| Registration No: | | | | | |
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| | | | | | i |

Total Number of Pages: 01

B.Pharma.

BP101T

1st Semester Regular Examination 2017-18 HUMAN ANATOMY AND PHYSIOLOGY - I BRANCH: B.Pharma.

Time: 3 Hours Max Marks: 75 Q.CODE: B1084

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

| Q157 | | Answer the following questions : | 257 | 257 | 257 | (2x10) | 257 |
|----------------------|-------------------|--|--|-------------------|---------------|--|-----|
| | a) | Define Cell. | | | | | |
| | b) | What is Haemoglobin? | | | | | |
| | c) | Write the functions of Mitochondria. | | | | | |
| | d) | Write the functions of CSF. | | | | | |
| | e) | What is Cardiac output? | | | | | |
| | f) | Which bones are involved in Shoulder joir | nt? | | | | |
| | g) | What is Clotting time? | | | | | |
| 257 | h) | Define Rhrfactor? 257 | 257 | 257 | 257 | | 257 |
| | i) | What is Megaloblastic anemia? | | | | | |
| | j) | Write the functions of Skeletal muscle. | | | | | |
| | D) | A manufacture that a series of the efall and in a | | | | (4 × E) | |
| | B) | Answer the correct option of the following | | /12 no | ira/21 naira) | (1×5) | |
| | i) ii) | How many pairs of cranial nerves arising | | , , | irs/31 pairs) | | |
| | iii) | Which auricle of heart receives oxygenate Total life span of RBC. | eu bloou? | (Right auricle | ys/120days) | | |
| | iv) | Polycythemia occurs due to increase in the | e number of | • | (RBC/WBC) | | |
| 257 | v) | Bone is a | | I tissue/Conne | , | | 257 |
| | ٠, | Done is a | (Lpiti icila | i lissuc/ourific | stive tissue) | | |
| | | | | | | | |
| Q2 | | Draw a neat and clean diagram of Human | Heart with p | roper labeling. | | (10) | |
| Q2 Q3 | | Draw a neat and clean diagram of Human Describe different types of Blood circulation | · | | | (10) (10) | |
| | | • | ons in details. | abeling | | ` , | |
| Q3 Q4 | a) | Describe different types of Blood circulation Write details on Human Eye with a diagra | ons in details. m and proper | | 257 | (10) (10) | 257 |
| Q3 | a) b) | Describe different types of Blood circulation. Write details on Human Eye with a diagram Describe the mechanism of blood clotting | ons in details. m and proper | abeling | 257 | (10) (10) (5) | 257 |
| Q3 Q4 | a) b) | Describe different types of Blood circulation Write details on Human Eye with a diagra | ons in details. m and proper | abeling | 257 | (10) (10) | 257 |
| Q3 Q4 Q5 | b) | Describe different types of Blood circulation. Write details on Human Eye with a diagram Describe the mechanism of blood clotting. Write the various functions of blood. | ons in details. m and proper | abeling | 257 | (10) (10) (5) (5) | 257 |
| Q3 Q4 | b) a) | Describe different types of Blood circulation. Write details on Human Eye with a diagram Describe the mechanism of blood clotting. Write the various functions of blood. Differentiate between CNS and ANS. | ons in details. m and proper | abeling | 257 | (10) (10) (5) (5) (5) | 257 |
| Q3 Q4 Q5 | b) | Describe different types of Blood circulation. Write details on Human Eye with a diagram Describe the mechanism of blood clotting. Write the various functions of blood. | ons in details. m and proper | abeling | 257 | (10) (10) (5) (5) | 257 |
| Q3 Q4 Q5 | b) a) | Describe different types of Blood circulation. Write details on Human Eye with a diagram Describe the mechanism of blood clotting. Write the various functions of blood. Differentiate between CNS and ANS. | ons in details. m and proper | r labeling 257 | 257 | (10) (10) (5) (5) (5) | 257 |
| Q3 Q4 Q5 Q6 | b) a) b) | Describe different types of Blood circulation. Write details on Human Eye with a diagram Describe the mechanism of blood clotting. Write the various functions of blood. Differentiate between CNS and ANS. Write a short note on Neurone. | ons in details. m and proper | r labeling 257 | 257 | (10) (10) (5) (5) (5) (5) | 257 |
| Q3 Q4 Q5 Q6 Q7 257 | b) a) b) a) b) b) | Describe different types of Blood circulation. Write details on Human Eye with a diagram Describe the mechanism of blood clotting. Write the various functions of blood. Differentiate between CNS and ANS. Write a short note on Neurone. Discuss briefly the different properties of Company of the Compan | ons in details. m and proper | labeling 257 ele. | | (10) (10) (5) (5) (5) (5) (5) (5) | |
| Q3 Q4 Q5 Q6 | b) a) b) a) | Describe different types of Blood circulation. Write details on Human Eye with a diagram Describe the mechanism of blood clotting. Write the various functions of blood. Differentiate between CNS and ANS. Write a short note on Neurone. Discuss briefly the different properties of Control of C | ons in details. m and proper 257 Cardiac musc | labeling 257 ele. | | (10) (10) (5) (5) (5) (5) (5) | |

| Regi | strati | on No:57 257 251 257 | 257 | 257 |
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| Tota | l Num | nber of Pages: 02 B.F | Pharma. | |
| | | | BP102T | |
| | | 1 st Semester Regular Examination 2017-18 PHARMACEUTICAL ANALYSIS – I | | |
| | | Branch: B.Pharma | | |
| 257 | | 257 Time: 3 Hours | 257 | 257 |
| | | Max Marks: 75 | | |
| | Δr | Q. Code: B842 nswer question No. 1 is compulsory and any five of the rest. | | |
| | AI | The figure in right hand margin indicates marks. | | |
| 1. | (a) | Answer the following Questions. | (2X10) | |
| •• | i. | What is accuracy and precision? | (27(10) | |
| 257 | ii. | What is primary standard and secondary standard? 257 | 257 | 257 |
| | iii. iv. | Define 'Normality' and 'Molarity'. Why KI is used during iodine solution preparation? | | |
| | ۱۷. V. | What is acid and base (according to Arrhenius Theorem)? | | |
| | vi. | What is the basis of non-aqueous titration? | | |
| | vii. | What is levelling effect? Explain with example. | | |
| | viii. ix. | What is Nernst Equation? What is common ion effect? | | |
| 257 | х. | What is common for effect? What is masking and de-masking agent? 257 | 257 | 257 |
| | (b) | Answer following multiple choice questions. | (1X5) | |
| | i. | Which one of the following is not a chelating agent? | (- / | |
| | •• | 1.EDTA 2.lime stone 3.Ca ⁺⁺ 4. HCl | | |
| | ii. | Which one of the following is most soluble in the water? 1.CH ₃ CH ₂ OH 2.CH ₃ CH ₂ CH ₂ OH 3.CH ₃ OH 4.CH ₃ CH ₂ CH ₂ CH ₂ OH | | |
| | iii. | Silver carbonate is most soluble in . | | |
| 257 | _ | 1. Sodium carbonate 2. Nitric acid 3. Silver nitrate 4. silver chloride | 257 | 257 |
| | iv. | Non aqueous titration is carried out for | | |
| | | Water insoluble drugs Weakly acidic drugs | | |
| | | Weakly basic drugs | | |
| | | 4. All of above | | |
| | V. | Which "metal" and "indicator" is used for the standardization of EDTA solution | | |
| 257 | | 1. Copper and Calcon ²⁵⁷ | 257 | 257 |
| | | 2. Iorn and Catachol Voilet | | |
| | | 3. Copper and Mordant black II | | |
| | | Zinc and Mordant black II | | |
| 2. | | Discuss iodimetric and iodometric titration in light of redox titration. | (10) | |
| 3. 257 | | Discuss conductometric titration along with its application. | (10) | 257 |
| 4. | | Discuss principal and application of electrodes used in polarography. | (10) | |

