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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Theory Examination, July 2020

Course: Computer Applications in Pharmacy   Semester: II
Program: B.Pharma   Time 2 hrs.
Course Code: BP205T   Max. Marks: 100

Instructions:

<div align="center">SECTION A</div>

S. No.	CO	Multiple Choice Questions/Fill in the Blanks/ True or False	one marks each
	CO1	**MC Convert the binary number (11111111) to its hexadecimal equivalent. FF correct FFFF incorrect 1FFF incorrect 0FFF incorrect** **MC The maximum value of a single digit in an octal number system? 8 incorrect 7 correct 6 incorrect 5 incorrect** **MC The corresponding decimal number of the given binary number (1010101010) is: 622 incorrect 682 correct 684 incorrect 680 incorrect** **MC Identify the maximum count of bits sufficient to represent a hexadecimal number in binary: 4 correct 3 incorrect 7 incorrect 8 incorrect** **MC The other name given to context diagram is: Level-0 DFD correct Level-1 DFD incorrect Level-2 DFD incorrect All of the mentioned incorrect** **MC The symbol directed arc/line in DFD represents Data Store incorrect Data Process incorrect Data Flow correct All of the mentioned incorrect** **MC Debugging refers to: creating program code incorrect finding and correcting errors in the program code correct identifying the task to be computerized incorrect creating the algorithm incorrect**	
	CO2	**MC Which of the following provides ability to query data from the database and to insert tuples into, delete tuples from, and alter tuples in the database? DML(Data Manipulation Langauge) correct DDL(Data Definition Langauge) incorrect Query incorrect Relational Schema incorrect**	

		MC Using which language can a client demand data from a database? Query correct Relational incorrect Structural incorrect Compiler incorrect	
		MC A relational database comprises of a collection of: Tables correct Fields incorrect Records incorrect Keys incorrect	
		MC Which is a multivalued attribute out of these? Phone_number correct Name incorrect Date_of_birthincorrect All of the mentioned incorrectMC Which of coming up next is a solitary esteemed attribute Register_number correct Address incorrect SUBJECT_TAKEN incorrect Reference incorrect	
		MC Preformatted text is defined by which element? <p> incorrect <pre> correct <hr> incorrect <ins> incorrect	
		MC "Consider a system where, a heat sensor detects an intrusion and alerts the security company." What kind of a requirement the system is providing ? Functional correct Non-Functional incorrect Known Requirementincorrect None of the mentioned incorrect	
		MC HTML and XHTML cannot be differentiated by which of the following? Charset in html is "text/html" where as in xhtml it is "application/xml+xhtml" incorrect Charset in both html and xhtml is "text/html"correct Tags and attributes are case-insensitive in HTML but not in XHTML incorrect Special characters must be escaped using character entities in XHTML unlike HTML incorrect	
		MC How the content in file is identified as HTML content. The extension of the file ".html" incorrect The "content-type" header correct Both ".html" extension and "content-type" header incorrect The "content_type" header incorrect	
		MC Which tag is used for the largest heading in HTML. h6 incorrect heading incorrect h1 correct head incorrect	
		MC Identify the table tags out of the following? table, thead, tr, td correct colspan, table, tr incorrect table, tt, tr, td incorrect thead, colspan, td, tr incorrect	
		MC To insert a video, we use a video tag and set its src attribute to a local or remote URL containing a playable movie. True correct False incorrect	
	CO3	**MC** Pharmacokinetics is otherwise called ADME correct MMME incorrect EEED incorrect ASED incorrect	
		MC Which proclamation is right regarding E-prescribing facilitates: Decrease medication errors and improves efficiency correct Increase medication errors and improves efficiency incorrect Increase medication errors and reduce efficiency incorrect Decrease medication errors and reduce efficiency incorrect	

