SAMPLE PAPER BASIC BSC NURSING ENTRANCE TEST

ENGLISH

Q.1 She sings _____ beautifully that everyone enjoys her performances.
(A) so
(B) too
(C) such
(D) very

Q.2 Select the wrongly spelt word ?
(A) calander
(B) career
(C) callous
(D) carriage

Q.3 We've known each other _____ we were children.
(A) since
(B) for
(C) from
(D) during

Q.4 The package arrived _____ the expected delivery date.
(A) on
(B) in
(C) at
(D) before

Q.5 Select the correctly spelt word ?
(A) oppertunity
(B) opportunity
(C) oppurtunity
(D) oportunity

Q.6 The cat is hiding _____ the bed.
(A) in
(B) on
(C) under
(D) between

Q.7 A word or law no longer in use ?

(A) Venerable
(B) Vintage
(C) Obsolete
(D) Absolute

Q.8 I can't believe _____ my keys at home.
(A) I forget
(B) I forgot
(C) I have forgotten
(D) I've forget

Q.9 He is the _____ of the two brothers.
(A) younger
(B) more young
(C) young
(D) youngest

Q.10 The cake tasted _____ sweet that I couldn't finish it.
(A) so
(B) such

(C) very
(D) too

Q.11 I'm going to the store. Do you want _____?

(A) come with me
(B) coming with me
(C) to come with me
(D) came with me

Q.12 She plays the piano _____.

(A) good
(B) well
(C) goodly
(D) best

Q.13 He was not able to give many time to his research ?

(A) many time
(B) He was not able
(C) to give
(D) to his research

Q.14 The book is _____ on the table.

(A) lays
(B) laid
(C) lying
(D) lay

Q.15 He is _____ than his brother.

(A) smarter
(B) smart
(C) most smart
(D) the smartest

NURSING APTITUDE

1. Which of the following cluster of data belong to Maslow's hierarchy of needs?
    a. Love and belonging.
    b. Physiologic needs
    c. Self-actualization
    d. All of the above
2. Which of the following is the nurse's role in the health promotion?
    a. Health risk appraisal
    b. Teach the client to be effective health consumer.
    c. Worksite wellness
    d. None of the above
3. It is described as a collection of people who share some attributes of their lives.
    a. Family
    b. Illness
    c. Community
    d. Nursing
4. Five teaspoon is equivalent to how many millilitres (ml)?
    a. 30 ml
    b. 25 ml
    c. 12 ml
    d. 22 ml
5. The nurse must verify the client's identity before administration of medication. Which of the following is the safest way to identify the client?
    a. Ask the client for his name
    b. Check the client's identification band
    c. State the client's name aloud and have the client repeat it

d. Check the room number

6. Which of the following is the most important purpose of handwashing?
    a. To promote hand circulation
    b. To prevent the transfer of microorganism
    c. To avoid touching the client with a dirty hand
    d. To provide comfort
7. An instrument used for auscultation is:
    a. Percussion-hammer
    b. Audiometer
    c. Stethoscope
    d. Sphygmomanometer
8. Which of the following technique involves the sense of sight?
    a. Inspection
    b. Palpation
    c. Percussion
    d. Auscultation
9. What should the nurse do immediately before performing any procedure?
    a. Shut the door
    b. Wash your hands
    c. Close the curtain
    d. Drape the patient
10. People should stay in _____ to avoid from illness.
    a. Dirty surroundings
    b. Clean surroundings
    c. Impure air
    d. Smoky surroundings
11. When should you give rescue breathing?
    a. Conscious choking victim
    b. Unconscious choking victim
    c. Unconscious, no pulse, not breathing
    d. Unconscious, not breathing, but has a pulse
12. Intradermal injection is given at:
    a. 15° angle
    b. 30° angle
    c. 45° angle
    d. 90° angle
13. Abbreviation of S.O.S means:
    a. Give immediate
    b. Give whenever necessary
    c. At bed time
    d. Give twice a day
14. Cyanosis is caused in case of:
    a. Lack of water
    b. Lack of blood
    c. Lack of oxygen
    d. Lack of glucose