| 5. 257 6. | (a) (b) | acid/base. If110.00 ml standardized addition of 25 turn lightpink, | of anaqueous I 0.580M solution | HCI(strong ac of NaOH (str sed the phenol arity of the HCI | | (5) (5) ²⁵⁷ | 25 |
|-------------------------|-------------------|--|---|---|---|------------------------------|----|
| O. | (b) | | | | n-aqueous titration. | (5) | |
| 7. | (a) | = 121.135 g/r | | f tris hydrochlo | g 12.43 g of tris (MW pride (MW = 157.596 | (5) | |
| 257 | (b) | | 1M HCl added to | | lution(a) made, what | ²⁵ (5) | 25 |
| 8. | (a) (b) (c) | Preparation a | n ANY TWO of follows a standardization liby precipitation tite titration. | of sodium hyd | roxide. | (5X2) | |
| 257 | | 257 | 257 | 257 | 257 | 257 | 25 |
| 257 | | 257 | 257 | 257 | 257 | 257 | 25 |
| | | | | | | | |
| 257 | | 257 | 257 | 257 | 257 | 257 | 25 |
| 257 | | 257 | 257 | 257 | 257 | 257 | 25 |
| 257 | | 257 | 257 | 257 | 257 | 257 | 25 |

| TOLA | ai Nuii | nber of Pages: 02 257 257 | 257 | B.Pharma. BP103T | 25 |
|---------------|-------------|--|------------------------|---------------------|----|
| | | 1 st Semester Regular Examination PHARMACEUTICSI | 2017-18 | | |
| | | Branch: B.Pharm | | | |
| | | Time: 3 Hours | | | |
| | | Max Marks: 75 | | | |
| 257 | | 257 Q. Code: B931 | 257 | 257 | 25 |
| | | Answer question No. 1 is compulsory and a | • | t. | |
| | | The figure in right hand margin indica | ates marks. | | |
| 1. | (a) | Answer the following Questions. | - | (2X10) | |
| | i. | What are the techniques used for enhancing the solu agent/drug? | bility of poorly solub | lle | |
| 257 | ii. | What do you mean by displacement value? | | 257 | 25 |
| | iii. | Write two advantages and disadvantages of supposit | = | | |
| | iv. V. | What is the major stability problem related to the susp What is a eutectic mixture? | pension? | | |
| | v. vi. | Write short note: HLB value | | | |
| | vii. | Write in brief on errors in prescription. | | | |
| | viii. | What are the mechanisms of dermal penetration? | | | |
| | ix. | How will you identify w/o and o/w type of emulsion? | | | |
| 257 | х. | Write a short note on syrup. | 257 | 257 | 25 |
| | (b) | Answer following multiple choice questions. | | (1X5) | |
| | i. | Define suspension | | | |
| | ii. | What is a burner and a good of 2 Citys avarages | | | |
| | iii. iv. | What is a hygroscopic powder? Give example. What are the types of emulsion? Give example | | | |
| | ۱۷. V. | Give the meaning of: <i>modo dictum, peros</i> . | | | |
| 257 | ٧. | 257 Dive the meaning of mode dictain, peros. | 257 | 257 | 25 |
| 2. | | Write a note on: Pediatric dose calculation based on a body surface area. Write about the various parts of processing the control of the cont | | nd (10) | |
| 3. | | What are the factors that influence the rectal penetral | tion of drug? | (10) | |
| 4. 257 | | What do you mean by Pharmaceutical incompatibilities suitable examples. 257 257 | es? Classify and giv | e (10) | 25 |
| 5. | | Write short note on: | | | |
| | (a) | Emulsifying agents | | (5) | |
| | (b) | Methods of identification of emulsion | | (5) | |
| 6. | (a) | What are the excipients which are used in liquid dosa | ige forms. | (5) | |
| | (b) | write in brief regarding flocculated and deflocculated | = | (5) | |
| 257 | | 257 257 257 | 257 | 257 | |

Registration No:

| 257 | 7 257 | (a) (b) | Classify powder Write differences betwe | ²⁵⁷ een emulsion and | suspension | 257 | 257 (5) (5) | 257 |
|-----|--------------|---------------------|--|------------------------------------|------------|-----|--------------------|-----|
| | 8. | (a) \(\frac{1}{2}\) | Write a note on factors What is allegation meth | affecting Posolog nod. | jy. | | (5) (5) | |
| 257 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| 257 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| 257 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| 257 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| 257 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| 257 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |

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| Tota | l Nu | mber of Pag | jes: (|)2 | | | | | | | | | | | B.Pharma. |
| 1 st Semester Regular Examination 2017-18 257 PHARMACEUTICAL INORGANIC CHEMISTRY BRANCH: B.Pharma. Time: 3 Hours Max Marks: 75 Q.CODE: B1019 Answer Question No.1 which is compulsory and any five from the retrieve the right hand margin indicate marks. | | | | | | | | | | | | | BP104T 257 st. | | |
| 257 | :\ | 257 | iallau | doa 4 | 257 | iono | | 257 | | | 257 | | | 257 | 257 |
| Q1 | <u>i)</u> a) b) c) e) f) h) i) | Answer the form Define the ter What is Cathar What are elect What is the down What are Expulsion What is a rad Define the ter Define Haemar What is a Mo | m an artics' ctrolyt ifference to cetate ioaction aciatinic | tidote?? tes? (nee beants le moive isolidifiers with | Give en etween used istened istened istened istened ist. Given two en two ent en two e | exampen selfor? ed cot and versexampen sexamples | nple. ole? f life a ton is what a ample | used are th | in the | e Lim | it test | | | 257 | (2 x 10) |
| | <u>ii)</u> | Answer the f | follow | vina (| nuest | ions | | | | | | | | | (5×1) |
| 257 | a) b) | Impurities in p (a) Raw mate (c) Chemical Inorganic anti (a) Oxidation (c) Protein pro | oharm erial instat imicro | naceu pility pbial a ate | itical (b) N (d) A (d) A agent (b) (d) | orepa //anuf .ll of th can b halog | acturi he ab | ng proove ided i on | ocess nto | | follow 257 | ring so | | 257 | 257 |
| | c) d) | In Bronsted-L (a) Proton do (c) Proton acc Latest edition | nor cepte | r | (b) e | electro | on do tron a ooeia. | | er | | | | | | |
| 257 | e) | a) 2010 ²⁵⁷ c) 2007 Antacids are a) Potassium c) Magnesiun | used hydro | for tre | 2b) 2 d) 2 eating b) | 014 2018 J indig Sodii | | droxi | de | | 257 | | : | 257 | 257 |
| Q2 | | Discuss in bri | | | | | | npurit | ies. V | Vrite (| down | the p | • | 257 | (10) |
| Q3 | | Define buffer term Isotonici | | | | | | | | • | • | | | | (10) |
| Q4 | | Mention the n therapy. Wha | - | | | | | | - | | ed in I | replac | ement | | (10) |
| Q5 ₂₅₇ | a) b) | Define dentifrices. Write down the use of Calcium carbonate and Zinc eugenol cement. What do you mean the term desensitizing agents with example? | | | | | | | | | | | 257 | (5) ₂₅₇ | |
| Q6 | a) | Define and cl | | | | | | | | | 1 | | | | (5) |

