-2,4-pyrimidine diamine 3-oxide C) 6-(1-Piperazinyl)-2,4-pyrimidine diamine 3-oxide D) 2,4-pyrimidine diamine 3-oxide	CO.4	2
6	Number of chiral centers in the structure of clonidine is? A) 0 B) 1 C) 2 D) 3	CO.4	2
7	The following ACE inhibitor used in treating cardiovascular disorder is synthesized from the natural amino acid L-alanine and L-proline A) Captopril B) Enalapril C) Ramipril D) All of these	CO.1	2
8	Pick the odd one out A) Cytarabine B) Paclitaxel C) Etoposide D) Cisplatin	CO.5	2
9	Identify the structure with the presence of any one of these rings 1) Aziridine ring 2) Pteridine ring 3) Oxazaphosphorin ring 4) Anthraquinone A) 5-FU B) 6-MP C) CCNU D) Mtx	CO.5	2
10	Thio-tepa acts as anticancer agent acts as A) alkylating agent before metabolism B) alkylating agent after metabolism C) phosphorylating agent after metabolism D) DNA intercalating agent	CO.5	2
11	Choose the correct statement A) Vincristine and vinblastine arrests microtubule disassembly B) Doxorubicin has acetyl side chain in anthracycline ring C) Melphalan, busulphan and cisplatin are cell cycle specific agents.	CO.5	5



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- D) Mtx differs from folic acid by the absence of -N(CH<sub>3</sub>) in PABA end  
E) All are incorrect

## QUESTION PAPER AND CO. MAPPING

CO	NO OF QUES.	MARKS
CO. 1	2	4
CO. 2	-	-
CO. 3	-	-
CO. 4	4	8
CO. 5	5	13
TOTAL		25



  
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B. Pharm. 2<sup>nd</sup> Year 3<sup>rd</sup> Semester, 2021, 2<sup>nd</sup> CA

COURSE: B. PHARM/

PAPER: PHARMACEUTICAL MICROBIOLOGY (Theory)  
LAST DATE OF SUBMISSION -25/10/2021

CODE: PT319  
Full Marks: 25

WRITE THE ASSIGNMENT (IN YOUR OWN HANDWRITING) IN AN A4 PAPER AND UPLOAD IN PDF FORMAT IN THE UPLOADING SECTION OF GOOGLE FORM.

Assignment/Topic	Map. CO	Marks	
1. Why and how the growth curve of bacteria in the below mentioned figure these ways. You have to write in details with proper reasons (5+5+5=15) <a href="#">CLICK HERE FOR THE FIGURE</a>	CO2	15	
2. In a parenteral manufacturing unit of a pharmaceutical company normal saline transfusion bottles are prepared. One day one of the batch of normal saline failed in the test for pyrogen in their quality control laboratory, but only it happened with some bottles, it was 28 bottles in nos. but at least 800 bottles out of 1000 that were autoclaved originally have pyrogen present, i.e. free of pyrogen (7+3=10) a) Why & how it can happen? b) Can the pyrogen be removed and processed to be marketed?	CO2	10	
ASSIGNMENT AND CO. MAPPING	CO	NO OF QUES.	MARKS
	CO. 2	1	15
	CO2	2	10
	TOTAL	1	25


[SUBMIT YOUR ASSIGNMENT HERE](#)  
(LAST DATE-25/10/2021)

[DOWNLOAD THE FRONT PAGE FROM HERE](#)

## INSTRUCTION

1. Assignment should be written in own hand writing with blue/black pen
2. No typing or print document should be submitted
3. Mention page number properly at the right bottom corner of each page
4. Attach the front page (as supplied) and scan the A4 sheet serially
5. Scan pdf file should be renamed as <Roll no>\_<your name>



  
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Google form

**PT-216 4-05-2020 AC**

\* Required

1. Email address \*

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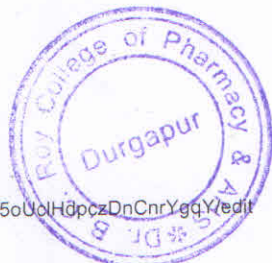
2. FULL NAME \*

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3. UNIVERSITY ROLL NO (Do not write your Class Roll) \*

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## 4. Subject Code \*

Mark only one oval.

- PT 213  
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 PT 215  
 PT 216  
 PTC 203  
 HU 282  
 PT 413  
 PT 414  
 PT 416  
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 MPT 2081  
 MPT 2082  
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## 5. Faculty \*

Mark only one oval.

