



PhD ENTRANCE EXAM RESULT , VMSBUTU

Answer Key for Pharmacy Branch

| Question | Options |
|---|---|
| 1 : If AIRLINE is written as ENILRIA7, then RAILWAY will be written as | 1) YAWILAR8 2) YAWLIAR7 3) YAWILAR7 4) YAWLIAR8 |
| 2 : Which number is wrong in the series 2, 6, 15, 31, 56, 93? | 1) 31 2) 56 3) 93 4) 6 |
| 3 : If PINK is coded as 1691411, then RED will be coded as | 1) 1963 2) 1853 3) 1954 4) 1854 |
| 4 : Statement 1: A is bigger than B but shorter than C; Statement 2: D is smaller than C and bigger than A; Statement 3: B is greater than D; If statement 1 and statement 2 are true, statement 3 will be | 1) "TRUE" 2) "FALSE" 3) uncertain 4) none |
| 5 : Arrange the following words in a meaningful sequence : 1- sun, 2- rain, 3-child, 4-rainbow,5-happy | 1) 2, 1, 4, 3, 5 2) 3, 2, 1, 4, 5 3) 2, 1, 3, 4, 5 4) 4, 5, 1, 3, 2 |
| 6 : What is the probability of getting two tails when two coins are tossed? | 1) 0.3333333333333333 2) 0.166666666666667 3) 0.5 4) 0.25 |

| Question | Options |
|--|--|
| 7 : A man covers a distance of 110 km between two cities in 10 hours. He travelled partly on foot at 9 km/hr and partly on a bicycle at 15 km/hr. Find the distance travelled on foot. | 1) 92 2) 94 3) 60 4) 80 |
| 8 : Vikas and Mohan working together can complete a work in 6 days. If Vikas alone completes the same work in 10 days, in how many days Mohan alone can complete the same work? | 1) 13 2) 14 3) 15 4) 16 |
| 9 : The HCF of $\frac{2}{3}$, $\frac{8}{9}$, $\frac{64}{81}$ and $\frac{10}{27}$ is | 1) 0.666666666666667 2) $\frac{160}{3}$ 3) $\frac{2}{81}$ 4) $\frac{160}{81}$ |
| 10 : A 60 liter mixture of milk and water contains 10% water. How much water must be added to make water 20% in the mixture? | 1) 8 liters 2) 7.5 liters 3) 7 liters 4) 6.5 liters |
| 11 : Who Invented the 3-D printer? | 1) Nick Holonyak 2) Elias Howe 3) Chuck Hull 4) Christiaan Huygens |
| 12 : Which Veda depicts the information about the most ancient Vedic age culture? | 1) Atharvaveda 2) Samaveda 3) Yajurveda 4) Rig Veda |
| 13 : The first pico satellite of India is- | 1) GSAT-4 2) ANUSAT 3) INSAT 4) STUDSAT |
| 14 : Which of the following is known as the Diamond City of India? | 1) Aurangabad 2) Jaipur 3) Panna 4) Jhiria |

| Question | Options |
|---|--|
| 15 : In which year Forest Conservation Act was passed? | <p>1) 1980</p> <p>2) 1988</p> <p>3) 1986</p> <p>4) 1990</p> |
| 16 : What is a hypothesis in research? | <p>1) A conclusion drawn from data analysis</p> <p>2) A summary of research findings</p> <p>3) A measurement of data accuracy</p> <p>4) A statement of predicted relationship between variables</p> |
| 17 : What is the purpose of a literature review in research? | <p>1) To analyze data</p> <p>2) To summarize research findings</p> <p>3) To collect primary data</p> <p>4) To identify the research gaps</p> |
| 18 : What is a dependent variable in research? | <p>1) The variable that is manipulated by the researcher</p> <p>2) The variable that remains constant throughout the research</p> <p>3) The variable that is measured and observed</p> <p>4) The variable that is not relevant to the research question</p> |
| 19 : What is a research design? | <p>1) A plan for data analysis</p> <p>2) A method for data collection</p> <p>3) A framework for conducting research</p> <p>4) A statistical technique</p> |
| 20 : What is the appropriate statistical analysis for comparing means between two groups? | <p>1) T-test</p> <p>2) Chi-squared test</p> <p>3) Analysis of variance (ANOVA)</p> <p>4) Regression analysis</p> |

