Questions:

- 1) Is the use of models (physical, mathematical, schematic..) as a basis for simulation for decision making.
 - a. System b. Model <u>c. Modelling and simulation</u>
- 2) Representing physical model in virtual form and condition are applicant that set up of the interest.
 - a. M&S b. Model c. Mathematical model
- 3) Is a discipline for a developing a level of understanding of the interaction of the parts of a system and a system as a whole
 - a. Model <u>b. Modelling and simulation</u> c. system
- 4) Representing the real system can be done either physical model at smaller scale, or via mathematical model.
 - a. Modelling and system b. Simulation c. System
- 5) Example on methods of design automation and manufacturing is:
 - a. DSS b. M&S C. CAD
- 6) Is emerging discipline.
 - a. Simulation b. System c. Modelling and simulation
- 7) CAD stands for:
 - a. Computer and design.
 - b. Computerized-aided design.
 - c. Computer-aided design.
- 8) Each scientific and technical should always be based on through (physical, chemical and biological etc.) of the concerned branch of business.
 - a. Decision b. Knowledge c. Model
- 9) M&S depends on development of
- a. Physical method b. Schematic method c. mathematical method

- 10) is the manipulation of a model in such a way that it operates on time or space to compress it
 - a. Simulation b. Model c. M&S.
- 11) Allows correction or completion of knowledge of the
 - a. Simulation. B. Model c. System.
- 12) Is the manipulation of a model in such a way that it operates on time or space to compress it.
 - a. M&S b. System c. <u>Simulation</u>
- 13) Is simplified representation of a system at some particular point in time or space intended to promote understanding of a real system
 - a. M&S b. Simulation c. Model
- 14) Is description of some system intended to predict what happens if certain action are taken.
 - a. System b. Simulation c. Model.
- 15) Construct conceptual framework that describe system.
 - a. System b. Simulation c. Model.
- 16) A collection of symbols and ideas that represent the functional relationship of the elements of system.
 - a. System b. Simulation c. Model.
- 17) From the types of the model
 - a. Mental and symbolic model b. design and processing c. Model and simulation
- 18) Is set of elements or components that interact to accomplish goals
 - a. Model b. <u>System</u> c. Simulation
- 19) Represent the most system component s and the way they interact

| a. System b. Simulation c. <u>Model</u> |
|--|
| 20) Is Collection of entities that act together |
| a. Model b. Simulation c. <u>System</u> |
| 21) Is groups of objects that are joined together toward the accomplishment of some purpose |
| a. Model b. <u>System</u> c. M&S |
| 22) Give us comprehensible representation of the system. |
| a. <u>Model</u> b. M&S c. Simulation |
| 23) Are something to communicate about system have inputs and outputs |
| a. System b. M&S c. <u>Model</u> |
| 24) Is something that we use in lieu of the real system in order to understand something about the system. |
| a. M&S b. Simulation c. <u>Model</u> |
| 25) When we make model of actual system, we determine |
| a. Required setting boundaries. |
| b. Separate system from rest of the universe. |
| C. Separate the system a closed world. |
| d. All of the above. |
| 26) Defines the system and distinguishes it from everything else. |
| a. System b. <u>System boundary</u> c. Model |
| 27) Is specific objective in system. |
| a. System performance and standard b. System c. Efficiency |

28) A measure of what is produced divide by what is concumed a. Efficiency b. Effectiveness c. Model 29) A measure of the extent to which a system achieves its goal. a. Efficiency b. Effectiveness c. System performance and standard 30) A quantity or value that can be controlled by the decision maker. a. System parameter b. system variable c. System 31) A quantity or value that cannot be controlled by the decision maker. a. System parameter b. system variable c. System 32) A set of interrelated elements or components that collect input, manipulate, and disseminate output data and information and provide feedback to meet an objective. b. M&S c. IS a. System 33) the activity of gathering and capturing data. a. Output b. input c. processing 34) Whatever goes into computer. a. input b. output c. processing. 35) Converting or transforming data into useful output a. input b. output c. processing 36) A device that feeds data into computer such as keyboard or mouse. a. input device b. output device c. computer 37) Anything that comes out a computer. a. input b. output c. processing

