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PhD ENTRANCE EXAM RESULT , VMSBUTU

Answer Key for Pharmacy Branch

Question	Options
1 : A statement of the quantitative research question should:	1) Extend the statement of purpose by specifying exactly the question (the researcher will address) 2) Help the research in selecting appropriate participants, research methods, measures, and materials 3) Specify the variables of interest 4) All the above
2 : In the process of conducting research 'Formulation of Hypothesis" is followed by	1) Statement of Objectives 2) Analysis of Data 3) Selection of Research Tools 4) Collection of Data
3 : In order to pursue the research, which of the following is priorly required?	1) Developing a research design 2) Formulating a research question 3) Deciding about the data analysis procedure 4) Formulating a research hypothesis

Question	Options
4 : What are the core elements of a Research Process?	1) Introduction; Data Collection; Data Analysis; Conclusions and Recommendations 2) Executive Summary; Literature Review; Data Gathered; Conclusions, Bibliography 3) Research Plan; Research Data; Analysis; References 4) Introduction; Literature Review; Research Methodology; Results; Discussions and Conclusions
5 : What does the term 'longitudinal design' mean?	1) A study completed far away from where the researcher lives 2) A study which is very long to read. 3) A study with two contrasting cases. 4) A study completed over a distinct period of time to map changes in social phenomena
6 : Which institution approved the '6G Vision Framework'?	1) NASSCOM 2) NITI Aayog 3) ITU 4) IMF
7 : Which company has launched ChatGPT rival Bard in European Union, Brazil and other nations?	1) Google 2) Microsoft 3) Apple 4) Infosys
8 : What is AIRAWAT ?	1) Submarine 2) AI supercomputer 3) 5G-enabled drone 4) Recently discovered exoplanet

Question	Options
9 : The Union Government has exempted which institution from the purview of the Right to Information Act, 2005?	1) RBI 2) SEBI 3) CERT-In 4) Election Commission of India
10 : What is 'PSiFI system'	1) A primary method of waste disposal 2) A system for recognizing human emotions 3) A wearable device for monitoring blood pressure 4) A voice recognition AI tool
11 : In a mixture of 60 litres, the ratio of milk to water is 2 : 1. If this ratio is to be 1 : 2, then the quantity of water (in litres) to be further added is ?	1) 20 2) 30 3) 40 4) 60
12 : The cost of Type 1 rice is Rs. 15 per kg and Type 2 rice is Rs.20 per kg. If both Type 1 and Type 2 are mixed in the ratio of 2 : 3, then the price per kg of the mixed variety of rice is ?	1) 19.5 2) 19 3) 18 4) 18.5
13 : A cistern is normally filled in 8 hours but takes two hours longer to fill because of a leak in its bottom. If the cistern is full, the leak will empty it in ?	1) 20 2) 28 3) 36 4) 40
14 : A starts business with Rs. 3500 and after 5 months, B joins with A as his partner. After a year, the profit is divided in the ratio 2 : 3. What is B's contribution in the capital ?	1) 8000 2) 8500 3) 9000 4) 7500
15 : A tank is 25 m long, 12 m wide and 6 m deep. The cost of plastering its walls and bottom at 75 paise per sq. m, is ?	1) 456 2) 458 3) 558 4) 568

Question	Options
16 : If MADE is coded as 12236 and BAD is coded as 123, then how will DECK be coded as ?	<p>1) 36212</p> <p>2) 34312</p> <p>3) 36201</p> <p>4) 44412</p>
17 : Five balls L1, L2, L3, L4 and L5 are kept one above the other (not necessarily in the same order). L1 is just above L5 and just below L4. L2 is just above L3 and just below L5. How many balls are above L2 ?	<p>1) 2</p> <p>2) 3</p> <p>3) 4</p> <p>4) 4</p>
18 : Mayank is the son of Chhaya. Chhaya and Deepa are sisters. Gayatri is the mother of Deepa. If Naman is the son of Gayatri , How is Mayank related to Naman ?	<p>1) Nephew</p> <p>2) Brother</p> <p>3) Father</p> <p>4) Son</p>
19 : Which number will replace the question mark(?) in the following series? 98, 95, 86, 82, 66, ?, 36 ?	<p>1) 58</p> <p>2) 60</p> <p>3) 61</p> <p>4) 63</p>
20 : If 5 November 2019 was Tuesday, then what was the day of the week on 5 December 2011 ?	<p>1) Tuesday</p> <p>2) Monday</p> <p>3) Sunday</p> <p>4) Saturday</p>
21 : Bundles of acicular calcium oxalate crystals is present in.....	<p>1) Squill</p> <p>2) Gentian</p> <p>3) Belladonna</p> <p>4) Rhubarb</p>
22 : enzyme is mainly obtained from non-pathogenic enterobacteria.	<p>1) Urokinase</p> <p>2) Papain</p> <p>3) Serratiopeptidase</p> <p>4) Hyaluronidase</p>
23 : Which of the following is the GABA reuptake inhibitor?	<p>1) Bicuculline</p> <p>2) Tigabine</p> <p>3) Progabide</p> <p>4) Baclofen</p>