		MC mHealth closely refers to which of the following? Mobile healthcare device correct To check health issues related to Respiration incorrect To provide healthy tips at your doorsteps incorrect None of the above incorrect **MC** The primary need for studying Bioinformatics is: Design and implementation of new algorithms and statistics which assess relationship among members of large data sets incorrect Analysis and interpretation of various data types, which includes nucleotide and amino acid sequences and structure of protein incoorect To develop computational tools and databases that enables efficient analysis, access and management of biologically significant information incorrect All of the above correct **MC** Administration error accounts for what percentage of medication errors? 5% to 12% incorrect 15% to 24% incorrect 26% to 32% correct 50% to 75% incorrect	
	CO4	**MC** Out of the following, identify the protein sequence database. DDBJ incorrect EMBL incorrect PIR incorrect GenBANK correct **MC** Out of the following, identify the sequence alignment tool. BLAST incorrect PRINT correct PROSITE incorrect PIR incorrect **MC** Alignment method suitable for aligning closely related sequence is: Multiple sequence alignment incorrect Pairwise alignment incorrect Global alignment correct Local alignment incorrect **MC** Information of all known nucleotide and protein sequence are available on: EMBL incorrect DDBT incorrect NCBI's GenBANK incorrect All of these correct **MC** Identify the data retrieving tool? ENTREZ correct EMBL incorrect PHD incorrect All of these incorrect	
	CO5	**MC** In chromatography, which of the following can be the mobile phase be made of: Solid or liquid incorrect Liquid or gas correct Gas only incorrect Liquid only incorrect **MC** In which type of chromatography the stationary phase held in a narrow tube and the mobile phase is forced through it under pressure? Column Chromatography correct Planar Chromatography incorrect Liquid Chromatography incorrect Gas Chromatography incorrect **MC** The visual output of chromatography is known as: Chromatograph incorrect Chromatogram correct Electropherogram incorrect Autoradiogram incorrect **MC** The paper is non-polar in paper chromatography: True incorrect False correct **MC** Which of the following is the computer based system that stores and manipulates data that are viewed from a geographical point or reference Geographical Information System (GIS) correct Database System (DS) incorrect Geographic System (GS) incorrect Software System (SS) incorrect **MC** Which of the following system ensures that proper stock of each item are maintain in an organization. Human resource information system	

S. No.	CO	Each question comprises of Multiple Answer Type/ Fill in the blanks/multiple blanks or True/False	one/two marks each
		incorrect An inventory control system correct Manufacturing information system incorrect Marketing information system incorrect	
	CO1	**MC The only language which the computer understands is _____ Assembly Language incorrect Binary Language correct BASIC incorrect C Language incorrect**	
		MC The smallest unit of data in computer is _____ Byte incorrect Nibble incorrect Bit correct KB incorrect	
		MC A special request originated from some device to the CPU to acquire some of its time is called _____ Disturbance incorrect Attenuation incorrect Interrupt correct Noise incorrectMC Components that provide internal storage to the CPU are _____ Registers correct Program Counters incorrect Controllers incorrect Internal chipsincorrect	
		MC Saving data and instructions to make them readily available is the job of _____ Storage Unit correct Cache Unit incorrect Input Unit incorrect Output Unit incorrect	
		MC _____ is the raw material used as input and _____ is the processed data obtained as output of data processing. Data, Instructions correct Instructions, Program incorrect Data, Program incorrect Program, Code incorrect	
		MC The LSB and MSB of 1243247 are ____ and ____1, 7 incorrect 4, 7 incorrect 7, 1 correct 4, 1 incorrect	
		MC The 2's complement of 15 is _____ 0000 incorrect 0001 incorrect 0010 correct 0100 incorrect	
		MC The binary number 111 in octal format is _____ 6 incorrect 7 correct 8 incorrect 5 incorrect	
		MC ABC is a valid hexadecimal number. True correct False incorrect	
		MC The binary number 111 in its 2's complement form is _____ 010 incorrect 001 correct 000 incorrect 111 incorrect	
		MC 2's complement is obtained by adding 1 to 1's complement of a number. True correct False incorrect	
		MC A DFD is always accompanied by a data dictionary. True correct False incorrect	
		MC A description of each function presented in the DFD is contained in a _____ data flow incorrect process specification correct control specification incorrect data store incorrect	
		MC In the Analysis phase, the development of the _____ occurs, which is a clear statement of the goals and objectives of the project.	