38) Useful information and the forms of the documents a. input b. output c. processing. 39) Include display screen, loudspeaker and printer. a. input device b. output device c. computer 40) Output that is used to make changes to input or processing activities. a. processing b. feedback c. forecasting 41) Is proactive approach to feedback and used for estimation future a. feedback b. forecasting c. IS 42) Is composed of HW, SW, DB, telecommunication, people, procedure together they are configure to collect, manipulate, store, process data input information. a. computer based information system(CBIS) b. manual system c. I 43) is another term of CBIS and consists of shared IS resources that from the foundation of IS c. technology infrastructure. b. CBIS a. IS 44) is computing system used to perform input, processing, output activities. c. telecommunication. a. SW b. HW 45) Is the objects that actually touched, like disk, disk dive, display screen and keyboard. b. HW c. telecommunication a. SW 46) The important in the Hardware is a process of a. manufacturing b. computing system c. interring data

| 47) All of the following that factors affecting the performance of |
|---|
| computing system except: |
| a. Ram size b. hard disk speed and storage |
| c. <u>fragmenting files</u> d. multitasking consideration |
| 48) Is how fast the CPU will run. |
| a. CPU clocked speed b. hard disk c. processor |
| 49) The important part inside CPU is |
| a. memory b. hard disk c. <u>processor</u> |
| 50) Processor consists of |
| a. ALU b. control unit c. <u>both</u> |
| 51) the clock speed of processor is given in |
| a. Mbytes b. Gbytes c. <u>GHZ</u> |
| 52) as a rule the more memory you have faster PC will appear to operate |
| a. hard disk storage b. RAM size c. free hard disk space |
| 53) hard disk performance is measured by their |
| a. size b. <u>speed</u> c. storage |
| 54) Hard disk defined by the disk |
| a. disk storage b. <u>access time</u> c. disk speed |
| 55) Access time is measured in |
| a. GHZ b. <u>millisecond</u> c. Mbit/s |
| 56) Microsoft windows will create many so-called whish used for managing your programs. |
| used for managing your programs. |

| a. temporary files b. master files c. archive files |
|--|
| 57) If you have free hard disk space you may find that Microsoft windows will not be able to run the system programs at all. |
| a. many b. <u>very little</u> c. little. |
| 58) talking all the broken up pieces and joining them back together again. |
| a. fragmentation files b. de-fragmentation files c. compressed files |
| 59) Windows can run more than one program at a time. |
| a. single task b. <u>multitasking</u> c. sharing |
| 60) a property of an entity. |
| a. tuple b. <u>attribute</u> c. state |
| 61) is activities and events occurring with the environment. |
| a. endogenous b. <u>exogenous</u> C. event |
| 62) is an instantaneous occurrence that might change the state of the system. |
| a. activity b. state c. <u>event</u> |
| 63) is a collection of variables and their values necessary to describe the system at that time |
| a. event b. activity c. <u>state</u> |
| 64) system might be limited by the boundaries: |
| a. conceptual and logical b. physical and logical |
| 65) Designing and analyzing manufacturing system. |
| a. model b. <u>application</u> c. simulation |
| 66) evaluating HW/SW requirements for a computer system. |

- a. simulation b. state c. application
- 67) state variable changes at separate points in time.
 - a. continuous system b. system c. discrete system
- 68) state variable change continuously as a function of a time.
 - a. continuous system b. system c. discrete system
- 69) most operational model are dynamic, stochastic and discrete they are called
 - a. continuous-event simulation model
 - b. discrete-event simulation model
 - c. event simulation model
- 70) Computational model should be consistent with specification model
 - a. validation b. verification c. correctness
- 71) Computational model should be consistent with the system being analysed
 - a. <u>validation</u> b. verification c. correctness
- 72) can an expert distinguish simulation output from actual system output
 - a. validation b. verification c. correctness
- 73) give comprehensive should the model be and is the state variable.
 - a. conceptual model level
 - b. specification model level
 - c. computational model level
- 74) is on paper and may involve equations and pseudocode.

| | a. conceptual m | odel level | |
|--------------|------------------------------|---|-------|
| | b. specification | model level | |
| | c. computation | al model level | |
| 75) | is an computer pro | ogram: | |
| | a. conceptual m | odel level | |
| | b. specification | model level | |
| | c. computation | al model level | |
| | | | |
| ❖ <u>Tru</u> | e or False: | | |
| | computer scien | discipline of M&S is based on development ce as well as influenced by development in some swell as influenced by development in some swell as influenced by development in some swell as well | |
| | a. <u>True</u> . | b. False. | |
| | 2-From goals of building | M&S developing facility in simulation mode | lling |
| | a. <u>True</u> . | b. False. | |
| | 3- From goals of | M&S introducing M&S. | |
| | a. <u>True</u> . | b. False. | |
| | 4-From goals of I simulation | M&S developing application for the need fo | r the |
| | a. <u>True</u> . | b. False. | |
| | | derstanding which may be developed via the lom achievable via any other discipline. | ie |
| | a. <u>True</u> . | b. False. | |
| | | | |

| | e simulation starts, n (Mathematical Mod | nake the physical model with |
|------------------|---|---|
| a. True | • | False. |
| | | puts of the results in format that is: |
| a. <u>True</u> . | b. | False. |
| 8-Fom advan | tages of M&S increas | e cost. (Reduce cost) |
| a. True. | b. | <u>False.</u> |
| 9- Models ma | | proved using results of actual |
| a. <u>True</u> | | b. False. |
| | gineering and analyst | only as good as the underlying must pay attention of its |
| a. <u>True</u> . | b. | False. |
| 11-M&S is a | discipline and pure ap | plication. |
| a. <u>True</u> . | b. | False. |
| | | computational power is used to neaply and time efficient. |
| a. <u>True</u> . | b. | False. |
| 13-Simulatio | n can support experin | nentation that occurs totally in SW. |
| a. <u>True</u> . | b. | False. |
| 14-Simulatio | n used to train persor | ns using actual environment. |
| a. True. | <u>b.</u> | False. |

| 15-M&S Engineering solution pattern. | s rooted in theory but looks for applicable |
|---|---|
| a. <u>True</u> . | b. False. |
| 16- Modelling as a me | thod of cognition has short-time/age short |
| a. True. | b. <u>False</u> . |
| • • | solve real world problems by focusing on S, but solutions are very problem domain |
| a. <u>True</u> . | b. False. |
| 18-Model allows you our ideas in existing | analyse real system and specifying, clarifying system. |
| a. <u>True</u> . | b. False. |
| | ncerns the synthesis of design and models results from development and design. |
| a. <u>True</u> . | b. False. |
| 20-From goals of M& simulation | developing application for the need for the |
| a. <u>True</u> . | b. False |
| • | simulation SW tools that enable intelligent nvestigator with a computer system. |
| a. <u>True</u> . | b. False. |
| _ | and management system with the possibility of and distributed DB. |
| a. <u>True</u> . | b. False. |

| | M&S and AI that connection of the system omputer network or distribution of computer network. |
|---|---|
| a. <u>True</u> . | b. False. |
| 24- Model is a dynamic re | epresentation of the system. |
| aTrue. | b. <u>False</u> . |
| | d representation of a system intended to inderstand the behaviour of the system. |
| (Model) | |
| a. True | b. <u>False</u> . |
| 26- When we make model design. (PROCESSING) | for actual system that making during |
| aTrue. | b. <u>False</u> . |
| 27- Simulation is an abstra represent reality. (Mod | ction or an approximation that is used to lel) |
| aTrue. | b. <u>False</u> . |
| | e potential reality where we are concerned and causal relationship among parts of the |
| a. True | b. <u>False</u> |
| 29- Output can appear in a varion picture and as printed page | ety of forms: as binary number, as character, as |
| a. <u>True</u> . | b. False. |
| 30- parts of CBIS are FIVE: H | IW, SW, telecommunication, computer |

network and DB.

| 31- The smaller the access time the slower the hard disk will store or retrieve data. (faster) | | |
|--|--|--|
| aTrue. | b. <u>False</u> . | |
| the faster each one v | orograms which are running at the same time, will run. To some extend this faster effect ch program is doing. (slower) | |
| aTrue. | b. <u>False</u> . | |
| | | |

b. False

a. <u>True</u>