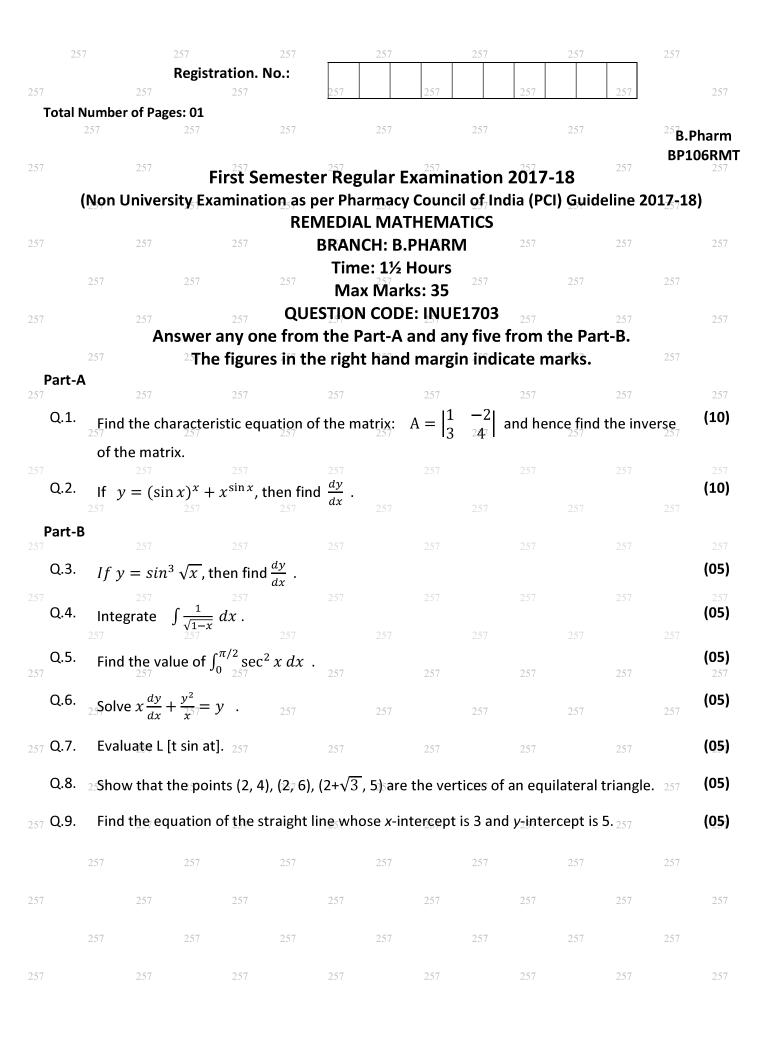
Mention the ideal properties of an antacid. Write a note on combinations of

antacids.

(5)

| | | b) | Write short note on o | astringents w | rith examples. Mer | | | (5) (5) |
|----|-----|----|---|---------------|--------------------|-----|-----|-------------------|
| 57 | 257 | b) | What is meant by ra compound? Write a note on α , β iodide | 257 | 257 | 257 | 257 | (5) 257 (5) |
| 57 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| 57 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| 57 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| 57 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| 57 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| 57 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
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| 25 | | 257 | 257 | 257 | | 257 | 2 | 57 | 257 | |
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| 257 | Registra 257 | ation. No.: | | 257 | 257 | | 257 | 257 | | 257 |
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| 257 | 257 | First Sen | nester | Regular Exa | aminat | ion 20 | 17-18 | 257 | | 257 |
| (1 | Non Universi | ty Examinatio | | _ | | | | uideline 20 | 17-18 |) |
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| 257 | 257 | 257 | BF | RANCH: B.PI | HARM | | 257 | 257 | | 257 |
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| | 257 | 257 | | Max Marks | | 257 | 2 | 57 | 257 | |
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| | | wer any one | | | • | | | | 0.55 | |
| | 257 | ine ligures | пале | right hand n | ııaıgılı i | ишсац | e illai K | 3 , | 257 | |
| Part-/ | 257 | 257 | | 257 | 257 | | 257 | 257 | _ | 257 |
| Q.1. | | you have crea | | 0.55 | | | | | | (10) |
| | petrol, can ir | ncrease the fue | l efficien | cy of cars and | motor-c | cycles by | at least | 30 percent | . You | |
| 257 | are asked to | o make an oi | ral prese | entation of y | our/ new | v invent | tion bef | ore agrou | p of | 257 |
| | industrialists | . Write the scrip | ot for this | presentation | in about | t 150 wo | ords. | | | |
| 0.1 | 207 | 4 1 T O | 23/ :- ((4) | 25 / I: t i - t | · | 25 / : | | 57 | | (10) |
| Q.2. 257 | write in abou | ut 150 words, o | n the sa | 257 | preparii 257 | ng tor in | terview ²⁵⁷ | 257 | | (10) 257 |
| Part-l | B (about 75 w | ords) | | | | | | | | |
| 257 Q.3. | 257 Evalain the d | ifference betwe | an varh | 257 al and non-ver | 257 hal comi | municat | 257 ion with | 257 evamples | | 257 (05) |
| | • | | | | Dai Colli | | | • | 257 | (03) |
| Q.4. | Why is speec | h more effectiv | e than w | riting? | | | | | | (05) |
| 257 Q.5. | What is mean | nt by formal an | d inform: | 257 al style? | 257 | | 257 | 257 | | (05) |
| ۷.5. | | | | | | 257 | 2 | 57 | 257 | (00) |
| Q.6. | What are the | e drawbacks of o | orāľ comi | munication? | | 231 | | 37 | 231 | (05) |
| ²⁵⁷ Q.7. | Discuss the d | ifferent forms of | of writter | 257 n communicat | 257 ion. | | 257 | 257 | | (05) |
| | | | | 257 | | 257 | 2 | 57 | 257 | |
| Q.8. | What are the | e advantages of | 'GD'? | 251 | | 237 | | 51 | 237 | (05) |
| ²⁵⁷ Q.9. | Imagine an ir | nterview you ha | ve faced | and describe | how it w | ent in th | 257 ne first f | ive minutes. | | (05) ⁷ |
| | 257 | 257 | 257 | 257 | | 257 | 2 | 57 | 257 | |
| | | | | | | | | | | |
| 257 | 257 | 257 | | 257 | 257 | | 257 | 257 | | 257 |
| | 257 | 257 | 257 | 257 | | 257 | 2 | 57 | 257 | |
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| 257 | 257 | 257 | | 257 | 257 | | 257 | 257 | F | Page 1 |



1stSemester Back Examination 2017-18 Pharmaceutics - I **B.Pharm 15PH101**

BRANCH : B.Pharma Time : 3 Hours

Max Marks : 100 Q.CODE : B929

Answer Question No.1 and 2 which are compulsory and any four from the rest.

The figures in the right hand margin indicate marks.

| | | i ne figures in the right hand margin indicate marks. | |
|----------|--|--|---------------------|
| Q1 | a) 257 b) c) d) e) 257 f) g) h) i) | Answer the following questions: multiple type or dash fill up type The USP storage condition cool place refers to temp. (°C) a. 8 -15, b. 2-8, c. 25-40, d. 0-4 Tween 20 is a a. preservative, b. surfactant, c. deflocculant, d. none of the above Non aqueous vehicle used in injections is wax/ glycerol/ vegetable oils/ alcohol Dental powder is example of a. simple powder b. bulk powder c. divided powder d.none of the above Parabens are used in syrups as a. Buffers b. Stabilizers c. Preservatives d. thickeners The latest edition of IP is published in the year The literary meaning of the term 'Rx' in English is Particle size range of Fine Powder is An example of Absorption base for ointments is Aspertame, in monophasic liquid dosage forms can be used as . | |
| Q2 | 22a) b) c) d) e) f) g) h) 25i) | Answer the following questions: Short answer type When was the 1 st edition of IP published? Write the full form of BPC What do you understand by the terms b.i.d. and p.c. in a prescription? Write down Fick's 1 st law of diffusion. Write down Young's formula for child dose. Define solution. What is a suspension? Calculate the amount of NaCl required for 500 ml normal saline solution What is dusting powder? What are galenicals? Define elixir. What is collutorium? Define contact angle. | |
| Q3 | a) b) | In what proportion, 10%, 6% and 3% alcohol have to be mixed to obtain 5% alcohol? (solve by allegation process) What is denatured alcohol? Write the composition of simple syrup IP. Define cachets | (10) (5) |
| Q4 | ²⁵⁷ a) b) | Write a note on suppository bases Give one example each of physical incompatibility, chemical incompatibility and therapeutic incompatibility in a prescription. | (10) (5) |
| Q5 | a) b) | Write a note on stability problems of emulsions and possible methods to overcome those Differentiate between flocculated suspension and deflocculated suspension. | (10) (5) |
| Q6 Q7 | a) a) b) | Write an elaborate note on the four types of ointment bases Write a note on different factors affecting posology. What is cap locking problem in syrups? How can it be overcome? | (15) (10) (5) |