		documentation incorrect flowchart incorrect program specification correct design incorrect	
		MC _____ and _____ are the two issues of Requirement Analysis. Performance, Design incorrect Stakeholder, Developer correct Functional, Non-Functional incorrect None of the mentioned incorrect **MC** Requirements Analysis is an Iterative Process. True correct False incorrect **MC** Requirements should specify 'what' but not 'how'. True correct False incorrect	
	CO2	**MC** The _____ operator takes the results of two queries and returns only rows that appear in both result sets. Union incorrect Intersect correct Difference incorrect Projection incorrect **MC** A _____ is a pictorial depiction of the schema of a database that shows the relations in the database, their attributes, and primary keys and foreign keys. Schema diagram correct Relational algebra incorrect Database diagram incorrect Schema flow incorrect **MC** A _____ in a table represents a relationship among a set of values. Column incorrect Key incorrect Row correct Entry incorrect **MC** For each attribute of a relation, there is a set of permitted values, called the _____ of that attribute. Domain correct Relation incorrect Set incorrect Schema incorrect **MC** An _____ is a set of entities of the same type that share the same properties, or attributes. Entity set correct Attribute set incorrect Relation set incorrect Entity model incorrect **MC** Entity is a _____ Object of relation incorrect Present working model incorrect Thing in real world correct Model of relation incorrect **MC** An attribute in a relation is a foreign key if the _____ key from one relation is used as an attribute in that relation. Candidate incorrect Primary correct Super incorrect Sub incorrect **MC** Each cell of the table can be represented by using _____ <tr> incorrect <td> correct <th> incorrect <thead> incorrect **MC** Requirements elicitation is a cyclic process True correct False incorrect **MC** Functional requirements capture the intended behavior of the system. True correct False incorrect **MC** Does software wear & tear by decomposition ? Yes incorrect No correct	

		MC _____ contains the navigation menu, or other navigation functionality for the page. section incorrect header incorrect nav correct aside incorrect **MC** To insert a video, we use a video tag and set its src attribute to a local or remote URL containing a playable movie. True correct False incorrect **MC** For displaying a list horizontally, we can use _____ <dd> incorrect display:inline correct <dt> incorrect type incorrect	
	CO3	**MC** Which statement related to barcode scanning is correct? Barcode scanning initially reduces medication administration time. incorrect Barcode scanning initially increases medication administration time. correct Barcode scanning has been found to be fail safe. incorrect Barcode scanning has been found to be too expensive for practical use. incorrect **MC** Some specialists recommend expanding the "five rights" of drug administration to include which other right? Right dosage incorrect Right reason correct Right time incorrect Right route incorrect **MC** Medication errors can be reduced by using which of the communication method: RABT incorrect SBAR correct SABT incorrect ABRS incorrect **MC** Which of the following is not a mechanism for pharmacokinetic analysis? Compartment analysis incorrect Non compartment analysis incorrect Physiologic modeling incorrect Human model correct	
	CO4	**MC** Which is the sequence submission system in EMBL? Entrez incorrect Webin correct Sakura incorrect Seqin incorrect **MC** Analysing or comparing entire genome of species Bioinformatics incorrect Genomics correct Proteomics incorrect Pharmacogenomics incorrect **MC** What is the approximate base pairs of human genome? 2 billion base pairs incorrect 3 billion base pairs correct 4 billion base pairs incorrect 5 billion base pairs incorrect **MC** Transcription process involves which of the following Conversion of DNA into mRNA correct Conversion of RNA into DNA incorrect Conversion of DNA into protein incorrect Conversion of protein into DNA incorrect **MC** Primary database defines which of the following? storing and making sequence data available. incorrect they can be accessed freely by anyone around the world incorrect DDBJ, NCBI, ENA forms a repository of Nucleotide Sequence Database Collaboration incorrect All of the above correct	
	CO5	**MC** Which of the following is a program that models the pattern recognition capability of human brain. An expert system incorrect Artificial intelligence incorrect Neural network correct Development engine incorrect	

| | | MC   The accounting system is _____ whereas the demand forecasting is _____. Deterministic, probabilistic correct Probabilistic, deterministic incorrect Open, close incorrect Close, open incorrect
MC   If a university sets up a web based information system that faculty could access to record student grade and to advice students, that would be an example of a/an: CRM incorrect Intranet correct ERP incorrect Extranet incorrect None of the above incorrect
MC   The general transformation phases for information is: Information to data to knowledge incorrect Knowledge to data to information incorrect Data to knowledge to information incorrect Data to information to knowledge correct None of the above incorrect
MC   The majority of publically available internet information sources are: Created in XML incorrect Structured information incorrect Normal information incorrect Unstructured information correct None of the above incorrect
MC   Which statement regarding records management is correct: Is a discipline limited to digitised paper documents incorrect Is a discipline limited to library books incorrect Is a discipline limited to paper documents incorrect Is a discipline limited to information contained in databases incorrect None of the above correct | |
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