

# GPAT QUESTION PAPER 2013 WITH ANSWER KEY

## GPAT QUESTIONS

- Heckel's plot represents .....  
(a) Extent of plastic and elastic deformation of material during compaction  
(b) Force-time or force-displacement relationship  
(c) Pressure-porosity (volume) relationship  
(d) Stress relaxation measurements
- Which of the following would cause increase in the binding strength at the dry granulation process in significant degree  
(a) Carboxymethylamylopectiglycolate (b) Macrogol 4000  
(c) Magnesium Stearate (d) Lactose
- The correct statements concerning concentration microencapsulation  
(1) Concentration always leads to monophasic microcapsule  
(2) When the gelatin is used for microcapsule's wall material, the concentration is bound to happen  
(3) Only gelatin can be used for microcapsule's wall  
(4) Simple or compound concentration can be distinguished according to the number of macromolecular colloids taking part in the process  
(5) The pH conditions of the system and the solubility of the auxiliary materials do not have any effect on the preparation of the microcapsule  
(a) Only 1 and 4 are correct (b) Only 2 and 3 are correct  
(c) Only 1 and 5 are correct (d) Only 2 and 4 are correct
- Cyclohexanone exhibits only ..... peaks in  $^{13}\text{C}$ NMR spectrum due to symmetry  
(a) 2 (b) 3 (c) 4 (d) 5
- If an organic compound does not absorb UV visible radiation it means compound does not contain .....  
(a) Single bond (b) Sigma bond  
(c) Conjugated double bond (d) Dative bond
- The positively polarized carbon atom of a carbonyl group acts as.....  
(a) An electrophile and a lewis base (b) A nucleophile and a lewis acid  
(c) A nucleophile and a lewis base (d) An electrophile and a lewis acid
- The Pinene hydrochloride rearranged into bornylterpenoid is called as.....  
(a) Wagner-Meerwein rearrangement (b) A nucleophile and a lewis acid  
(c) Fries rearrangements (d) Backmann rearrangement
- The mouse model for type I diabetes mellitus is.....  
(a) NZB mouse (b) SCID mouse  
(c) Nude mouse (d) NOD mouse

# Hanna Hoekom Question Paper 2013

**Annelies Wilder-Smith**



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web the daughter cells are clones of each other every base pair of their is identical the stages of the cell cycle are the stages of mitosis are prophase metaphase anaphase

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stages pmat listed below prophase metaphase anaphase telophase

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web specifically compare the chromosomes in cells at the end of mitosis vs the end of meiosis i recognizing that the diagram of mitosis tracks just a single pair of homologous chromosomes whereas the diagram of meiosis tracks two pairs of homologous chromosomes one long chromosome and short chromosome

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web review describe the different forms that dna takes before and during cell division in a eukaryotic cell identify the four phases of mitosis in an animal cell and summarize what happens during each phase explain what happens during cytokinesis in an animal cell

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web mitosis diagram showing the different stages of mitosis mitosis is the phase of the cell cycle where the nucleus of a cell is divided into two nuclei with an equal amount of genetic material in both the daughter nuclei it succeeds the g2 phase and is succeeded by cytoplasmic division after the separation of the nucleus

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web prophase prometaphase the cell prepares for mitosis at this stage the chromosomes are not clearly visible the chromosomes pairs of sister chromatids condense and become visible meanwhile the nucleolus and nuclear envelope disappear the centrioles begin moving to opposite ends of the cell and start forming the mitotic spindle metaphase

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