| 257 | Q8 | _{2:} a) b) | Write a note on solubility Give a detailed description three methods to identify | on of different | types of emuls | liquid dosage form ifying agents. Enlis | s. ₂₅₇ | (10) (5) | 257 |
|-----|----|------------------------|--|-----------------|-----------------|--|-------------------|-------------|-----|
| | Q9 | a) | What are the different type brief note on any one of | them. | | | | (10) | |
| | | b) | Write a brief note on garger preparations. | garisma. Nan | e a preservativ | e used in opntnalm | IIC | (5) | |
| 257 | | 257 | 257 | 257 | 257 | 257 | 257 | | 257 |
| 257 | | 257 | 257 | 257 | 257 | 257 | 257 | | 257 |
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| 257 | | 257 | 257 | 257 | 257 | 257 | 257 | | 257 |
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| Registration no: | | | | | |
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Total Number of Pages: 02

257 **B. PHARM** 257 **15PH102**

1st Semester Back Examination 2017-18 INORGANIC PHARM CHEMISTRY

Branch: B.Pharma Time: 3 Hours Max marks: 100

Q. CODE:B1012

Answer Section 'A' which is compulsory and any Four from Section 'B'. The figures in the right hand margin indicate marks. Section A

Q1 Answer the following questions:

(2x10)

- a) Nitrous oxide is (a) analgesic (b) anaesthetic (c) both (a) and (b) (d) none of these.
- **b)** ZnO is used as (a) protective (b) astringent (c) both (a) & (b) (d) antidote.
- c) Sterile water for injection may be stored in (a) Type 1 (b) Type 2
 - (c) Both (a) and (b) (d) Type 3.
- d) In Bronsted-Lowry concept acid is (a) proton donor (b) electron donor (c) proton accepter
 - (d) electron accepter.
- e) Impurities in pharmaceutical preparation may be due to following sources:
 - (a) Raw material (b) Manufacturing process (c) Chemical instability
 - (d) All of the above
- f) Oxygen requirement in the body can be classified into four major divisions.
 - (a) Anoxic (b) Stagnant (c) Anemic (d) All of these
- g) Hydrogen peroxide is used as (a) antiseptic (b) acidifying agent (c) protective
 - (d) Suspending agent.
- **h)** Fluoride inhibits caries formation via (a) ↓ acid solubility of enamel (b) bacterial inhibition (c) both the above (d) ↑ acid solubility of enamel.
- i) AgNO₃ is categorizes into (a) oxidative antimicrobial agent (b) halogenated antimicrobial agent (c) protein ppt. antimicrobial agent (d) all of the above.
- j) Permanent hard water may be softened by (a) addition of soluble carbonate (b) polyphosphate chelation (c) zeoolite₂(d) all of the above.

Q2 Answer the following questions:

(2x10)

- a) What is the role of Nitric acid in limit test for Chloride?
- **b)** What is Antiflatuent agent & reflux suppressants?
- c) Define buffer solution & buffer capacity?
- d) Mention the units of radio activity.
- Define sedative? Give example.
 - f) Mention the storage and uses of dry ice.
 - g) What is the WHO composition of ORS?
- h) What are inhalants & respiratory stimulants?
- i) Write the principle of the limit test for Iron?

j) What are the precautions taken for handling of radiopharmaceuticals.

| 2 | 257 | 257 Section ₂ B 257 257 | |
|-----------|-----|--|-------------|
| Q3 | a) | Define antiseptic & disinfectant with suitable examples. Mention the mechanism action of anti-microbial agents. Write down the properties & uses of Potassium permanganate and lodine. | (10) |
| | b) | Write short notes on: i) Expectorant ii) Limit test of sulphate | (5) |
| Q4 | - | Describe briefly the limit test for arsenic with a neat labeled diagram. Write a note on sources of impurities in pharmaceuticals. | (10) (5) |
| Q5 | a) | Define antacid? Classify it. Write down the ideal characteristics of an | (10) |
| | b) | antacid. Write briefly about the combination of antacids. Write down the preparation & properties of Aluminium hydroxide gel & Magnesium trisilicate. | (5) |
| Q6 | a) | Describe about the measurement of radioactivity. Explain the design & | (10) |
| | b) | construction features of GM Counter? Write a note on antioxidant with suitable examples. | (5) |
| Q7 | - | Write short notes on: i) Antidote ii) Anticaries agent. Define cough? Explain the mode of action of Emetics. | (10) (5) |
| Q8 | a) | Explain in details about the physiological acid base balance & the | (10) |
| 2 | b) | electrolytes used for replacement therapy. 257 Write the role of Oxygen in biological system. | (5) |
| Q9 | a) | What are protein precipitants? How they show their activity? Write | (10) |
| | b) | preparation & uses of Alum. Write down the preparation & uses of Hydrogen peroxide & Boric acid. | (5) |

| | | | | 1 | _ | , , , , , , , , , , , , , , , , , , , | | Ī | 1 | 1 | ı | 1 | | |
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| Reg | istra | ation no: | | | | | | | | | | | | |
| Total Nu | mbe | er of Page | | | | | | | _ | | | 1 | | .Pharm 5PH103 |
| 257 A 1 | | er Questic | 7 | and 2 ' | BRAN Ti Ma Q. whicl | HAI NCH : ime: 3 ix mai CODE h are | P- I ² B.Pl Hou rks: ' E: B8 com | narm Irs 100 329 pulse | a ory a | and a | 257 | | ²⁵⁷ n the rest | 257 |
| Q1 ²⁵⁷ | a) b) c) d) e) | Answer t Formation Mitochone Lysosome Skin is co Phagocyt | he follow of RBC dria is ca e is called mposed osis is al | ving quite is called as_d as_d ofs | uestioned as_ | ons: | · | | | | 257 | | 257 | (2x10) |
| 257 | f) g) h) i) | O ₂ carryin CHF stañ Normal he There are Normal ha | eart rate | of huma | an is_ pes of | f tissue | e in hu | uman | | | 257 | | 257 | 257 |
| Q2 | d) | Answer to What is the Mention to What is more what is the What is the Mention to the What is the What | e functione function totor end totor end | on of nu on of co plate? on of Pla | icleus' onnect ²⁵⁷ atelets | ? tive tis: s? | sue. | enter | nces. | | 257 | | 257 | (2×10) |
| | e) f) g) h) i) | What is m What is h Mention t Which blo Write vari Write the | ypertens ne compo od group ous func | ion? osition of is calle tions of | of lym ed as skele | ph. univer tal sys | sal do | | , | | | | | |
| Q3 | a) b) | Describe Mention s | | • | • | | • | | | | | | 257 | (10) (5) |
| Q4 | a) | Describe | about va | rious ty | pes o | f joints | with | suita | ble e | xamp | les. | | | (10) |
| | b) | Write a sh | ort note | on vari | ous jo | int disc | order | s | | | | | | (5) |
| Q5 ⁵⁷ | a) b) | Describe | | | | | | | its el | lemer | n ts | | 257 | (10) ⁵⁷ (5) |

Describe the structure and function of spleen with labelled diagram

Write the process of blood coagulation

Q6

a)

b)

(10)