- AB-AALOK BASU
- AC-AVIJIT CHATTERJEE
- AM-ANIRUDDHA MUKHERJEE
- DC-DIPESH CHAKRABORTY
- IB-INDRANI BHATTACHARYYA
- IC-INDRAJIT CHAND
- JM-JAYITA MONDAL
- KG-KAJAL GHOSAL
- MD-MANAMI DHIBAR
- NG-NILANJAN GHOSH
- PM-PUJA MISHRA
- PSP-PARTHASARATHI PANDA
- RCG-RITUPARNA CHAKI GHOSH
- SAM-SOUMYA MITRA
- SbR-SUBHABRATA RAY
- SB-SOUMEN BANERJEE
- SC-SUBRATA CHAKRABORTY
- SDT-SAGARIKA DEEPTHY T
- ShB-SHOBHAN BOSE
- SKM-SUDIP KUMAR MANDAL
- SK-SONJOY KONAR
- SnC-SANTANU CHAKRABORTY
- SnM-SANCHAREE MONDAL
- SpD-SAPTARSHI DUTTA
- SpR-SHYAMAPADA ROY
- SR-SUMAN ROY
- SSM-SAROJ SINGHMURA
- SS-SAGAR SENGUPTA
- SSSM-SHYAMSHREE SS MANNA
- SvB-SOUVIK BASAK



*Ray*  
19/4/20

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TC-TANIYA CHAKRABORTY US-UJJWAL SAHOO

## Quiz Section

Carefully Answer each question based on your understanding of today's class.

6. 1. Classic symptoms of meningitis usually include

3 points

*Check all that apply.*

- Fever, headache, stiff neck
- Backache, hallucinations, indigestion
- Rash, inner ear pain, itching\*
- Dry skin, dehydration, cold sores

7. 2. Which of the following kidney function is NOT true?

3 points

*Check all that apply.*

- Regulate blood volume and composition
- Regulate blood pressure
- Synthesize glucocorticoids
- Defend the body against disease

8. 3. If DNA is damaged, which of the following gene arrest cell cycle

3 points

*Check all that apply.*

- Rb
- p53
- Hedgehock receptor
- p16



*Ray*  
19/4/20

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9. 4. Name the cells which lost their control of the regulated division, differentiation, and apoptosis 3 points

Check all that apply.

- Tumour cell  
 Immune cell  
 Platelets  
 Stem cells

10. 5. Syphilis is a complex systemic sexually transmitted infection caused by 3 points

Check all that apply.

- Virus  
 Fungus  
 The spirochete  
 Helminth

11. 6. Which of the following is not a single stranded RNA virus 3 points

Check all that apply.


- HAV  
 HBV  
 HCV  
 HDV

12. 7. Urobilinogen is absent in the urine in following type of jaundice 3 points

Check all that apply.

- Hemolytic  
 Hepatocellular  
 Obstructive  
 Congenital Hyperbilirubinaemia



  
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13. 8. Jaundice in malaria is classified under.

2 points

Check all that apply.

- Congenital hyperbilirubinaemia
- Hemolytic
- Hepatocellular
- Obstructive

14. 9. Hepatitis B can produce all of the following except

1 point

Check all that apply.

- Acute hepatitis
- Helper independent latent infection
- Non progressive chronic hepatitis
- An asymptomatic carrier state

15. 10. Hepatitis E

1 point

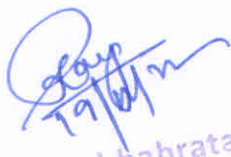
Check all that apply.

- Is a partially double stranded DNA virus
- Is diagnosed by PCR for HEV RNA and detection of serum IgM and IgG antibodies
- Frequency of chronic liver disease is 80%
- Route of transmission is sexual contact

Additional Information

Mandatory Information to be submitted to University



  
19/6/20  
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## 16. Mention your Daily SELF Activities in this period of Lockdown (for MAR) \*

[Keep the corresponding Documents/weblink etc. for submission to your Mentor, when asked]

Check all that apply.

- Theme Photography and Publishing Online
- Video Film making
- Writing and Publishing Online Poetry/Story etc.
- Reviewing Story/Novel/Film etc.
- Cooking
- Recording Songs and Publishing Online
- Gardening
- Household Work
- Creation of Social Networking group (to Spread Social Awareness)
- Technical Review Article and Publishing Online
- Mobile App Development / Coding Solution
- Learning of Foreign Language (with Certification)

Other:  \_\_\_\_\_


## 17. Remarks

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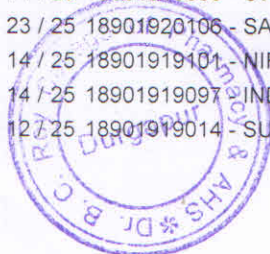
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# Response Sheet

Timestamp	Email Address	Score	University Roll No - Name of the Student	Subject Code	Date of Examination
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11-29-2021 18:59:28	debojyoti241091@gmail.co	12 / 25	18901918097 - DEBOJYOTI SARKAR	PT513B	29-11-2021
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11-29-2021 18:59:30	imsayed2016@gmail.com	14 / 25	18901919071 - SAYED ANOWAR	PT513B	29-11-2021
11-29-2021 18:59:32	swapnamoygayen2001@g	21 / 25	18901919058 - SWAPNAMOY GAYEN	PT513B	29-11-2021
11-29-2021 18:59:33	anirbandalui15@gmail.com	23 / 25	18901919026 - ANIRBAN DALUI	PT513B	29-11-2021
11-29-2021 18:59:35	souvikbenadiha26@gmail.	14 / 25	18901919045 - SOUVIK GHOSH	PT513B	29-11-2021
11-29-2021 18:59:35	debamray1@gmail.com	14 / 25	18901919003 - DEBAM RAY	PT513B	29-11-2021
11-29-2021 18:59:37	jayitapal1027@gmail.com	12 / 25	18901919092 - JAYITA PAL	PT513B	29-11-2021
11-29-2021 18:59:42	adarshaganguly303@gma	12 / 25	18901919038 - ADARSHA GANGULY	PT513B	29-11-2021
11-29-2021 18:59:43	msudip422@gmail.com	14 / 25	18901919078 - SUDIP MONDAL	PT513B	29-11-2021
11-29-2021 18:59:43	souravpatra992@gmail.co	14 / 25	18901919060 - SOURAV PATRA	PT513B	29-11-2021
11-29-2021 18:59:44	priyasingharay0@gmail.co	21 / 25	18901918068 - PRIYA RAY	PT513B	29-11-2021
11-29-2021 18:59:45	rohon9749@gmail.com	19 / 25	18901919054 - ARKAPRAVA PAUL	PT513B	29-11-2021
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11-29-2021 18:59:47	saikatrnbk@gmail.com	23 / 25	18901920119 - SAIKAT RAKSHIT	PT513B	29-11-2021
11-29-2021 18:59:48	sudinnayek2000@gmail.co	14 / 25	18901919011 - SUDIN NAYEK	PT513B	29-11-2021
11-29-2021 18:59:50	anurajaaditya10@gmail.cc	23 / 25	18901920117 - ANURAG DAS	PT513B	29-11-2021
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11-29-2021 19:00:01	hirakganguly.123@gmail.c	12 / 25	18901919096 - HIRAK DYUTI GANGUL	PT513B	29-11-2021
11-29-2021 19:00:07	soyedrana3@gmail.com	4 / 25	18901920108 - SOYED RANA	PT513B	29-11-2021
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11-29-2021 19:00:10	babaikarforma@gmail.com	14 / 25	18901919015 - DEBARGHYA KARFORI	PT513B	29-11-2021
11-29-2021 19:00:11	anganachakraborty2001@	19 / 25	18901919020 - ANGANA CHAKRABOR	PT513B	29-11-2021
11-29-2021 19:00:16	abdurjesun07@gmail.com	19 / 25	18901919019 - ABDUR RAHAMAN	PT513B	29-11-2021
11-29-2021 19:00:19	hksaha0@gmail.com	12 / 25	18901919029 - HAREKRISHNA SAHA	PT513B	29-11-2021
11-29-2021 19:00:20	boniisrailwb@gmail.com	19 / 25	18901920109 - BONI ISRAIL	PT513B	29-11-2021
11-29-2021 19:00:26	roygopendrakrishna@gma	17 / 25	18901919027 - GOPENDRA KRISHNA I	PT513B	29-11-2021
11-29-2021 19:00:26	konersnehasish2000@gm	6 / 25	18901919046 - SNEHASISH KONER	PT513B	29-11-2021
11-29-2021 19:00:28	ranadipen0@gmail.com	12 / 25	18901919013 - DIPEN RANA	PT513B	29-11-2021
11-29-2021 19:00:29	kumbhakaranita2001@gm	12 / 25	18901919005 - ANITA KUMBHAKAR	PT513B	29-11-2021
11-29-2021 19:00:35	ramkrishnamahata1999@	19 / 25	18901920111 - RAMKRISHNA MAHATA	PT513B	29-11-2021

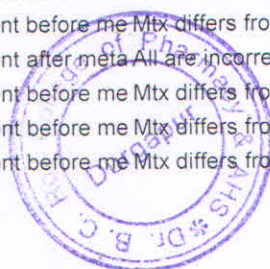
  
 (Dr.) Subhrajay  
 Principal, M. Pham  
 C. Roy College of Pharma  
 Durgapur, Durgapur  
 A.H.S.





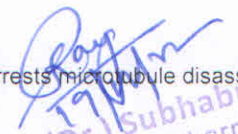
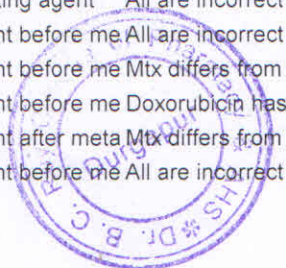
Number of cl The following Pick the ock Identify Thio-tepa acts as anticanc Choose the correct statement

- 0 Enalapril Etoposide 5-FU alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
- 0 All of these Etoposide Mtx alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
- 0 All of these Cisplatin Mtx alkylating agent before me All are incorrect
- 0 All of these Cisplatin Mtx alkylating agent before me All are incorrect
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- 0 Enalapril Cytarabine Mtx DNA intercalating agent Vincristine and vinblastine arrests microtubule disassembly
- 0 All of these Etoposide Mtx alkylating agent before me All are incorrect
- 0 All of these Etoposide CCNU alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
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- 0 Enalapril Etoposide Mtx alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
- 0 Enalapril Etoposide 6-MP alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
- 0 Enalapril Etoposide Mtx alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
- 0 Enalapril Cytarabine Mtx DNA intercalating agent All are incorrect
- 0 Enalapril Cytarabine Mtx DNA intercalating agent Vincristine and vinblastine arrests microtubule disassembly
- 0 All of these Cisplatin Mtx alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
- 0 Enalapril Etoposide Mtx alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
- 0 Enalapril Etoposide 6-MP alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
- 0 Enalapril Cisplatin 6-MP DNA intercalating agent Melphalan, busulphan and cisplatin are cell cycle specific agents
- 0 All of these Cisplatin Mtx alkylating agent before me All are incorrect
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- 0 Enalapril Cytarabine Mtx DNA intercalating agent Vincristine and vinblastine arrests microtubule disassembly
- 0 All of these Cisplatin Mtx alkylating agent before me All are incorrect
- 2 Enalapril Etoposide Mtx DNA intercalating agent Vincristine and vinblastine arrests microtubule disassembly
- 0 All of these Cisplatin Mtx alkylating agent after meta All are incorrect
- 0 Enalapril Etoposide Mtx alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
- 0 All of these Etoposide CCNU alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
- 0 All of these Cisplatin Mtx alkylating agent before me All are incorrect
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- 0 Enalapril Cytarabine Mtx alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
- 0 Enalapril Etoposide Mtx alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
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- 0 Enalapril Etoposide Mtx alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
- 0 All of these Etoposide Mtx alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end



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0	Enalapril	Etoposide	Mtx	alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
0	Enalapril	Cytarabine	Mtx	DNA intercalating agent Vincristine and vinblastine arrests microtubule disassembly
0	Enalapril	Etoposide	Mtx	alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
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0	Enalapril	Etoposide	Mtx	alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
0	All of these	Etoposide	Mtx	alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
0	Enalapril	Etoposide	Mtx	alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
0	Enalapril	Cytarabine	Mtx	DNA intercalating agent All are incorrect
0	Enalapril	Etoposide	Mtx	alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
0	Enalapril	Etoposide	Mtx	alkylating agent after meta All are incorrect
0	Captopril	Cytarabine	Mtx	alkylating agent after meta All are incorrect
0	Enalapril	Cytarabine	Mtx	alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
0	All of these	Cytarabine	Mtx	alkylating agent before me All are incorrect
0	All of these	Cisplatin	Mtx	alkylating agent after meta Mtx differs from folic acid by the absence of -N(CH3) in PABA end
0	All of these	Etoposide	Mtx	alkylating agent before me All are incorrect
0	Enalapril	Etoposide	Mtx	alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
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0	Enalapril	Cytarabine	Mtx	DNA intercalating agent Vincristine and vinblastine arrests microtubule disassembly
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0	Captopril	Etoposide	Mtx	alkylating agent before me All are incorrect
0	Enalapril	Cytarabine	Mtx	alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
0	Enalapril	Etoposide	CCNU	alkylating agent after meta All are incorrect
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0	Enalapril	Cytarabine	Mtx	alkylating agent before me Doxorubicin has acetyl side chain in anthracycline ring
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0	Enalapril	Etoposide	Mtx	alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
0	Enalapril	Cytarabine	Mtx	DNA intercalating agent Vincristine and vinblastine arrests microtubule disassembly
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0	Enalapril	Etoposide	Mtx	alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
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0	Enalapril	Etoposide	Mtx	alkylating agent after meta All are incorrect
0	All of these	Etoposide	Mtx	alkylating agent after meta All are incorrect
0	Enalapril	Cytarabine	Mtx	DNA intercalating agent Vincristine and vinblastine arrests microtubule disassembly
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0	Enalapril	Etoposide	Mtx	alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
0	Enalapril	Cisplatin	Mtx	alkylating agent after meta All are incorrect
0	Enalapril	Etoposide	5-FU	DNA intercalating agent Mtx differs from folic acid by the absence of -N(CH3) in PABA end
0	Enalapril	Cytarabine	Mtx	DNA intercalating agent Vincristine and vinblastine arrests microtubule disassembly
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0	Enalapril	Cytarabine	Mtx	DNA intercalating agent Vincristine and vinblastine arrests microtubule disassembly
0	Enalapril	Cytarabine	Mtx	DNA intercalating agent All are incorrect
0	Ramipril	Cisplatin	Mtx	alkylating agent before me All are incorrect
0	Captopril	Paclitaxel	CCNU	alkylating agent before me Mtx differs from folic acid by the absence of -N(CH3) in PABA end
0	All of these	Cisplatin	Mtx	alkylating agent before me Doxorubicin has acetyl side chain in anthracycline ring
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Offline mode

DR. B. C. ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES, DURGAPUR – 713206

B. PHARM. 1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER (NEW) 1<sup>ST</sup> SESSIONAL EXAMINATION 2018

PAPER: PHARMACEUTICAL ANALYSIS - I

CODE: PT 101

TIME: 1 HOUR

Question Paper Jerrald → FM: 20

**Section A (Attempt ALL)**

5 x 1=10

1. Non aqueous titration is carried out for  
a) water insoluble drug b) weakly acidic drug c) weakly basic drugs d) all
2. Which one is the aprotic solvent? a) Chloroform b) benzene c) both d) none
3. Perchloric acid can be standardized by using  
a) benzoic acid b) oxalic acid c) potassium hydrogen phthalate d. tartaric acid
4. EDTA is forming complex in the ratio of a. 1:1 b. 1:2 c 2:1 d. none
5. Primary standard substance is a) Oxalic acid b) Sodium hydroxide c) Potassium hydroxide d) None

**GROUP – B: Short Answer Type Questions (Answer any two)**

2 x 2.5 = 5

6. What is Pharmaceutical Analysis? Explain its importance in Pharmaceutical field?
7. Define Qualitative analysis and Quantitative analysis?
8. Write the methods of expressing the concentration of a substance?

**GROUP – C: Long Answer Type Questions (Answer any one)**

1x 10 = 10

9. Discuss different types of solvents used in non- aqueous titration with example. How water interferes in the titration of weakly acidic and weakly basic drugs. How would you prepare and standardise 0.1N HClO<sub>4</sub>. What are different types of complexometric titrations? Discuss in brief. 2.5+2.5+5
10. Define Primary and Secondary standard substances? Describe the properties of a Primary standard substance? 2.5+2.5 +5=10

DR. B. C. ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES, DURGAPUR – 713206

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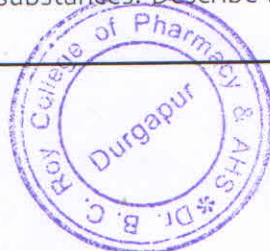
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