Question	Options
24 : If an organic compound does not absorb UV visible radiation it means compound does not contain.....	1) Dative bond 2) Sigma bond 3) Single bond 4) Conjugated double bond
25 : Identify the metabolite of prontosil responsible for its antibacterial activity.	1) Sulphanilamide 2) Sulphacetamide 3) Probenecid 4) p-Amino benzoic acid
26 : A large Reynold number is indication of which type of flow?	1) Highly turbulent flow 2) Laminar flow 3) Steady flow 4) Smooth & streamline flow
27 : Which of the reagent from the given can be used to protect ketone group?	1) Basic methanol 2) Acidic methanol 3) Chloroform 4) Di-t-butyl dicarbonate
28 : Polymorphs in pharmaceutical solids are detected by which technique?	1) HPTLC 2) LC-MS 3) Solid state NMR 4) Coulter counter
29 : The degree of flocculation of a suspension is 1.5 and the sedimentation volume is 0.75. What will be the ultimate volume of deflocculated suspension?	1) 5 2) 2 3) 1.5 4) 0.5
30 : SOS means.....	1) Take immediately 2) Take occasionally 3) Take when necessary 4) Take as directed

Question	Options
31 : Glass transition temperature is detected through	1) HPLC 2) Differential scanning calorimetry 3) TEM 4) Thermogravimetric analysis
32 : In the official bioassay of Erythromycin the strain used is.....	1) Salmonella typhi 2) Escherichia coli 3) Bacillus subtilis 4) Micrococcus luteus
33 : A naturally occurring amino acid which does not have a chiral centre is	1) Tryptophan 2) Tyrosine 3) Alanine 4) Glycine
34 : The microwave frequency most useful in natural product extraction is.....	1) 2.45 GHz 2) 28.10 GHz 3) 0.22 GHz 4) 730.00 GHz
35 : Which of the following is the disadvantage of reciprocating pump used in liquid chromatography?	1) Does not have moderate flow rate 2) Corrosive components 3) Produces pulsed flow 4) Does not have small hold-up value
36 : Which of the following is not a technique of induced protoplast fusion?	1) Electrical fusion 2) NaNO ₃ treatment 3) CaCO₃ treatment 4) Treatment with calcium ions at high pH
37 : How many ¹ H NMR signals will be given by acetone?	1) Four 2) Three 3) Two 4) One

Question	Options
38 : When the fracture surfaces of bark are smooth, it is called asfracture.	1) Splintery 2) Short 3) Laminated 4) Granular
39 : Hyperuricaemia is associated with the abnormal metabolism of	1) Purine 2) Ascorbic acid 3) Riboflavin 4) Pyrimidine
40 : Isabgol is	1) Laxative 2) Adrenergic 3) Emetic 4) Antihypertensive
41 : In glucose metabolism, conversion of 2-phosphoglycerate to phosphoenol pyruvate is carried out by which of the enzyme?	1) Aldolase 2) Enolase 3) Hexokinase 4) Pyruvate kinase
42 : Identify the substance used as mucoadhesive.	1) Saccharin 2) Burnt sugar 3) S.C.M.C 4) Acacia
43 : Articles, Paragraph and Sub-paragraph are the sub-divisions of legislative instruments?	1) Orders 2) Acts 3) Bills 4) Rules
44 : Sodium nitroprusside is a potent blood pressure lowering drug. Its use is limited because of	1) Converts to ineffective adducts 2) Very long duration of action 3) Ineffective in oral route 4) Short duration of action
45 : The duration of action of a sublingual nitroglycerin tablet is	1) 2 - 3 hours 2) 10 - 30 minutes 3) 2 - 6 minutes 4) 6 - 8 hours

Question	Options
46 : is water soluble.	1) Ergosine 2) Ergocristine 3) Ergometrine 4) Ergotamine
47 : The T-DNA is kb segment of Ti – plasmid of Agrobacterium tumefaciens.	1) ~8 2) ~ 230 3) ~ 104 4) ~ 23
48 : Licence to sell drug specified in Schedule C and C1 is given in form number.....	1) 21 2) 30 3) 24 4) 19
49 : Rideal Walker test is performed by using the strain.....	1) Streptococcus pyogenes 2) Salmonella typhi 3) Staphylococcus niruri 4) Escherichia coli
50 : Rancidity of fat is due to.....	1) Neutralisation 2) Hydrolysis 3) Oxidation 4) Saponification

Best of luck for the future!