(5)

| | Q7 a | n) Draw a blood. | neat labelled dia | gram of heart and | d describe in deta | ail about circulatio | on of (| 10) |
|-----|------|------------------|---|-------------------|--------------------|----------------------|---------|------------|
| | b | | short note on vari | ous cardiovascul | ar diseases. | | | (5) |
| 257 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| | Q8 a |) diagram | osseous system n. short note of Blo | | ure and function | with a neat labell | ed (| 10) (5) |
| 257 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| 257 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| 257 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
| 257 | 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
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| Reg | istra | tion No: | |
|-------------|----------|--|--------|
| Tota | al Nu | mber of Pages: 02 B.Pharm 257 257 257 257 257 257 25715PH104 | 257 |
| 'A r | nswe | 1 st Semester Regular / Back Examination 2017-18 COMMUNICATIVE ENGLISH BRANCH: B.Pharma Time: 3 Hours Max Marks: 100 Q.CODE: B737 r Question No.1 and 2 which are compulsory and any four from the rest. The figures in the right hand margin indicate marks. | 257 |
| Q1 | | Fill up the blank spaces in the sentences below : | (2x10) |
| | a) | The English we speak is often not understood because there is | |
| | b) | Type-3 Conditional clause is known as | |
| | c) | In wh-questions, tone suggests greater involvement and friendliness on | |
| 257 | d) | the speaker's part. A syllable is a word or a part of a word that contains | 257 |
| | • | | |
| | e) | Odia, Hindi etc. are called timed language. The code which is commonly used for communication between human beings is | |
| | f) | known as . | |
| | g) | The quality that allows languages to carry more information than is needed to | |
| | 9/ | compensate for information loss during communication is known as | |
| | h) | rule enable us to communicate different kinds of meanings by attaching | |
| 257 | - | meanings to words. | 257 |
| | i) | is the accent adopted by educated speakers of English living in and | |
| | | around London. | |
| | j) | The variety of language used by the members of a particular profession is called | |
| | | · | |
| Q2 | | Answer the following questions: | (2×10) |
| QZ | a) | Put the correct form of verbs in the following sentences. (Fill up, Fill out). | (2~10) |
| 257 | ω, | i) this application form and mail it in. | 257 |
| 231 | | ii) He the grocery cart with free commodities. | 257 |
| | b) | Hansikais resembling her mother. (Correct the error.) | |
| | c) | "Give me a glass of water". (Put the intonation.) | |
| | d) | The present tense is always used to refer to actions that take place in the present | |
| | | time. (True or False) | |
| | e) | Find out the Consonant Cluster of the following words. | |
| | £/ | Sky, Spell, School, Snatch | |
| 257 | f) | Convert the following words into IPA symbols. | 257 |
| | g) | Yesterday, Judge I (work) here for five years. (Put the correct verb form.) | |
| | 9) h) | What is Feedback? | |
| | i) | Write the British alternative of the following words. | |
| | , | Hungry, Cookie | |
| | j) | Change the voice of the following sentences. | |
| | | i) Who wrote this book? | |
| 257 | | ii) Have you finished work? 257 257 257 | 257 |

| Q3 | a) b) | What is Intonation? Why is it important in oral communication and how does it create rapport between a speaker and a listener? Explain with examples. Explain Stress variation with examples. | (10) (5) |
|-------------------------|----------|--|---------------------|
| Q4 ₇ | a) b) | What are the advantages and disadvantages of Oral communication? Distinguish between Old and New Information. How do they act upon the receiver? | (10) (5) |
| Q5 | a) b) | What is a Syllable? Write the formula and different structures of syllable division with examples. What do you understand by Event verb? Discuss with example. | (10) (5) |
| Q 6 ₇ | a) b) | Explain the different types of Spoken English and their regional usage. Written communication is context-independent. Justify. | <u>(</u> 10) (5) |
| Q7 | a) | Explain the difference between Time and Tense with suitable examples. | (10) |
| | b) | Mark Stress and Intonation in the following sentences. i) Have you heard that word before? ii) The weather is wavering. | (5) |
| 257 | | iii) Get me a glass of water. 257 257 257 v) How did he dare to abuse you? v) The results are out? | 257 |
| Q8 | a) | "All communication should be people-oriented". Justify your answer with suitable | (10) |
| QU | - / | | ` ' |
| QU | b) | example. What is Filler word in communication? Discuss with examples. | (5) |
| 257 Q9 | - | example. What is Filler word in communication? Discuss with examples. 257 257 257 257 257 257 Contrastive Stress has been shown in bold letters in the following utterances. Write the intended meaning of the speaker in each utterance. i) I don't think he should get the job. ii) I don't think he should get the job. iii) I don't think he should get the job. iv) I don't think he should get the job. | |
| 257 | b) | example. What is Filler word in communication? Discuss with examples. 257 257 257 257 257 257 Contrastive Stress has been shown in bold letters in the following utterances. Write the intended meaning of the speaker in each utterance. i) I don't think he should get the job. ii) I don't think he should get the job. iii) I don't think he should get the job. | (5) |

| Regi | istra | ration No: | | |
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| 257 | | 257 . 257 . 257 . 257 | 15PH105 ₅₇ | , |
| | | 3 rd Semester Regular/Back Examination 2017-18 REMEDIAL BIOLOGY | | |
| | | BRANCH : B.Pharma | | |
| | | Time : 3 Hours | | |
| | | Max Marks : 100 Q.Code : B1239 | | |
| 257 | Ans | swer Question No.1 and 2 which are compulsory and any four from | om the rest. | , |
| 257 | | The figures in the right hand margin indicate marks. | 257 257 | |
| Q1 | | Chose the correct answer : | (2x10) | |
| | a) | Which of the following is not a simple tissue | | |
| | | a. xylem | | |
| | | b. Parenchyma | | |
| 257 | | c. Collenchyma 257 d. Sclerenchyma | 257 257 | |
| | b) | • | | |
| | , | a. Tap root | | |
| | | b. Fibrous root | | |
| | | c. Adventitious root | | |
| | | d. Nodular root | | |
| 257 | c) | Which meristem is present at the base of leaves or internodes on twigs a. Apical Meristem | 257 257 | |
| | | b. Cambium | | |
| | | c. Intercalary Meristem | | |
| | | d. Epidermis | | |
| | d) | Disease caused by Entamoeba histolytica | | |
| 257 | | a. Amebic Dysentry | 257 257 | , |
| | | b. Bloody diarrhoea c. Amebiasis | | |
| | | d. All the above | | |
| | e) | | | |
| | , | a. Sporozoites | | |
| | | b. Merozoites | | |
| 257 | | c. Both ₂₅₇ ₂₅₇ ₂₅₇ ₂₅₇ | 257 257 | |
| | | d. None of the above Fill in the blanks | | |
| | Ð | | | |
| | f) | Reticulate and parallel venation are characteristics ofandrespectively | | |
| | g) | and are the types of food and feeding Amoeba. | tound in | |
| 257 | h) | Types of Asexual reproduction found in Amoeba are257 and | <u>257</u> 257 | |
| | i) | The placenta attached to developing seed near | | |
| | i) | Examples of modified undergroung stems are and | | |

