



Faculty of nursing
Kafr El-Sheikh University

**Nursing informatics (NUR
120206) 2nd year 2016-2017**
Final 2nd Semester Exam

Date: 7/6/2017
Time: 2 hours
Marks: (80)

All questions must be attempted:

Part (I): Read the following statements and choose the best answer :- (30 marks)

1. Computers in nursing are used to manage all the following **except**:
 - a) Patient care information
 - b) Monitor quality
 - c) Patient satisfaction
 - d) Evaluate outcomes
2. Florence nightingale recognized as an early informatics nurse because:
 - a) Change nursing practice based on data and knowledge
 - b) Use data to identify patient need
 - c) All the above
 - d) Null of the above
3. In 1995 saw the :
 - a) First computer systems implemented in hospitals
 - b) First certification for Nursing informatics
 - c) Emerged medical and nursing informatics specialties
 - d) Telemedicine become specialty
4. Defined as a range of practices are used by organizations to identify threats, represent, and distribute knowledge for reuse:
 - a) Knowledge
 - b) Knowledge ontology
 - c) General knowledge
 - d) Knowledge management
5. Defined as what we know and justified true belief that increases an entity's capacity for effective action:
 - a) Knowledge
 - b) Knowledge ontology
 - c) General knowledge
 - d) Knowledge management
6. Quality of Practice The informatics nurse contributes to quality and effectiveness of nursing and informatics practice means:
 - a) Standard (10) of performance
 - b) Standard (5) of practice
 - c) Standard (7) of performance
 - d) Standard (5B) of practice

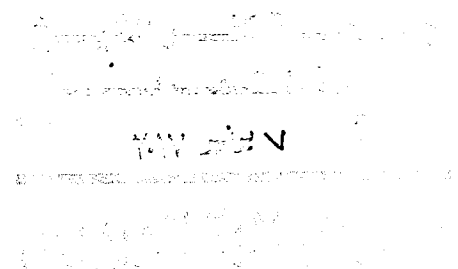
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7. Which of the following defined as the informatics nurse practices ethically.
- Standar (10) of performance
 - Sander (5) of practice
 - Standar (7) of performance
 - Standar (5B) of practice
8. Nursing informatics standards of practice focus on all the following **except**:
- Consumer technology into practice
 - Evidence-based methodology
 - Consumer engagement
 - All of the above
9. Devices are available that recognize thumb prints, retina patterns or facial patterns Called:
- Data privacy user information
 - Authentication of users
 - Data security of user
 - Data confidentiality
10. In privacy principles defined as a fair information practice is particularly relevant in the delivery of healthcare:
- Safeguards
 - Openness
 - Compliance
 - Accuracy
11. Telehealth technologies can be transmitted a number of different ways as:
- Encrypted Internet connections
 - Single-line telephone
 - Private point-to-point broadband connections
 - All of the above
12. Use of telecommunications and IT for providing nursing services in healthcare whenever a large physical distance exists that mean:
- Telenursing
 - Telemedicine
 - Telehealth
 - Telecare
13. is a term given to offering remote care of old and physically less able people
- Telenursing
 - Telemedicine
 - Telehealth
 - Telecare
14. Activities in Telehealth all the following **except**:

- a) Video conference
 - b) Remote patient monitoring
 - c) Provider to provider discussions
 - d) All of the above
15. The informatics nurse develops, prescribes strategies, and expected outcomes that called:
- a) Standard 5 implementation
 - b) Standard 5 coordination
 - c) Standard 4 Planning
 - d) Standard 3 outcomes
16. Eliminates illegible handwriting, reduces data entry errors, and helps eliminate missing patient information.
- a) Improve documentation
 - b) Electronic patient record
 - c) Increase efficiency
 - d) Improve data
17. Defined as students are in charge of their own learning:
- a) Consistent
 - b) Empowerment
 - c) Effacement
 - d) Compatibility
18. Defined as all students get the same standardized set of materials from e-learning.
- a) Consistent
 - b) Empowerment
 - c) Effacement
 - d) Compatibility
19. From the categories of e-learning are the following **except**:
- a) Rapid self-directed
 - b) New information and skills
 - c) Knowledge transfer
 - d) Certification
20. The informatics nurse identifies expected outcomes for a plan individualized to the healthcare consumer or the situation that mean:
- a) Stander (4) of practice
 - b) Stander (3) of practice
 - c) Stander (5A) of practice
 - d) Stander (9) of performance

بأشياء كثيرة



21. Information means large quantities of information that has multiple usage and application
- Organizational
 - Database
 - Functional
 - Control
22. In a workflow management system, processing occurs during which phase?
- output
 - input
 - throughput
 - outflow
23. Intrinsic means that, information is
- Timeliness
 - completeness
 - believability
 - format
24. The lower management level concentrates on :
- controlling
 - actual administration
 - planning
 - determine objectives
25. 1 GB is equal to
- 1024 bit
 - 1024 byte
 - 1024 MB
 - 1024 KB
26. One of the main memories is
- Cache memory
 - RAM
 - Hard disk
 - Flash disk
27. It is the physical component of a computer.
- Hardware
 - Software
 - Electronic
 - People ware
28. CD-ROM, Hard drive, USB disk and diskettes are types of
- storage media
 - input devices

- c) CPU
d) output devices
29. It is one of the application software:
a) Windows 8
b) Computerized medical record system
c) Linux
d) Unix
30. Image scanner is considered as one of the
a) Input device
b) internal component
c) output device
d) storage device

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Part (II): Read each statement carefully, and then circle (T) if the statement is true and circle (F) if the statement is false :(20 marks)

No.	Statements	T	F
1	Use security tools that can be either a software solution such as antivirus software		
2	From the benefits of telemedicine to hospital increase risk of images getting lost		
3	Documentation serve to meet only the needs of the patients		
4	From the characteristics of Telenursing to deliver care and expertise		
5	E-mail scanning software and antivirus software should be turned off		
6	There is a rule in documentation stated that not documented not done		
7	Role-based security allows only authorized individuals access to medical records		
8	Information allows us to expand our data beyond the range of our senses		
9	CINAHL is a leading source for bibliographic and abstract coverage of biomedical literature.		
10	Software is available to scan instant messages and to automatically delete spam e-mail.		
11	The nurse receives an order from the doctor to send him via email a compressed file of the patient's investigations. The nurse understands that to compress a file is to make the file smaller.		
12	Wireless network card connect via USB port.		
13	Research is considered an example of primary patient record.		

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14	In knowledge phase of rapid learning approach, data on past patients are collected, including their delivered treatments and outcomes.		
15	Operational information defines long term policy decisions that define objectivities of a business.		
16	Computer based patient record improves the accuracy and quality of data in a health record.		
17	Primary patient record contains selected data elements to aid nonclinical users		
18	Scope of patient record system may be limited to only single area of clinical information.		
19	ROM holds temporary information and erases it when the computer shuts down.		
20	Data is timely, means that, it should be available when required.		

Part (III): write the terminology in front of the statements (25 marks):

No.	Terminologies	Statements
1.		Described as sorting things into groups to form meaning and deals with questions concerning what entities exist or can be said to exist, and how such entities can be grouped.
2.		Is an agreement, approval, or permission given voluntarily by a competent person that permits some act(s) for some stated purpose(s)
3.		the use of medical information exchanged from one site to another via electronic communications to improve a patient's clinical health status
4.		Defined as a communication tool nurses and other providers create and access to ensure continuity and to deliver safe, quality healthcare to each patient.
5.		approaches involve the presentation of new material to the student
6.		The nursing informatics specialist contributes to the scientific knowledge base of nursing informatics.
7.		Captured Data and Knowledge
8.		The NIS guides the user in making informed decisions related to the purchase of computer system.

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9.		The Education Resources Information Center contains education research information
10.		The knowledge needed to live a good life and to be at peace in our understanding of what we do and have the confidence to make new connections that add to our professional existence.
11.		The smaller and more relevant the learning is the easier it is to capture and remember.
12.		The student with a real life situation on the computer. It has been found to provide an equivalent-to-clinical experience in promoting the development of decision making skills.
13.		An essential link in any telemedicine application and demand a high degree of quality network security and a high level of efficiency and adequate transmission capacity.
14.		A common tool used by organizations to protect their corporate networks when they are attached to the Internet
15.		a specialty that integrates nursing science, computer science, and information science in identifying, collecting, processing and managing data and information to support nursing practice, administration, education and research and to expand nursing knowledge.
16.		A set of international standards focus on the application layer in the OSI model, for transfer of clinical and administrative data between software applications used by various healthcare providers.
17.		Reuse of historical data from routine clinical practice for decisions concerning new patients or test new hypothesis.
18.		System that capture, store, manage and transmit health information of individuals, and activities of organizations in health sector.
19.		The re-structuring of data by people or machine to increase their usefulness and add values for particular purpose.
20.		Information about information.

21.		Value that would vary according to the users and uses of the information .
22.		The repository of information about a single patient .
23.		The repository of electronically maintained information about an individual's life time health status and health care, stored so that it can serve multiple legitimate users.
24.		The essential steps during treatment and nursing care along a time line, which means that it determines the method of treatment for a given disease.
25.		It is a type of device acts as the central point among computer and other devices that are part of a network

b. Check the following form and fill in the missing parts (5 marks):

Patients

Welcome,
Jana Stafford

- General
- Office
- History
- Cases
- Visits
- Admissions
- Problems
- Examinations
- Investigations
- Diagnosis
- Procedures
- Prescriptions
- Charges
- Bills
- Payments
- Adjustments
- Refunds
- Documents
- Referrals

Title	<input type="text" value=""/>	First Name*	<input type="text" value="John"/>	Middle Name	<input type="text" value=""/>	Last Name*	<input type="text" value="Doe"/>	Sex	<input checked="" type="radio"/> M <input type="radio"/> F	Code	<input type="text" value="13/0000002"/>	Alias	<input type="text" value=""/>
Birth Date	<input type="text" value=""/>	Age*	<input type="text" value=""/>		Next of kin /Gaurdian/Spouse		<input type="text" value=""/>	Religion	<input type="text" value=""/>	Marital Status	<input type="text" value=""/>		

Residence Address	Phone Home 1	Phone Home 2	
<input type="text" value="9, Wonderland"/>	<input type="text" value=""/>	<input type="text" value=""/>	
<input type="text" value="Nowhere Street"/>	CellPhone 1	CellPhone 2	
<input type="text" value="Ghatkopar(W)"/>	<input type="text" value=""/>	<input type="text" value=""/>	
City State Zip	E-Mail	<input type="text" value=""/>	
<input type="text" value="Mumbai"/> <input type="text" value="Maharashtra"/> <input type="text" value="400076"/>	Patient Type	Occupation	

Employer	Phone Office 1	Phone Office 2	Assigned/Attending Provider
<input type="text" value="None"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="YOUR NAME"/>
Incoming Referral Details		Referring Doctor	Referring Patient
<input type="text" value="Referring Organization"/>		<input type="text" value="None"/>	<input type="text" value="None"/>

[Info](#) [History](#) [Cases](#) [Visits](#) [Admissions](#) [Problems](#) [Diagnoses](#) [Exams](#) [Investigations](#) [Procedures](#) [Prescriptions](#) [Bills](#)
[Payments](#) [Charges](#) [Adjustments](#) [Refunds](#) [Referrals](#) [Correspondence](#) [Recalls](#) [Appointments](#) [Documents](#) [Message](#)

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1. The current user is:

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2. To modify patient "John Doe" admission data:

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3. To find patient "Smith Mark" personal data:

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4. To register a new patient:

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5. To cancel a specific investigation for patient "John Doe":

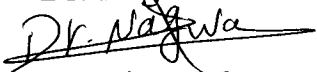
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End of questions.

Good luck

Examiner signature

Dr. Nagwa Gouda



Dr. Diana Mousa