| Question | Options |
|---|--|
| 21 : Sudden increase in solubility of micells forming surfactant above definite temperture is known as | 1) Cloud point 2) Kraft point 3) CMC 4) None |
| 22 : Precursor for the biosynthesis of tropane alkaloid is. | 1) Leucine 2) Lysine 3) Ornithine 4) Tyrosine |
| 23 : Which of the following is an irritant laxative? | 1) Docusates 2) Castor oil 3) Magnesium sulphate 4) Lactulose |
| 24 : Which one of the following technique is used to determine glass transition temperature | 1) X-ray diffractometry 2) Differential scanning calorimetry 3) Atomic-forced microscopy 4) Raman spectroscopy |
| 25 : Which Schedule of the Drugs and Cosmetics Act governs the clinical trials legislative requirements of the Drugs and Cosmetics Act. | 1) Schedule X 2) Schedule Y 3) Schedule M 4) Schedule C |
| 26 : The callus in plat tissue culture is: | 1) Differentiated cell mass 2) Biomass 3) Isolated roots 4) Undifferentiated cell mass |
| 27 : The imperfections in the tablet surface is filled in which step of sugar coating | 1) Sealing 2) Subcoating 3) Syruping 4) Polishing |

| Question | Options |
|--|---|
| 28 : Mordant Black II indicator used in: | 1) Acid-base titration 2) Complexometric titration 3) Non-aqueous titration 4) Precipitation titration |
| 29 : Ibuprofen is a | 1) 2-(4-propylphenyl)propionic acid 2) 2-(4-isobutylphenyl)propionic acid 3) 2-(4-ethylphenyl)propionic acid 4) 2-(4-hexylphenyl)propionic acid |
| 30 : Which of the following activities occurs following the stimulation of H ₂ receptors? | 1) Vasodilation 2) Uterine contraction 3) Bronchial smooth muscle contraction 4) Enhanced secretion of hydrochloric acid in the stomach |
| 31 : Propranolol is used in the treatment of all of the following disease EXCEPT | 1) CVS disease 2) Hyperthyroidism 3) Migraine 4) Bronchial asthma |
| 32 : The Trade name of microcrystalline cellulose is: | 1) Erodex 2) Celutab 3) Cabocil 4) Avicel |
| 33 : The Pharmacy Council of India (PCI) is reconstituted: | 1) Every 2 year 2) Every 3 year 3) Every 5 year 4) Every 6 year |
| 34 : Select the drug from following which acts as alkylating agent | 1) 5-fluorouracil 2) Doxorubicin 3) Cyclophosphamide 4) Vincristine |

| Question | Options |
|--|--|
| 35 : Clinical uses of immunosuppressive drugs: | 1) Organ transplantation 2) Haemolytic disease of the new-born 3) Autoimmune disorders 4) All of these |
| 36 : Macrolides act on | 1) 50s ribosome 2) 30s ribosome 3) Both 50s and 30s ribosome 4) none |
| 37 : Carbonic anhydrase inhibitor is | 1) furosemide 2) Bumetanide 3) Acetazolamide 4) Chlorothiazide |
| 38 : Anticancer drug which do not causing metaphase arrest is: | 1) Vincristine 2) Vinblastin 3) Colchicine 4) Nitrogen mustard |
| 39 : Mechanism of action of aspirin is | 1) Inhibit vitamin k absorption 2) Antithrombin activity 3) Inhibits metabolism of heparin 4) Inhibits platelet aggregation |
| 40 : "Arching' phenomena relates to: | 1) Increases the flow of granules 2) Maintaining the flow of granules 3) Poor flow of granules 4) None |
| 41 : Bioassay are carried out to- | 1) Measures the pharmacological activities of a drug. 2) Avoid clinical trials for new drug. 3) Detect the impurity in a given drug 4) Screen the pharmacogenetic influence of new drugs |

| Question | Options |
|--|--|
| 42 : Unit of kinematics viscosity is: | 1) Dyne.sec/cm 2) Poise 3) Dyne/sq.cm 4) Stoke |
| 43 : Which of the following drugs can be classified as a suicide substrate? | 1) Orlistate 2) 6-Mercaptopurine 3) Aliskiren 4) Clavulanic acid |
| 44 : Which of the following drugs was not isolated from a natural source? | 1) Quinine 2) Morphine 3) Isoniazid 4) Artemisinin |
| 45 : To prevent the sticking of granules between the wall of die and tablet, we should use | 1) Lubricant 2) Antiadherent 3) Glidants 4) None |
| 46 : A metabolite of Spironolactone is | 1) Aldosterone 2) Canrenone 3) Corticosterone 4) Pregnenolone |
| 47 : For fast acting nitro- glycerine should be given by | 1) Oral 2) Sublingual 3) Buccal 4) intravenous |
| 48 : Which of the antineoplastic agent is metabolized by xanthine oxidase? | 1) 6-mercaptopurine 2) Vincristine 3) Chlorambucil 4) 6-Thioguanine |
| 49 : The Whiskering, the defect during tablet preparation is associated with... | 1) Deep concave punches 2) Deep convex punches 3) Flat punches 4) None |

| Question | Options |
|------------------------------|---|
| 50 : Renin is secreted from: | <ul style="list-style-type: none"><li data-bbox="989 257 1125 291">1) Kidney<li data-bbox="989 302 1109 336">2) Lungs<li data-bbox="989 347 1093 380">3) Liver<li data-bbox="989 392 1141 425">4) Stomach |

Best of luck for the future!