| Q.2 | | Answer the following | | | | | (2x10) |
|-------------|----|---|------------------------|---------------------|-------------------|------------|-----------------------------|
| | a) | What is phyllotaxy? | | | | | |
| | b) | Name the disease caus | ed by <i>taeniasag</i> | inata | | | |
| 257 | c) | What do you mean by p | arthenocarpy? | 257 | 257 | 257 | 257 |
| 237 | d) | What do you mean by e | pigynous flower | ? | 231 | 231 | 201 |
| | e) | Name the different stage | es of cell division | on in plants | | | |
| | f) | Why lysosomes is called | d as suicidal baç | gs? | | | |
| | g) | Outline any two modes | of control of mal | laria. | | | |
| | h) | What is the function of N | Mitochondria? | | | | |
| 0.55 | i) | Give two examples of p | arallel venation | 0.55 | 0.55 | 0.57 | 0.55 |
| 257 | j) | What do you mean by Z | Zygomorphic. | 257 | 257 | 257 | 257 |
| Q.3 | a) | Explain the structure an | d life cycle of Si | lkworm with its e | conomic imports | nce | (10) |
| ۵.0 | b) | Define Exo-erythrocytic | • | | | | (5) |
| | ω, | Define Exo cryanocytto | priase of malan | a with diagram | | | (0) |
| Q.4 | a) | Describe different modif | ied Root system | n with examples | | | (10) |
| 257 | b) | Write shortly about Leaf | venation with s | uitable examples | 257 S | 257 | (5) 257 |
| | | · | | • | | | |
| Q.5 | a) | Write the difference be with diagrams. | tween Mitosis a | and miosis.expla | in the Miotic cel | l division | (2+8) |
| | b) | Describe the distinguish | ing characterist | ics of family Lilia | ceae | | (5) |
| - 057 | | - 057 | 057 | 957 | 057 | 057 | |
| Q.6 | a) | Describe in details abou | • | | - | c acids. | (10) ²⁵⁷ |
| | b) | Write shortly about plan | t hormones and | their importance | 9 | | (5) |
| Q.7 | a) | Explain Briefly about the | e Life cycle of Tr | vpanosoma with | suitable diagra | m | (10) |
| ٠ | b) | Write details on Locomo | • | ypanooonia mii | canazio diagia | | (5) |
| | ~, | Trine details on 2000ing | | | | | (0) |
| Q .8 | a) | Distinguish between far Characteristics(with diagramily | | | | | (8+2) ²⁵⁷ |
| | b) | Distinguish between T. | S of Monocot ar | nd dicot Stem wit | h diagram | | (5) |
| Q.9 | | Write notes on any TH | REE: | | | | (5×3) |
| 257 | a) | Mitosis | | 057 | 057 | 257 | • • |
| 201 | b) | Lysosomes | 257 | 257 | 257 | 257 | 257 |
| | c) | Chloroplast | | | | | |
| | d) | Double Fertilization | | | | | |
| | , | | | | | | |
| | | | | | | | |
| 257 | | 257 | 257 | 257 | 257 | 257 | 257 |
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| 257 | | ²⁵⁷ 1 | l st Se | emes | REN E | Ma: Q.C | AL MICH: me: x Ma CODE n are | ATH B.P 3 Ho rks : E : B1 | xam EMA harm urs 100 1240 ipuls | TICS na ory a | and a | ıny fo | our from th | 15PH10 6 ₅7 |
| Q1 | a) | Answer the | follov | ving (| quest | tions | : | | | | il Cat | , iliu | iks. | (2 x 10) |
| 257 | b) | State the order i) The median ii) The mode | er of h | [a b ne ser | <i>c</i> ies 1, | d] =_ 3, 2, | 8, 6 i | (1x s ²⁵⁷ | (4,4x1 | | | | 257 | 257 |
| | d) e) | If $\cos \alpha = \frac{3}{5}$, $\cos \alpha$ the value of α . The equation | cos(α- n of a | β)= <u> </u> | pass | sing t | _(<u>63</u> , hroug | jh the | poir | | ,-7) a | nd pa | arallel to x- | |
| 257 | | axis= | _ | (y+7 | 7=0,y- 257 | -7=0,x | (+7=0 | ,x-7= ²⁵⁷ | 0) | | 257 | | 257 | 257 |
| | f) g) | The equation Slope - 4 is _ (4x+y=24,4x-16) $\lim_{x\to 2} \frac{x^4-16}{x-2}$ | y=24 | ,-4x+y | /= 0,-4 | | | he po | int (5 | ,4) an | id hav | ving | | |
| 257 | h) i) | Find the diffe $\int_{-\pi}^{\pi} cosxdx =$ | | | 201 | | tanx _W | viţţ _y re | espec | t to x. | 257 | | 257 | 257 |
| | j) | Evaluate:∫ x | xe ^x dx | ε. | | | | | | | | | | |
| Q2 257 | a) b) c) d) e) f) g) | Answer the frind two consumptions of the value Find the distance of the consumption of th | secutular manden and and and and and and and and and an | ive na latrix i d give in75 betwe nts (-2 | atural and g one o | numb ive or exam e poir | ers where example. | hose ample (-3, 7) | prode?) and | uct is Q (-1 | 257 | | 257 | (2 x 10) 257 |
| 257 | h) i) j) | Differentiate $\frac{1}{\sqrt{x}}$ Evaluate: $\int \frac{1}{\sqrt{x}}$ | $\frac{x}{a} dx$ | • | esped | ct to c | osx. | 257 | | | 257 | | 257 | 257 |

Q3 a) Prove that
$$\begin{vmatrix} 1 & 1 & 1 \\ a & b & c \\ a^2 & b^2 & c^2 \end{vmatrix} = (a-b)(b-c)(c-a)$$

257 b) Solve: $9x_7^4 + 20 = 29x_2^2$
257 257 257 (7)

Q4 a) Find the inverse of the matrix
$$A = \begin{bmatrix} 3 & -3 & 4 \\ 2 & -3 & 4 \\ 0 & -1 & 1 \end{bmatrix}$$

b) Solve: $4x^4 - 4x^3 - 7x^2 - 4x + 4 = 0$, $x \ne 0$. (8)

Q5 Compute the mean, median and mode of the following frequency distribution: (5+5+5)

| Wages (in Rs.) | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 |
|------------------|-------|-------|-------|-------|-------|
| No. of labourers | 22 | 38 | 46 | 35 | 20 |

Q6 a) Show that
$$(1+\cot A-\csc A)(1+\tan A+\sec A)=2$$
 (5)
b) If $a\cos\theta+b\sin\theta=p$, $a\sin\theta-b\cos\theta=q$, (5)

prove that $a^2 + b^2 = p^2 + q^2$

c) Find the Value of $\sin 18^0$ (5)

- **Q7 a)** The four vertices of a quadrilateral are (1, 2), (6, 2), (5, 3) and (3, 4), find the area of this quadrilateral.
 - b) Find the equations of the altitudes of the triangle whose vertices are A(6,- (7) 1),B(-3,8) and C(3,2)

Q8 a) Evaluate:
$$\lim_{x\to 0} \frac{2^{x}-1}{\sqrt{1+x}-1}$$
 257 257 (5)

b) Find
$$\frac{dy}{dx}$$
 if $y = (3 - x^2)(x^3 - x + 1)$ (5)

c) Find
$$\frac{dy}{dx}$$
 if $y = log log x$ (5)

Q9 a) Evaluate:
$$\int_{257}^{e^x - sinx} dx$$
 257 257 257

b) Solve:
$$\int x \sin \frac{x}{2} dx$$
 (5)

c) Solve:
$$\int \frac{6x+7}{(x+2)^2} dx$$
 (5)