PHYSICS

1. What is the SI unit of acceleration?
    - A. m/s
    - B. m/s^2
    - C. m^2/s
    - D. s/m

2.Newton's First Law is also known as:

- A. Law of Acceleration
- B. Law of Inertia
- C. Law of Action-Reaction
- D. Law of Force

3.The work done by a force of 10 N moving an object 2 meters in the direction of the force is:

- A. 5 J
- B. 10 J
- C. 20 J
- D. 40 J

4.The moment of inertia of a solid sphere about its diameter is:

- A. $25MR252MR2$
- B. $35MR253MR2$
- C. $23MR232MR2$
- D. $12MR221MR2$

5. The value of the universal gravitational constant (G) is:

- A. $6.67\times10-116.67\times10-11$ N m²/kg²
- B. $6.67\times10-106.67\times10-10$ N m²/kg²
- C. $9.81\times10-119.81\times10-11$ N m²/kg²
- D. $9.81\times10-109.81\times10-10$ N m²/kg²

6. Young's modulus is defined as the ratio of:

- A. Stress to strain
- B. Strain to stress
- C. Force to area
- D. Force to displacement

7.The first law of thermodynamics is a restatement of:

- A. Law of conservation of mass
- B. Law of conservation of energy
- C. Law of conservation of momentum
- D. Law of conservation of charge

8. Which of the following is a postulate of the kinetic theory of gases?

- A. Gas particles have significant volume
- B. Gas particles are in continuous, random motion
- C. Gas particles exert attractive forces on each other
- D. The temperature of a gas is proportional to the volume

9.The time period of a simple pendulum depends on:

- A. Length of the pendulum
- B. Mass of the bob
- C. Amplitude of oscillation
- D. All of the above

10. Coulomb's law states that the force between two charges is:

- A. Directly proportional to the product of the charges and inversely proportional to the distance between them
- B. Directly proportional to the sum of the charges and inversely proportional to the distance between them
- C. Directly proportional to the difference of the charges and inversely proportional to the distance between them

- D. Directly proportional to the product of the charges and directly proportional to the distance between them

11. Ohm's law is mathematically represented as:

- A. $V=IRV=IR$
- B. $V=I/RV=I/R$
- C. $V=IR2V=IR2$
- D. $V=I2RV=I2R$

12. The SI unit of magnetic field strength is:

- A. Tesla
- B. Gauss
- C. Weber
- D. Henry

13. Faraday's law of electromagnetic induction states that the induced EMF in a coil is:

- A. Directly proportional to the rate of change of current
- B. Directly proportional to the rate of change of magnetic flux
- C. Inversely proportional to the rate of change of current
- D. Inversely proportional to the rate of change of magnetic flux

14. The root mean square (RMS) value of an AC current is:

- A. $ImaxImax$
- B. $Imax22Imax$
- C. $Imax22Imax$
- D. $Imax\times2Imax\times2$

15. Electromagnetic waves travel through a vacuum at the speed of:

- A. Sound
- B. Light
- C. Air
- D. Water

BIOLOGY

1.Sickle cell Anemia is an example of

a) Sex linked inheritance

b) Deficiency disease

c) Autosomal heritable disease

d) Infectious disease

2.Fluoride pollution mainly affects

a) teeth

b) kidney

c) brain

d) heart

3.What is the intensity of sound in normal conversation ?

a) 10-20 db

b) 30-60db

c) 70-90 db

d) 120-150db

4.Which of the following is pollution related disorder?

a) Fluorosis

b) Leprosy

c) Pneumoconiosis

d) Silicosis

5. Relative Biological Effectiveness (RBE) usually refers to the damages caused by

a) low temperature

b) high temperature

c) radiation

d) pollution

6.The most common indicator organism which represents polluted water is

a) Escherichia coli

b) Salmonella typhi

c) Vibrio cholera

d) Entamoeba histolytica

7. Greenhouse effect is is warming due to

a) infra-red rays reaching on earth

b) moisture layer in atmosphere

c) increase in temperature due to increase in carbon dioxide concentration of atmosphere

d) ozone layer of atmosphere

8. Major aerosol pollutant in jt plane emission is

a) sulphur dioxide

b) carbon monoxide

c) methane

d) chlorofluro-carbons

9.Which of the extensive metals are used as catalysts converters and are fitted into automobiles for reducing emission of poisonous gases?

a) Platinum, palladium, rhodium
b) cadmium, rhodium
c) copper, cadmium
d) Lead, mercury

10.Which of the following level of sound may damage eardrum and can impair the hearing ability permanently?

a) 80 dB

b) 100 dB

c) 120 dB

d) 150Db

11.Pollution causes undesirable changes in which the following characteristics of air, water, land or soil?

a) physical

b) chemical

c) biological

d) all of these

12.The term ecosystem was coined by

a) A G Tansley

b) E P Odum

c) E Haeckel

d) E Warming

13.To improve the quality of environment the (air, water and soil) the Govt of India passed the environment protection act in the year of

a)1981

b)1986

c)1987

d)1974

14. Study of inter-relationships between living organisms and their environment is

a) Ecology
b) Ecosystem
c) Phytogeography
d) Ethology

15.The reservoir of the gaseous type of bio-geo chemical cycle exists in

a) atmosphere
b) stratosphere
c) ionosphere
d) lithosphere

CHEMISTRY

1. Wax is an example of:
   (a) Ionic crystal
   (b) Covalent crystal
   (c) Molecular crystal

(d) Metallic crystal

2. In a crystal, the atoms are located at the position of ……. potential energy.
(a) Zero
(b) Infinite
(c) Minimum
(d) Maximum

3. In a solid lattice the cation has left a lattice site and is located at an interstitial position. The lattice defect is known as:
(a) Interstitial defect
(b) Valency defect
(c) Frenkel defect
(d) Schottky defect

4. Ionic solids with Schottky defects contain in their structure:
(a) Equal number of cations and anion vacancies
(b) Interstitial anions and anion vacancies
(c) Cation vacancies only
(d) Cation vacancies and interstitial cations

5. Which crystal has the largest lattice energy?
(a) KCl
(b) MgO
(c) LiBr
(d) NaF

6. A substance Axby crystallizes in fcc lattice in which atom 'A' present each corner of the cube and atom B occupy the center of each face of the cube. The formula of the compound is
(a) AB3
(b) A4B3
(c) A3B
(d) AB2

7. There are……primitive and…… centered unit cells
(a) 6, 7
(b) 7, 7
(c) 6, 6
(d) 7, 6

8. According to collision theory
(a) all collisions are sufficiently violet
(b) all collisions are responsible for product formation
(c) all collisions are effective
(d) only a fraction of collisions is effective which have enough energy to form products.

9. In the orthorhombic crystal system the edge length and axial angles are…….and …. respectively.

(a) a □ b □ c, □ □ □ □ □ □ 90^0

(b) a □ b □ c, □ □ □ □ □ □ 90^0

(c) a □ b □ c, □ □ □ □ □ □ 90^0

(d) $a = b = c, \square\square\square\square\square\square 90^0$

10. A unit cell consists of a cube in which there are 'A' atoms at the corners and 'B' atoms at the face centered and 'A' atoms are missing from 2-corners in each unit cell. The formula of the compound .

(a) AB_3
(b) A_2B
(c) AB_4
(d) A_3B_4

11. Octahedral voids are present / unit cell of ccp or fcc at

(a) at the body cube
(b) at the center of each edge
(c) both (a) and (b)
(d) no. of octahedral void = no. of tetrahedral void.

12. In the ABAB - Pattern of packing (hcp) –

(a) Tetrahedral voids of second layer is covered
(b) fourth layer atom is aligned with 1st layer atom
(c) Octahedral voids of 2nd layer are covered in 3rd layer.
(d) both octahedral and tetrahedral voids are covered.

13. The co-ordination number one dimensional close packing is

(a) 2
(b) four
(c) six
(d) Zero

14. What type of solid is p-nitrophenol?

(a) Ionic
(b) Covalent
(c) Molecular
(d) H-bonded molecular solid

15. Which of the following solids is considered as liquid at all temperature?

(a) Quick lime
(b) horn silver
(c) glass
(d) gypsum