257 257 257 257 257 257 257

257 257 257 257 257 257 257 257

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| 257 257 | | 257 | 1 st Se | 1 _{.5} wh | REME BRAI Ti M Q. | DIAINCH: ime: ax M Code s coi | L BIC B.PI B Hou arks e: B1 npul | harm urs :70 238 sory | and | any ' | five 1 | | 257 the re | | PH.1.11 57 |
| Q1 | a. b. | Answer the 1 Name the diff conditions. Write down th | ferent asex | kual m | nethod | d of re | • | | | moeb | a und | ler un | ı-favora | able | (2×10) |
| 257 | c. d. e. f. g. h. i. j. | What are the Write the diffe Enumerate di Write the fund What are diffe What is phylle Give any two Write any two | functions erence bet ifferent type ctions of Perent types otaxis. | of Go ween es of lasma s of v | lgi ap Xyler inflore a men ectors | paraten and and and and and and and and and an | us. ₇ I <i>phlo</i> ice in e. Malari c flow <i>niasa</i> | e <i>m</i> flowe apara | ering p asite. | ction. | | | 257 | | 257 |
| 257 Q2 | | Describein de | etails abou | t the | life hi | story | of Pla | asmo | dium | ²⁵⁷ withn | ecess | sary c | 257 diagram | ٦. | (10) |
| Q3 | | Describe brie | fly about | differ | ent m | odifie | d roo | t syst | ems v | with e | xamp | les. | | | (10) |
| Q4 | a. b. | Describe the Write briefly a | • | _ | | | | | | | • | | | | (5) (5) |
| Q5 7 | a. b. | Describe abo Discuss abou | = | | | | | odiun | n Falc | ²⁵⁷ ciparu | ım. | | 257 | | (5) 257 (5) |
| Q6 | a. b. | Distinguish to Tap root and Reticulate an | adventitio | us roc | | | | | | | | | | | (5) (5) |
| Q7 257 | a. b. | What is the d Describe sho | | | | | | | | • | | | 257 | | (5) (5) ²⁵⁷ |
| Q8 | a. b. c. | Write ANY To Lysosomes Mitosis Apical meristo | | note | S | | | | | | | | | | (5×2) |
| 257 | | 257 | | 257 | | | 257 | | | 257 | | | 257 | | 257 |

| Regis | tration No: | |
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| Total | Number of Pages: 02 | B.Pharm PH.1.13 |
| 257 | 1 st Semester Back Examination 2017-18 REMEDIAL MATHEMATICS BRANCH: B.Pharma Time: 3 Hours Max Marks: 70 Q.CODE: B1237 Answer Question No.1 which is compulsory and any five from the The figures in the right hand margin indicate marks. | 25 rest. |
| 257 04 | | 257 25 |
| Q1 a | Answer all questions: a) $ \begin{bmatrix} 5 & 0 & 5 \\ 1 & 2 & 1 \\ 1 & 2 & 3 \end{bmatrix} $ Find the value of the determinant | (2 X 10) |
| k | Find 2A + I where A = $\begin{pmatrix} -2 & 1 \\ 3 & 4 \end{pmatrix}$ and I = $\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$ | |
| | Define median. Evaluate: $\cos 2\Pi/3 \cos \Pi/4 + \sin 2\Pi/3 \sin \Pi/4$ | 257 25 |
| f 9 | Find the value of the following trigonometric ratios. (i) $\sin 210^{\circ}$ (ii) $\cos 315^{\circ}$ Find the area of triangle whose vertices are A(6,3),B(-3,5) and C(4,-2) Determine the equation of a line passing through the point (-4,-7) and paralle to x-axis. Evaluate: $\lim_{x\to 0} \frac{3^{x}-2^{x}}{\tan x}$ | 257 25 |
| i | Find $\frac{dy}{dx}$ if $y = (3 - x^2)(x^3 - x + 1)$ | |
| j | Evaluate $\int \frac{2x^3 + 3x - 7}{x^{2/3}} dx$ | |
| 257 | | 257 25 |
| Q2 a | Solve the simultaneous equations 2x + y = 10 and 3x - y = 5 by using Cramer's rule | (5) |
| t | If $\Delta = \begin{bmatrix} 3 & 8 & 7 \\ -4 & 5 & 6 \\ 7 & 3 & -8 \end{bmatrix}$ Find the minors & co-factors of the elements in the second column. Hence, expand Δ to find its value. | (5) |
| 257 | 257 257 257 257 257 2 | 257 25 |
| 257 Q3 a | a) Find the the Median of the distribution given below. Class Interval: 0 - 10 | (5) |

- Q4 a) (5)
- Find the value of $sin15^{0}$ and $cos15^{0}$. Show that: $\frac{tanA+tanB}{tanA-tanB} = \frac{sin (A+B)}{sin (A-B)}$ (5) b)
- Q557 a) Prove that $(1 + \cot A - \csc A)(1 + \tan A + \sec A) = 2$ (5)
 - Find the equations of the medians of a triangle ABC, the co-ordinates of (5) whose vertices are A(-1,6), B(-3,-9) and C(5,-8)
 - Q6 Four points A(6,3),B(-3,5),C(4,-2) and D(x,3x) are given in such (5)

a way that $\frac{\text{Area of triangle DBC}}{\text{Area of Triangle ABC}} = \frac{1}{2}$, find x. Show that the quadrilateral with vertices (2, -2), (8, 4), (5, 7) & (-1, 1) is a

- b) (5) rectangle
 - Find $\frac{dy}{dx}$ where x = a(t + sint) and y = a(1 cost). Q7 (5)
 - b) if $y = \sqrt{\log x + \sqrt{\log x + \sqrt{\log x + \cdots \infty}}}$ (5)
- Show that $(2y-1)\frac{dy}{dx} = \frac{1}{x}$
 - (5)
 - **a)** Evaluate $\int \frac{x^3}{(x-1)(x-2)(x-3)} dx$ **b)** Solve $\int \frac{5x-3}{(x+1)(x-3)} dx$ (5)

| Registration No: | | | | | | | | | | | | | |
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| | | | | | | | _ | | | | | | |
| 257 | 257 1s ^t Semester Back Examination 2017-18 257 Pharmaceutics - I (Dispensing & Community Pharmacy) | | | | | | | | | | | 257 | |
| | | Phai | rmaceutic | | (DISP | | | | | iity F | marr | nacy) | |
| | | | | • | | me: 3 | | - | ıa | | | | |
| | | | | | | ax Ma | _ | | | | | | |
| | | | | | | COD | | _ | | | | | |
| | | Answer Que | estion No | .1 wh | • | | | | and | anv i | five f | rom the re | est. |
| 257 | Answer Question No.1 which is compulsory and any five from the rest. 257 257 The figures in the right hand margin indicate marks. 257 257 | | | | | | | | | | | | |
| Q1 | | Mark the cor | rect option | ١. | | | | | | | | | (2 x 10) |
| | a) | Glycerin supp | - | | 92% | glycer | in and | d are | solidif | ied by | the u | ise of | , , |
| | | (1) White | | | | | | | | | | | |
| | | \ / | ic Acid | | | | | | | | | | |
| | | \ / | ım Stearate | ! | | | | | | | | | |
| 257 | | (4) PEG | | _257 | | | 257 | | | 257 | | 257 | 257 |
| | h۱ | (5) Glyce Aromatic elixi | eryl triacetat | e | | | | | | | | | |
| | b) | | atic flavorin | a ane | nt | | | | | | | | |
| | | ` ' | ge spirit | y aye | 111 | | | | | | | | |
| | | | palcoholic s | oluble | arom | atic c | oamo | unds | | | | | |
| | | | of the abov | | | | | | | | | | |
| | c) | Syrup USP co | | | ose a | nd has | s a sp | ecific | gravi | ty of 1 | .313. | Express | |
| 0.57 | | the concentra | ation of sucr | ose ir | term | s of % | w/w | | _ | 0.57 | | | 0.57 |
| 257 | | (1) 55% | | 257 | | | 257 | | | 257 | | 257 | 257 |
| | | (2) 65% | | | | | | | | | | | |
| | | (3) 75% | C\ | 1 - 4 | | .4 | ـ حال حا | | -1-4- | | | | |
| | d) | (4) 85%(5) Which of the | 5) Impossib | | | | | _ | | ro2 | | | |
| | u) | (1) Levig | • . | Jerauc | וו פו ווע | οι αμ | JIICabi | ie to p | owue | 15! | | | |
| | | (2) Tritura | | | | | | | | | | | |
| | | | ılation | | | | | | | | | | |
| 257 | | (4) Resol | | 257 | | | 257 | | | 257 | | 257 | 257 |
| | | (5) Pulve | erization | | | | | | | | | | |
| | e) | A prescription | | _ | • | | | | | _ | | o make 3 | |
| | | fluid ounces. | | will co | ontain | appro | ximat | ely 1/ | 30gr. | of dig | oxin? | | |
| | | (1) 5 min | | | | | | | | | | | |
| | | (2) 4 min (3) 8 min | | | | | | | | | | | |
| | | (4) 10 mi | | | | | | | | | | | |
| 257 | | (5) 6 min | | 257 | | | 257 | | | 257 | | 257 | 257 |
| | f) | The term disp | | alue i | s relat | ed to | with t | he pre | epara | tion of | : | | |
| | • | (1) Table | | | | | | • | • | | | | |
| | | (2) Capsi | | | | | | | | | | | |
| | | (3) Ointm | | | | | | | | | | | |
| | | ` ' | ository | | | | | | | | | | |
| | ٠١ | (5) Inject | | 41 | _ i: e | - 9 | . 4 | . | | | | | |
| 257 | g) | Given below (emulsion of d | | | | | | | prep | aring 257 | prima | ry ₂₅₇ | 257 |
| | | (i) A. 1:2 | | (1-17). | ivialU | ı uı c ıl | LOUIT | oouy. | | | | | |
| | | (ii) A. 1.2 (ii) B. 2:2 | | | | | | | | | | | |
| | | (iii) C. 3:2 | | | | | | | | | | | |
| | | (iv) D. 4:2 | | | | | | | | | | | |
| | | (v) E. 2:1 | :2 | | | | | | | | | | |

| | h) | Determination of iodine value depends upon (1) Substitution with iodine for the hydrogen in the fatty acids (2) Addition of iodine at the double bond of fatty acids (3) Oxidations of the fatty acids by iodine | | | | | | |
|--------------------------|----|--|------------------|--|--|--|--|--|
| 257 | i) | (4) Analysis of the iodine content of a fatty acid Which form of sulfur should a pharmacist use when extemporaneously preparing an ointment? (1) Cake of sulfur (2) Flowers of sulfur (3) Precipitated sulfur (4) Sublimed sulfur | 25 | | | | | |
| 257 | j) | Lassar's paste is (1) Zinc oxide ointment (2) Zinc oxide paste (3) Zinc oxide paste with salicylic acid (4) Benzoic acid with salicylic acid ointment | 25' | | | | | |
| Q2 | | What are suppositories? What are the various types of suppositories? What is displacement value? Enlist the advantages and disadvantages of the various bases used in the preparation of suppositories? | (1+2+2+5) | | | | | |
| Q3 ²⁵⁷ | | Describe about the principle involved and preparation techniques for the following dosage form. i. Emulsions ii. Solutions iii. Effervescent Powder iv. Creams v. Suppositories | (2+2+2+2+2) | | | | | |
| Q4 ²⁵⁷ | | What do you mean by incompatibility? Describe in detail about physical, therapeutic and chemical incompatibility with relevant examples. | (10) 25 | | | | | |
| Q5 | a) | How many mg of sodium chloride should be present in the following formula to obtain an isotonic solution? (E value of cocaine hydrochloride is 0.16) Cocaine Hydrochloride 2% Sodium chloride q.s. | | | | | | |
| 257 | | Purified water q.s. 30 mL 257 257 257 257 | 25 | | | | | |
| | b) | How many grams of 2% aluminum paste must be mixed with 10% aluminum paste to prepare exactly 120 g of 5% strength? | (5) | | | | | |
| Q6 | a) | Define prescription and enlist the points that are mentioned in a typical prescription. Write down the English translation of the following Latin terms. i. b.i.d. | (2.5+2.5) | | | | | |
| 257 | | ii. aa. 257 257 257 257 257 257 257 257 257 257 | 25 | | | | | |
| 257 | b) | Define the following terms. i. Posology ii. ED50 iii. LD50 iv. Therapeutic Index | (2+1+1+1) | | | | | |
| Q7 | a) | Write about the classes of extractive preparations and the principle involved in | (5) | | | | | |
| | b) | each with examples. What are galenicals? What are the three forms of extracts? Mention examples. | (2+2+1) | | | | | |
| 00 | ~) | | , | | | | | |
| Q8 | | Differentiate between lotion and liniments. | (10) | | | | | |

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Total Number of Pages: 01

B.Pharma.
PH.1.7

1st Semester Back Examination 2017-18 PHARM, CHEMISTRY₂₅ I (INORGANIC) BRANCH: B.Pharma.

Time: 3 Hours Max Marks: 70 Q.CODE: B1018

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

| Q1 ²⁵⁷ a) b) c) d) e) f) 257 g) h) i) j) | Answer the following questions: Define astringent. Define antidote, mention one example with its molecular formula. What is a Sclerosing agent? What do you mean by emetics? Write down the structure of sodium potassium tartrate. Write on anti-infective agents. What is the haematinics? Define acidifying agents with examples. Define buffer solution? What are filter aids with example? What do you mean by physiological acid base balance? Explain. | 1 (2 x 10) | 257 257 |
|--|---|-----------------|------------|
| Q2 | What are transition elements and their compounds of pharmaceutica importance? | il (10) | |
| Q3 :57 | Define the term suspending agents. Classify the preservatives with example Mention the methods of obtaining their standards and units of activity or radiopharmaceuticals. | | 257 |
| Q4 | Write down the composition of ORS as per WHO guidelines. What are major intra and extra cellular electrolytes? | r (10) | |
| Q5 | Define anticaries agents. Mention the role of fluorides in the treatment of dental carries. | f (5+5) | 257 |
| Q6 | Define the term half life of a radioisotope? Write a note on $\alpha,\ \beta$ and γ radiation. | y (5+5) | |
| Q7 | Define the term anaesthetics with examples. Mention their mechanism of action. Define and classify respiratory stimulant with examples. | f (5+5) | |
| Q8 ₂₅₇ a) b) c) d) | Write short answer on any TWO: Antidotes. Nuclear radiophaermaceuticals Anti oxidants Irritant purgatives | (5 x 2) | 257 |

| Tota | al num | nber of pages: 01 | B. Pharm. |
|----------|-----------------------------------|--|------------------------------|
| | 257 | 1st Semester Back Examination 2017-18 PHARMACOGNOSY - I BRANCH: B.Pharma Time: 3 Hours Max Marks: 70 Q CODE: B1091 Answer question No. 1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks. | PH1.9 ⁵⁷ |
| Q1 | i) ii) iii) iv) v) vii) viii) ix) | Objective type questions Define chemo-microscopy with suitable examples. Define stomatal index. Write down a chemical test for qualitative detection of reducing sugar. Define secondary metabolites with examples. Write down the biological sources of cod liver oil and wool fat. How would you qualitatively detect alkaloids in a crude specimen? Write down the biological source and uses of isabgol. Define the termpolyploidy. What is pectin? Write down the names of principle chemical constituents present in castor oil. | (2x10) |
| Q2 Q3 | 257 | Explain various methods of evaluation of crude drugs. Write explanatory notes on mutation and hybridization. | (10) (10) |
| Q4 | | Discuss the roles of different phyto-hormones inthe regulation of plant growth. | (10) |
| Q5 | a) b) | Discuss different types of adulteration of crude drugs with suitable examples. Discuss factors affecting the cultivation of medicinal plants. | (5) (5) |
| Q6 | a <u>)</u> ,, b) | Write a note on classification of natural drugs with suitable explanation. Mention various methods involved in pest control. | (5) ₂₅₇ |
| Q7 | a) b) | Write down the biological sources, chemical constituents and uses of honey and guar gum. Write a note on applications of plant tissue culture as a source of drug molecules. | (5) (5) |
| Q8 | 257 | Write down the biological source, chemical constituents and uses of kokum to the butter, agar, tragacanth and shark liver oil. | 2.5 x 4 = 10) ₂₅₇ |

Registration No: