SEAT NO:____   SUPERVISOR'S SIGN:_____

UNIVERSITY OF MUMBAI'S
GARWARE INSTITUTE OF CAREER EDUCATION AND DEVELOPMENT
POST GRADUATE DIPLOMA IN PHARMA MANAGEMENT
ENTRANCE EXAMINATION

Date: 15th July 2017   Time:11 am to 12 noon   Marks:50

Note: 1) Write your **SEAT NO** on this answer sheet
2) All questions are compulsory
3) Attempt Multiple Choice Questions by ticking (✓) on this answer sheet
4) Rough work should not be done on ANSWER SHEET. A blank page is enclosed for rough work
5) There is no negative marking.

I] MULTIPLE CHOICE QUESTIONS (25 Marks)

1. Which of the following is not considered a simple carbohydrate?
   A. Glucose   B. Cellulose   C. Fructose   D. Sucrose

2. SDS-PAGE of tissue proteins under denaturation determines the
A. Hydrogen bond breakage   B. Sulfide bridge breakage
C. Subunits of protein   D. None of the above

3. For proper formation of teeth, _____ is essential.

A. Iodine   B. copper   C. fluorine   D. iron

4. The use of anthropoid hazard chemicals like DDT causes reduction in fish population because the chemical mimics the effect of

A. Luteinizing hormone   B. Testosterone
C. Estrogen   D. All of the above

5. LAN is an abbreviation for?
A. Large Access Network   B. Local Access Network
C. Large Area Network   D. Local Area Network

6. Digestion of food is completed in the _____.
A. small intestine   B. large intestine   C. stomach   D. Liver

7. Litmus paper that is blue will turn/stay _____ in the presence of a strong base.

   A. Orange   B. Red   C. Blue   D. Green

8. Communications bandwidth that has the highest capacity and is used by microwave, cable and fibre optics lines is known as

   A.Hyper-link   B. broad band   C. Bus width   D. carrier wave

9. ICT stands for:
A. International Communication Technology
B. Intra Common Technology
C. Information & Communication Technology
D. Inter Connected Terminals

10. The current Governor of Reserve Bank of India is
   A. Urjit Patel   B. Raghuram Rajan
   C.Manmohan Singh   D. Narendra Modi

11. If Sunday falls on 11th June 2017, what was the day on 10th June 2016?

   A.Thursday   B. Sunday   C.Friday   D. Saturday

12. $5a + 15 = 25$ then $a = ?$
   A. 1   B. 4   C. 2   D. 5

13. The letters in the first set have certain relationship. On the basis of this relationship what is the right choice of second set? AST:BRU::NQV:?

   A.ORW   B.MRW   C. MPU   D. OPW

14. What is the next term in the following series DCXW, FEVU, HGTS, ?
   A. AKPO   B. ABYZ   C.JIRQ   D. LMRS

15. Which number comes next in the given sequence: 9,8, 8,8, 7,8, 6,_
   A. 5   B. 6   C. 8   D. 4

16. Intake of lead may primarily cause the damage of

   A Brain   B. Lung   C. Liver   D. Kidney

17. The country which has the distinction of having the two largest circulated newspapers in the world is
   A. Great Britain   B. The United States   C. Japan   D.China

18. The University which telecasts interaction educational programmes through its own channel is
   A. Osmania University
   B. University Of Pune
   C. Annamalai University
   D. Indira Gandhi National University(IGNOU)

19. Ozone depletion is caused by the increase in the level of

   A. Water vapours   B. Chlorofluoro carbon   C. Oxygen   D. Carbon monoxide

20. Cholesterol that is known as (LDL) stands for:

   A. Low-density lipoproteins

   B. Low-density lysosomes

   C. Level-density lipoproteins

   D. Level-density lysosomes

21. Carrot is good source of Vitamin?

   A. A   B. B complex   C. C   D. D

22. The largest ocean of the world is
   A. Atlantic   B. Pacific   C. Indian   D. None of these

23. Which of the following formulas indicates Newton's second law of motion?

   A. F = ma   B. F = mva   C. v = d/t   D. p = mv

24. If a large number of people are enclosed in a room, then

A. Oxygen decreases and carbon dioxide increases

B. Oxygen increases and carbon dioxide decrease

C. Both oxygen and carbon dioxide decrease

D. Both oxygen and carbon dioxide increase

25. The national anthem was written by
 A. Bankim Chandra Chatterjee   B. Rabindranath Tagore
 C. Sarat Chandra Chatterjee   D. Aurobindo Ghosh

II] ANSWER THE FOLLOWING: (15 Marks)

1. How can "Stem Cell Banking" be beneficial?

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2. Discuss the Impacts of GST on the Pharmaceutical Industry.

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3. Give your opinion on the growing trend of online marketing of goods and
services

III] GIVE THE FULL FORMS OF THE FOLLOWING: (10 Marks)

1. MBA: _____
2. HPLC: _____
3. GST: _____
4. MMRDA: _____
5. ATM: _____
6. ISRO: _____
7. JNU: _____
8. UNICEF: _____
9. GTP: _____
10. HIV: _____

*   *   *   *

UNIVERSITY OF MUMBAI'S'S
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
P.G. DIPLOMA IN PHARMA MANAGEMENT
(PGDPM)
ENTRANCE EXAM

DATE: 30-07-16   TIME : 11.00AM TO 12.00 NOON   MARKS : 50

NOTE:
- ➤ DO NOT CARRY YOUR MOBILE IN THE EXAMINATION HALL
- ➤ WRITE YOUR **SEAT NO** ON THIS ANSWER SHEET
- ➤ ALL QUESTIONS ARE COMPULSORY
- ➤ ANSWER THE QUESTIONS BY TICKING (√) ON THIS ANSWER SHEET
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Q.1)

1. If first letter is interchanged by second, third by fourth, fifth by sixth and so on in the word HABILITATE then which will be the 8th letter from your left in the new word?
   (A) L   (B) E
   (C) T   (D) A

2. If the following words are arranged according to the dictionary order then which will be the second word in that order?
   (A) Expound   (B) Exposure
   (C) Expulsion   (D) Expose

3. 7, 12, 19, 28, 39, ?
   (A) 52
   (B) 50
   (C) 51
   (D) 48

4. If STRAY is coded as TUSBZ then how will MOURN be coded?
   (A) LPVSO   (B) NPVSO
   (C) NVPSO   (D) NPSVO

5. If Sand is coded as Brick, Brick as House, House as Temple, Temple as Palace then where do you worship?
   (A) Palace   (B) Temple
   (C) Brick   (D) House

6. As 'Tennis' is related to 'Racket' in the same way 'Hockey' is related to what?
   (A) Ball   (B) Stick
   (C) Field   (D) Player

7. As 'Fly' is related to 'Parrot' in the same way 'Creep' is related to what?
   (A) Snake
   (B) Rabbit
   (C) Fish
   (D) Crocodile

8. Select the correct option in place of the question mark.
   AOP, CQR, EST, GUV, ?
   (A) IYZ   (B) HWX
   (C) IWX   (D) JWX

9. If BAT is coded as 283, CAT is coded as 383 and ARE is coded as 801, then the code for BETTER is—
   (A) 213310   (B) 213301
   (C) 123301   (D) 012334

10. Arrange the given words in a meaningful sequence: 1. Adult   2. Child   3. Infant   4. Boy   5. Adolescent
    (A) 1, 3, 4, 5, 2   (B) 2, 3, 5, 4, 1
    (C) 2, 3, 4, 1, 5   (D) 3, 2, 4, 5, 1

11. Pointing out to a lady, a girl said, "She is the daughter-in-law of the grandmother of my father's only son." How is the lady related to the girl?
    (A) Sister-in-law   (B) Mother
    (C) Aunt   (D) Can't be determined

12. On which date, Pravasi Bhartiya Divas (PBD) is celebrated in India?
    (A) January 4   (B) January 6
    (C) January 9   (D) January 11

13. Which among the following is the correct decreasing of bio-elements in Human Body?

[A]oxygen, hydrogen, Carbon, nitrogen, calcium, and phosphorus

[B]oxygen, carbon, nitrogen, hydrogen, calcium, and phosphorus

[C]oxygen, carbon, hydrogen, nitrogen, calcium, and phosphorus

[D]carbon, oxygen, hydrogen, nitrogen, calcium, and phosphorus

14. Which among the following is popularly called Hypo?

[A]Silver bromide

[B]Silver nitrate

[C]Sodium thiosulphate

[D]Sodium phosphate

15. What is the theme of the 2016 World Down syndrome Day?

[A]Build an inclusive society for all

[B]Let Us In – We Want to Work!

[C]My friends, My Community

[D]Neighbours and My Country

16. In the manufacture of Vanaspati ghee from vegetable oils, which among the following gas is used?

[A]N_2 [B]CO_2

[C]H_2 [D]Ne

17. Highest percentage of nitrogen is found in which among the following fertilizers among the given options?

[A]Calcium ammonium nitrate

[B]Ammonium nitrate

[C]Calcium nitrate

[D]Urea

18. Who among the following is associated with the discovery of rings of Saturn?

[A]Galileo

[B]Newton

[C]Edmund Halley

[D]Christian Huygens

19. Which among the following oxides cause the Acid rain ?

[A]CO and CO_2 [B]NO_x and SO_2

[C] CO_2 and NO_x [D] SO_2 and CO

20. Base sequence on one strand of DNA is GCATG. Replicating complementary strand has:

(A) GCATG

(B) GCATC

(C) CGTAC

(D) ATGCG

21. The aqueous solution of which among the following acids is called Vinegar?

[A]Oxalic acid   [B]Citric acid

[C]Acetic acid   [D]Hydrochloric acid

22. Which of the following is the best criteria of purity of organic compounds?

[A]Melting point   [B]Mixed melting point

[C]Color   [D]Microscopic examination

23. In E.coli, ribosomes are made up of

(A) protein   (B) lipids

(C) RNA   (D) DNA

24. Penicillin is an example of

(A) Hapten   (B) Halogen

(C) Interferon   (D) None of the above

25) FDA stands for

(A) Food and Drug Administration

(B) Food and Drug Authorization

(C) Food and Disease Administration

(D) Food and Drug Accrediation

26) Digestion of food is completed in the .

(A)small intestine   (B) large intestine

(C) stomach   (D) Liver

27) Amino acid which accumulates as a result of stress is

(A) proline   (B) cysteine

(C) methionine   (D)histidin

28) Chromosome ends are called

(A) Satellites   (B) Telomeres

(C) Centromeres   (D) Kinetochores

29) Which one is a hereditary disease:

(A) Cataract   (B) Leprosy

(C) Blindness   (D) Phenylketonuria

30. Intake of lead may primarily cause damage to

(A) Brain   (B) Lung

(C) Liver   (D) Kidney

Q. II) Give the full-forms of the following: 8 marks

    1. TLC: _____

    2. GCMS:_____

    3. APHA: _____

    4. UNESCO:_____

          _____

    5. ISRO: _____

    6. QC:_____

    7. FDA: _____

    8. R&D:_____

Q. III) A) Give your comment regarding whether the ban on more than 300 drugs recently in India was a good decision taken by the Health Ministry?   4 marks

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Q. II   B) What is your opinion on employment opportunities in India in comparison with other developing countries?   4 marks

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Q. IV) Match the following: 4 marks

1. Mitosis   a. N/m^2
2. Meiosis   b. Boron, Silicon
3. Laughing gas   c. Solid CO_2
4. Dry ice   d. Haploid daughter cells
5. Metalloid   e. dB
6. Radioactive   f. Nitrous oxide
7. Pressure   g. Diploid daughter cells
8. Sound   h. Uranium, Radium
                                    i. Argon, Xenon

——————— X ———————

SEAT NO. : _____   SUPERVISOR SIGN.: _____

UNIVERSITY OF MUMBAI'S'S
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
P.G. DIPLOMA IN PHARMA MANAGEMENT
(PGDPM)
ENTRANCE EXAM

DATE: 12-JUL-16   **TIME : 11.00AM TO 12.00 NOON**   **MARKS : 50**

NOTE:
- ➢ DO NOT CARRY YOUR MOBILE IN THE EXAMINATION HALL
- ➢ WRITE YOUR **SEAT NO** ON THIS ANSWER SHEET
- ➢ ALL QUESTIONS ARE COMPULSORY
- ➢ ANSWER THE QUESTIONS BY TICKING (√) ON THIS ANSWER SHEET
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Q. I)

1. If first letter is interchanged by sixth letter, second by seventh and so in the word INTERVOLVE then which will be the sixth letter from your right in the new word' ?
(A) L   (B) E
(C) V   (D) O

2. If the following words are arranged according to the dictionary order then which word will come in the middle?
(A) Gunny   (B) Gunnery
(C) Gunmetal   (D) Gunpowder

3. Z, T, O, K, H, ?
(A) E
(B) J
(C) F
(D) D

4. If DOWN is coded as FQYP then how will WITH be coded?
(A) KYN   (B) JYK
(C) YKVJ   (D) JKVY

5. If Rajdoot is coded as Car, Car as Aeroplane, Aeroplane as Train, Train as Bus, then by which vehicle can you reach your destination in least time? .
(A) Aeroplane   (B) Train
(C) Car   (D) Bus

6. As 'Earthquake' is related to 'Earth', similarly 'Thundering' is related to what?
(A) Earth   (B) Sea
(C) Fair   (D) Sky

7. As 'Circle' is related to 'Circumference' in the same way 'Square' is related to what?
(A) Diagonal
(B) Perimeter
(C) Circumference
(D) Area

8. Fill in the missing letter in the following series— S, V, Y, B
(A) C   (B) D
(C) E   (D) G

9. Arrange the words given below in a meaningful sequence: 1. Poverty 2. Population 3. Death   4. Unemployment   5. Disease
(A) 2, 3, 4, 5, 1   (B) 3, 4, 2, 5, 1
(C) 2, 4, 1, 5, 3   (D) 1, 2, 3, 4, 5

10. If BAT is coded as 283, CAT is coded as 383 and ARE is coded as 801, then the code for BETTER is:
(A) 213310   (B) 213301
(C) 123301   (D) 012334

11. Simmi's father's wife's father's granddaughter's uncle will be related to Simmi as
(A) Son
(B) Uncle
(C) Nephew
(D) Grand father

12. Which among the following dates will be annually observed as 'International Day of Yoga'?
[A]21 June   [B]21 July
[C]17 June   [D]30 June

13. "Atoms can neither be created nor destroyed." This principle was given by __?
[A]Avogadro   [B]Dalton
[C]Rutherford   [D]Niels Bohr

14. Lichens, which are capable of initiating ecological succession even on a bare rock, are actually a symbiotic association of __:
[A]algae and bacteria   [B]algae and fungi
[C]bacteria and fungi   [D]fungi and mosses

15. Which among the following are constituents of Brass?
[A]Zinc and Copper   [B]Iron and Zinc
[C]Copper and Nickel   [D]Iron and Copper

16. Which among the following acids is abundant in Grapes, Bananas and Tamarind?
[A]Lactic Acid   [B]Oxalic Acid
[C]Salicylic Acid   [D]Tartaric Acid

17. Which among the following is called Laughing Gas popularly?
[A]Nitric oxide   [B]Nitrous oxide
[C]Nitrogen penta oxide [D]Nitrogen Hide

18. Which among the following is a Noble Gas?
[A]Nitrogen   [B]Hydrogen
[C]Oxygen   [D]Helium

19. Which among the following is the main constituent of Biogas?
[A]Methane   [B]Propane
[C]Butane   [D]Ethane

20. Which of the following is the most active chemically?
[A]Chlorine   [B]Fluorine
[C]Lithium   [D]Iodine Hide

21. Which among the following is not among the ancient list of seven wonders of world?
[A]Statue of Zeus at Olympia
[B]Great Wall of China
[C]Colossus of Rhodes
[D]Lighthouse at Alexandria

22. The power of a plant cell is:
A) Nucleus   B) Golgi bodies
C) Mitochondria   D) Lysosomes

23) Phytochrome is
A) a harmone
B) a pigment
C) a pigment as well as hormone
D) none of the above

24) Chromosomes consist of
A) DNA
B) RNA
C) Proteins
D) All of the above

25) Non- specific immune response includes
A) Inflammation
B) Phagocytosis
C) Interferon
D) All of the above

26) Sedimentation unit of ribosome is
A) Micron   B) Millimicron
C) Angstrom   D) Svedberg units

27) MMR is a combined vaccine for:
1) Measles 2)Mumps 3) Influenza   4) Rubella
A) 1,2 & 3   B) 1,2 &4   C) 1,3 & 4   D) 1,2,3,4

28) The World Tuberculosis Day is observed on which date? [A]February 10 [B]March 24 [C]March 28 [D]April 5

29) Which of the following is a non-edible fungus?
A) Mushroom   B) Puff balls
C) Truffle   D) Mucor

30) Pharmacy Council Of India is located at
A. Mumbai
B. Banglore
C. Chennai
D. New Delhi

Q. II) Give the full-forms of the following: 8 marks

1. VOC: _____

2. HPLC: _____

3. BIS: _____

4. IIM: _____

5. ISRO: _____

6. QA: _____

7. ISO: _____

8. AIDS: _____

Q. III) A) Give your comment regarding whether the ban on more than 300 drugs recently in India was a good decision taken by the Health Ministry? 4 marks

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Q. III. B) How important is digital marketing using social media like facebook, twitter, etc... in creating awareness about the latest developed drugs?   4 marks

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Q , 1V) Match the following: 4 marks

1. Fungi   a. N/m^2
2. Laughing gas   b. Boron, Silicon
3. Virus   c. Solid CO_2
4. Dry ice   d. Rotavirus
5. Metalloid   e. dB
6. Baking soda   f. Nitrous oxide
7. Pressure   g. Penicillium
8. Sound   h. Uranium, Radium
                                i. Argon, Xenon
                                j. Sodium bicarbonate

——— X ———

UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
P.G. DIPLOMA IN PHARMA MANAGEMENT
(PGDPM)
ENTRANCE EXAM
SECOND ROUND

DATE: 05-Aug-15   TIME : 11.00AM TO 12.00 NOON   MARKS : 50

NOTE:
- ➢ DO NOT CARRY YOUR MOBILE IN THE EXAMINATION HALL
- ➢ WRITE YOUR SEAT NO ON THIS ANSWER SHEET
- ➢ ALL QUESTIONS ARE COMPULSORY
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2) All questions are compulsory   3) Answer the questions by ticking (✓) on this answer sheet   4) Rough work should not be done on ANSWER SHEET. A blank page is enclosed for rough work   5) There is no negative marking.

1. Find out the number which should come at the place of question mark which will complete the following series: 5, 4, 9, 17, 35, ? = 139
a. 149   b. 79   c. 49   d. 69

2. The letters in the first set have a certain relationship. On the basis of this relationship mark the right choice for the second set: BDFH : OMKI : : GHIK : ?
a. FHJL   b. RPNL   c. LNPR   d. LJHF

3. In a certain code language, PUNE is written as SXQH. How would you write DELHI in this language?
a. FGNJL   b. FGNJK   c. GHOKMd. GHOKL

4. Metals are good conductors of electricity because
    a. they contain free electrons
    b. the atoms are lightly packed
    c. they have high melting point
    d. All of the above

5. Isotopes of an element contain
a. the same number of protons but different number of neutrons
b. the same number of neutrons but different number of protons
c. equal number of protons and electrons
d. equal number of nucleons

6. Sir C.V. Raman was awarded Nobel Prize for his work connected with which of the following phenomenon of radiation?
a. Scattering   c. Interference
b. Diffraction   d. Polarization

7. One nanometer is equal to
a. 10^{-6}m   c. 10^{-8}m
b. 10^{-9}m   d. 10^{-5}m

8. Light year is a unit of
a. Time c. Light
b. Distance   d. Intensity of light

9. Light Emitting Diodes (LED) is used in fancy electronic devices such as toys emit
a. X-rays   c. visible light
b. ultraviolet light   d. radio waves

10. Planets are
a. luminous heavenly bodies revolving around a star
b. luminous heavenly bodies that twinkle
c. non-luminous heavenly bodies
d. luminous heavenly bodies that do not twinkle

11. Natural radioactivity was discovered by
a. Marie Curie
b. Ernest Rutherford
c. Henry Becquerel
d. Enrico Fermi

12. Intensity of sound at a point is _____ its distance from the source.
a. directly proportional to
b. inversely proportional to
c. directly proportional to square of
d. inversely proportional to square of

13. "Sex-linked genes" refer to genes:
    (a) present in a particular sex
    (b) controlling secondary sexual characters
    (c) controlling both primary and secondary sexual characters
    (d) present on the sex chromosomes

14. Smog is_____
a. Fog + Ash   c. Smoke + Fog
b. $CO + H_2$ d. Smoke + Ash

15. Rectifiers are used to convert
a. Direct current to Alternating current
b. high voltage to low voltage
c. Alternating current to Direct current
d. low voltage to high voltage

16. Okazaki is famous for his studies on:
    a. DNA replication   b. somatic mutions
    c.gene expression   d. somatic hybridization

17. Bleaching Powder is prepared by passing chlorine through
a.Milk of limeb.Limestone
c.Dry lime   d.Quicklime

18. Anions have:
    a. Positive charge   b. negative charge
    d. No charge   d. charge can't be predicted

19. DDT is a_____
a. Non-biodegradable pollutant
b. Biodegradable pollutant
c. Antibiotic
d. All of the above

20. Which of the following is not considered a simple carbohydrate?
a. Glucose   c. Fructose
b.Cellulose   d. Sucrose

21. Which of the following microorganisms is anaerobic, symptoms occur after 8-18 hours including nausea, vomitting, abmonial pain and diarrhea? It is also called the cafeteria bug.

    a.Clostridium botulinum   b. Bacillus cerus
    c. Staphylococcus aureusd.Clostridiumperfringens

22. The cell theory is not applicable
    toa.Bacteriab.Virusc.algaed. fungi

23. The first recombinant antigen vaccine approved forhuman use is
a. Hepatitis B vaccine   b. Hib vaccine
c. Var vaccine d.DPT vaccine

24. The most abundant biomolecule on earth
a. proteins   b. lipids   c. nucleic acids   d. Carbohydrates

25. Development of fruits without fertilization is called
a. aposporyb. parthenocarpy   c. parthenogenesis
d. polygamy

26.   Pharmacy Council Of India is located at
a.New Delhib. Lucknow   c. Banglore   d. Jaipur

27.   Hardening of the arteries is known as:
a.Atheriosclerosis   b.Micro-circulation
c.Venous narrowing d.Hypertension

28. The life span of RBC   a. 100 days   b. 110 days
c. 120 days   d. 130 days

29. What causes wind to defect toward left in the Southern hemisphere?
a.Temperature   b. Magnetic field
c.Rotation of the earth   d.Pressure

30. What is the name of the iron-containing protein that gives red blood vessels their colour?
a. Hemocyanin   b. Hemoglobin
c. Pyrited. Myoglobin

31. The causative agent for AIDS was first of all identified in 1984 and was named as
a. HIV-1b.LAV   c. HIV-2d.HTLV III

32. All are nutritional disorders associated with overnutrition except
a.hypervitaminosisb.fluorosis
c.obesityd.Osteomalacia

33. Botulism caused by *Clostridium botulism* affects the
a.Lymph glands b.Intestinec. Spleen   d. Central Nervous System

34. Ability to fix atmospheric nitrogen is found ina.Leaves of some crop plantsb.Chlorellac.Some marine red algae
d. Some blue green algae

35. The role of phosphate in detergent powder is to
a. Control pH level of the detergent water mixture
b. Remove Ca^{2+} and Mg^{2+} ions from the water that causes the hardness of water
c. Provide whiteness to the fabrics
d. Form solid detergent as phosphate-less detergent are liquid in nature

36.   India's largest commercial bank is
a.   Central Bank of India
b.   State Bank of India
c.   Indian Oversea Bank
d.   Bank of India

37. Six books, A, B, C, D, E and F are placed side by side. B, C and E have blue cover and the other books have red cover. Only D and F are new books and the rest are old. A, C and D are law reports and other are Gazetteers. What book is a new law report with a red colour? Which of the statements given above is/are correct?
    a. A   b. B   c. C   d. D

38. A state in India has the following characteristics:
1. Its northern part is arid and semi-arid.
2. Its central part produces cotton.
3. Cultivation of cash crops is predominant over food crops.
Which one of the following states has all of the above characteristics?
a.Andhra Pradesh   b. Gujarat
c. Karnataka   d. Tamil Nadu

39. Immunisation of mother against tetanus provides immunity to the new born for a period of
a. 1month   b.3 months   c. 6 months   d.12 months

40. Find the next letters of the following series
    O , T, T, F, F, S , ...
a.   S N b. SE c. S T d. SO

41. The latitudes that pass through Sikkim also pass through
a.Rajasthan   c. Himachal Pradesh
b. Punjab   d. Jammu & Kashmir

42. In a certain code RIPPLE is written as 613382 & LIFE is written as 8192. How is PILLER written in that code?
a. 318826 b. 318286 c. 618826   d. 328816

43. Anil is twice as old as Sunita. Three years ago, he was three times as old as Sunita. The present age of Anil is
a. 6 years   b. years   c.12 years   d.16 years

44. Benzene reacts with chlorine in sunlight to give a final product
a.C_6H_5Cl b.C_6Cl_6 c. $C_6H_6Cl_6$ d.CCl_4

45. One mole of which of the following has the highest entropy?
a. liquid nitrogen   c. mercury
b. hydrogen gas   d. diamond

46. The coordination number of Al in the crystalline state of $AlCl_3$ is
a. 4 b. 6   c. 8 d. 10

47. In a meeting, the map of a village was placed in such a manner that south – east becomes north, north – east becomes west and so on. What will south become?
a. North   b. West c.North –east d.North-west

48. A person X has four notes of Rupee 1, 2, 5 and 10 denomination. The number of different sums of money she can form from them is
a. 16   b. 15   c. 12   d. 8

49. A layer in the Earth's atmosphere called Ionosphere facilitates radio communication. Why?
1. The presence of ozone causes the reflection of radio waves to Earth.
2. Radio waves have a very long wavelength.
Which of the statements given above is/are correct?
a.1 only   b. 2 only   c. Both 1 and 2   d. Neither 1 nor 2

50. Bandipur Sanctuary is located in the State of
a.Tamil Nadu   b. Uttar Pradesh
c.Karnataka   d. Madhya Pradesh

UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
P.G. DIPLOMA IN PHARMA MANAGEMENT
(PGDPM)
ENTRANCE EXAM

DATE: 22-Jul-15   TIME : 11.00AM TO 12.00 NOON   MARKS : 50

NOTE:
> DO NOT CARRY YOUR MOBILE IN THE EXAMINATION HALL
> WRITE YOUR SEAT NO.ON THIS ANSWER SHEET
> ALL QUESTIONS ARE COMPULSORY
> ANSWER THE MULTIPLE CHOICE QUESTIONS BY TICKING (√) ON THIS ANSWER SHEET
> ROUGH WORK SHOULD NOT BE DONE ON ANSWER SHEET. A BLANK PAGE IS ENCLOSED FOR ROUGH WORK
> THERE IS NO NEGATIVE MARKING

1. In a certain code, CLOCK is written as KCOLC. How would STEPS be written in that code?   (A) SPEST
(B) SPSET   (C) SPETS   (D) SEPTS

2. Which number is missing in the following series?2, 5, 10, 17, 26, 37, 50, ?(A) 63   (B) 65   (C) 67   (D) 69

3. What is blog?   (A) Online music   (B) Intranet
(C) A personal or corporate website in the form of an online journal   (D) A personal or corporate Google search

4.P is the brother of Q; Q is the son of R; S is R's father. What is P of S ?   (A) Son(B) Brother(C) Grandson(D) Grandfather

5. Find the odd man out :(A) Zinc(B) Iron(C) Iodine(D) Mercury

6. Statistical tables can be generally generated on :

(A) Microsoft Word(B) Excel(C) PowerPoint(D) Paint Brush

7. India is on the verge of eradicating which of the following diseases?

(A) Poliomyelitis(B) Leprosy(C) Malaria(D) Lymphatic Filariasis

8. Which of the following states/union territories has the lowest sex ratio as per 2011 census?
(A) Haryana   (B) Bihar   (C) Uttar Pradesh   (D) Chandigarh

9. "Sex-linked genes" refer to genes:
(A) present in a particular sex
(B) controlling secondary sexual characters
(C) controlling both primary and secondary sexual characters
(D) present on the sex chromosomes

10. Light year is a unit of
(A) Time (B) Light (C) Distance (D)Intensity of light

11. Natural radioactivity was discovered by
(A) Marie Curie   (B)Ernest Rutherford
(C) Henry Becquerel   (D)Enrico Fermi

12. Identify the incorrect form of addressing any dignitory :
(A) Cabinet Minister—Honourable
(B) Mayor—Honorable
(C) Governor—Your Excellency
(D) Judge—Your Excellency

13. Which of the following is not a Professional Course ?
(A) Pharmacy (B) Law (C) Engineering (D) Fine Arts

14. In a fuel cell driven vehicle, the energy is obtained from the combustion of
(A) Methane (B) Hydrogen (C) LPG   (D) CNG

15. Richter scale is used to measure :
(A) Wind velocity   (B) Siesmic vibrations
(C) Intensity of light   (D) Volume of water

16.In this series 6,4,1,2,2,8,7,4,2,1,5,3,8,6,2,2,7,1,4,1,3,5,8,6 How many pairs of successive numbers have a difference of 2 each?   (A) 4   (B) 5   (C) 6   (D) 8

17. High tide and low tide is influenced by :
(A) Rotation of the earth
(B) Revolution of the earth
(C) Phases of the moon
(D) Supernatural forces.

18. The apex institution/institutions for engineering education and research in India is/are :(A) Indian Institutes of Technology(B) Indian Institutes of Information Technology(C) Indian Institute of Advanced Study(D) Association of Indian Universities

19. Match from List – I and List – II:

List – I	List – II
a. World No Tobacco Day	i. 31st May
b. International Day of the Girl Child	ii. 11th October
c. International Day for Eradication of Poverty	iii. 17th October
d. World AIDS Day	iv. 1st December

Codes:
       a b c d
(A) i ii iii iv
(B) ii iii iv I
(C) iii ii i iv
(D) iv iii ii i

20. Turners Syndrome is a Genetic disease related to abnormality of
(A) Chromosome 21   (B) Y chromosome
(C) Any Autosome   (D) Xchromosome

21. Which of the following statements are correct?1. There are seven Union Territories in India.2. Two Union Territories have Legislative Assemblies3.One Union Territory has a High Court.4.One Union Territory is the capital of two States.Select the correct answer from the codes given below:
(A) 1 and 3 only(B) 2 and 4 only(C) 2, 3 and 4 only(D) 1, 2, 3 and 4

22. Protein energy ratio is maximum for
(A) Fish   (B) Cow milk   (C) Tur dal   (D) Banana

23. A person has to buy both apples and mangoes. The cost of one apple is Rs 7/- whereas that of mango is Rs 5/- If the person has Rs. 38, the number of apples he can buy is
(A) 1   (B) 2   (C) 3   (D) 4

24. In Biostatistics all are the parameters excepts
(A) μ (B) N   (C) σ (D) n

25. If a = 5 q then 15 q = 3 p, then a=
(A)p   (B) 2 p   (C) 5 p   (D)10 p

26. Persistent carrier state for hepatitis-B refers to carriers of more than
(A) 3 months   (B) 6 months
(C) 9 months   (D) 12 months

27. Which of the following is a social network?
(A) amazon.com   (B) eBay
(C) gmail.com   (D) Twitter

28. A man pointing to a lady said, "The son of her only brother is the brother of my wife," The lady is related to the man as
(A) Mother's sister   (B) Grand mother
(C) Mother-in-law   (D) Sister of Father-in-law

29. Giving access to the suitable environment for ready expression of genes is called
(A) Eugenics   (B) Population Genetics
(C) Euthenics   (D) Human Genome Project

30. Population in which of the following countries has 100% access to both safe water and adequate sanitation
(A) Sri Lanka   (B) Maldives
(C) Thailand   (D) India

31. If water is called food, food is called tree, tree is called earth, earth is called world, which of the following grows a fruit?
(A) Water   (B)Tree   (C)World   (D)Earth

32. International Women's Day is celebrated on _____ every year
(A)14th February   (B) 8th March
(C) 1st March   (D) 8th June

33. Which of the following movie is adapted from the novel Five Point Someone-What not to do at IIT by*ChetanBhagat*?
(A)Kai Po Che (B)3 Idiots
(C)Hello   (D)2 States

34. Rare gases are
(A)mono atomic   (B)di atomic
(C)tri atomic   (D)None of above

35. What among following is used to produce artificial rain ?
(A)copper oxide   (B)carbon monoxide
(C)silver iodide   (D)silver nitrate
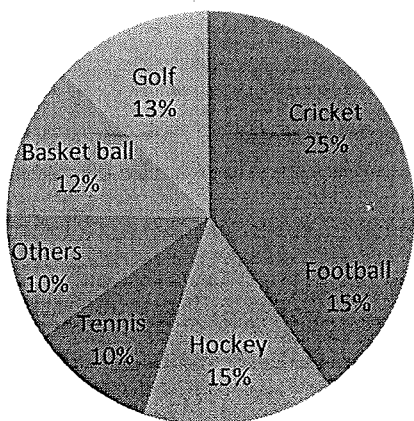
36. Human bone does not contain
(A) calcium   (B)carbon   (C)oxygen   (D)phosphorous

37.Water drops are spherical because of ?
(A)viscosity   (B)density   (C)polarity   (D)surfacetension

The following pie chart indicates the expenditure of a country on various sports during a particular year.
Study the pie chart and answer the question numbers from 38 to 41

38.The ratio of the total expenditure on football to that of expenditure on hockey is:
(A)1:15   (B) 1:1 (C)15:1 (D)3:20

39.If the total expenditure on sports during the year was Rs.1,50,00,000 how much was spent on cricket and hockey together?
(A)Rs. 6000000   (B)Rs. 3750000   (C)Rs. 5000000
(D)2500000

40.The chart shows that the most popular game in the country is:
(A)Hockey   (B)Football   (C)Cricket   (D)Tennis

41.Out of the following, the country's expenditure is same on:
(A)Hockey & Tennis   (B)Hockey & Football
(C)Golf &Basket ball   (D)Hockey & Golf

42.One nanometer is equal to
(A)10^{-6}m   (B)10^{-8}m   (C)10^{-9}m   (D) 10^{-5}m

43. Approximate Energy Expenditure in Kcal/hour on walking 4 kilometres/hour for 60 kg reference man is
(A)132   (B)160   (C)360   (D) 750

44. Atomic number is equal to
(A)Number of electrons(B)Number of neutron
(C)Number of protons   (D)Total number of nucleons

45.Which of the primary component of natural gas?
(A)Ethane   (B)Propane   (C)Methane
(D)Butane

46. The metallurgical process in which a metal is obtained in a fused state is called ?
(A)roasting   (B)calcinations
(C)smelting   (D)froth floatation

47. Which of the following gas is used in cigarette lighters ?
(A)Butane   (B)Propane
(C)Methane   (D)Ethane

48. FSSAI stands for
(A)The Food Safety and Standards Authority of India
(B) The Food Storage and Scrutinisation Academy of India
(C) The Food Storage and StandardizationAssembly of India
(D) The Food Safety and Security Academy Of India

49. Iodine can be separated from a mixture of Iodine and Potassium Chloride by ?
(A)Filtration   (B)Sublimation
(C)Distillation   (D)Sedimentation

50. OTC drugs are_____
(A) Over The Counter Drugs
(B) The drugs that require prescription
(C) Officially The Consumable Drugs
(D) Over The Development drugs

PGDPM

SEAT NO._____

UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
ENTRANCE EXAMINATION
P.G. DIPLOMA IN PHARMA MANAGEMENT (PGDPM)

DATE : 02/08/2014   **TIME : 11.00 AM TO 12.00 NOON**   **MARKS : 50**

Note: 1) Write your **SEAT NO** on this answer sheet
2) Answer any 50 questions by ticking (✓) on this answer sheet
3) Rough work should not be done on ANSWER SHEET. A blank page is enclosed for rough work
4) There is no negative marking.

1. Sound waves in air are
a. transverse
b. electromagnetic
c. polarized
d. longitudinal

2. Rainbow is due to
a. refraction and reflection of sunlight by water droplets
b. absorption of sunlight in minute water droplets
c. diffusion of sunlight through water droplets
d. ionization of water deposits

3. Stars which appear single to the naked eye but are double when seen through a telescope are
a. novas and supernovas
b. binaries
c. asteroids
d. quasars

4. It is easier to roll a stone up a sloping road than to lift it vertical upwards because
a. work done in rolling is more than in lifting
b. work done in lifting the stone is equal to rolling it
c. work done in both is same but the rate of doing work is less in rolling
d. work done in rolling a stone is less than in lifting it

5. Light travels at the fastest speed in
a. glass
b. vacuum
c. water
d. hydrogen

6. One thousand microns is equal to
a. 10^{-3}m
b. 10^{-6}m
c. 10^{-9}m
d. 10^{-12}m

7. The absorption of ink by blotting paper involves
a. viscosity of ink
b. capillary action phenomenon
c. diffusion of ink through the blotting
d. siphon action

8. Solar eclipse will take place when
a. the sun is between the moon and the earth
b. the earth is between the moon and the sun
c. the moon is between the sun and the earth
d. the moon does not lie on the line joining the sun and the earth

9. It is more difficult to walk on a sandy road than on a concrete road because
a. sand is soft and concreter is hard
b. the friction between sand and feet is more than that between concrete and feet
c. the sand is grainy but concrete is smooth
d. the friction between sand and feet is less than that between concrete and feet

10. Pa(Pascal) is the unit for
a. thrust
b. pressure
c. frequency
d. conductivity

11. "Sex-linked genes" refer to genes:
    a) present in a particular sex
    b) controlling secondary sexual characters
    c) controlling both primary and secondary sexual characters
    d) present on the sex chromosomes

12. Pharmacy Council Of India is located at
    a) New Delhi
    b) Banglore
    c) Lucknow
    d) Jaipur

13. Hardening of the arteries is known as:
    a) Atheriosclerosis
    b) Venous narrowing
    c) Micro-circulation
    d) Hypertension

14. The normal blood pressure of a healthy person is
    a. 120/100
    b. 110/90
    c. 120/80
    d. 120/90

15. The matrix of blood is known as
    a) Plasma
    b) Serum
    c) RBC and WBC
    d) WBC and platelets

16. Fluorosis is due to
    a) deficiency of fluorine
    b) excess of fluorine
    c) deficiency of calcium and fluorine
    d) none of these

17. The blood cancer is known as
    a) Haemolysis
    b) Leukaemia
    c) Haemophilia
    d) Thrombosis

18. Functions of carbohydrates include
    a) cell recognition
    b) cell to cell interaction
    c) imparting structure and store energy.
    d) All of the above

19. Cancer causing genes are called:
    a) operons
    b) oncogenes
    c) recons
    d) mutants

20. Which one of the following is a fast growing tree?
    a) Teak
    b) Eucalyptus
    c) Banyan.
    d) Coconut

21. High levels of bilirubin in the blood stream can result in:a) Uric acid overexposure   b) Jaundice
    c) Bile salt production   d) Hepatic mutation

22. The cell theory is not applicable to
    a) Bacteria
    b) algae
    c) Virus
    d) fungi

23. Plant cell wall mainly composed of
    a) cellulose
    b) starch
    c) protein
    d) lipid

24. The first vaccine was developed by
    a) Louis Pasteur
    b) Edward Jenner
    c) Carl Landsteiner
    d) Joseph Miester

25. The most abundant biomolecule on earth
    a) proteins
    b) lipids
    c) nucleic acids
    d) Carbohydrates

26. Which are the most primitive group of algae
    a) Blue green algae
    b) Red algae
    c) Brown algae
    d) Green algae

27. In a certain code HOUSE is written as FTVPI, how is CHAIR written in that code?
a) DIBJS
b) SHBGD
c) SBJID
d) SJBID

28. 120, 99, 80, 63, 48, ?
a) 35
b) 38
c) 39
d) 40

29. Sum of the numbers from 1 to 20 is _____
a. 210 b. 180 c. 310 d. 200

30. A car starts from a point A. Then it moves 4 KM towards South. Then it turns right and moves 3 KM. How far is it from point A now?
a. 4 km b. 5km c. 7km d.0km

31. In a class, 20 opted for Physics, 17 for math, 5 for both and 10 for other subjects. The class contains how many students?
a. 39 b. 42 c.43 d.50

32. What is the next number in the following pattern? 1, 1/2, 1/4, 1/8, ____
a) 1/10
b) 1/12
c) 1/14
d) 1/16

33. The birthday of which sportsperson is celebrated as National Sports Day?
a. Sunil Gavaskar
b. PT. Usha
c. Prakash Padukone
d. Dhyan Chand

34. The national anthem was written by
a)Bankim Chandra Chatterjee
b)Rabindranath Tagore
c)Sarat Chandra Chatterjee
d)Aurobindo Ghosh

35. If the digits of the number 5726489 are arranged in ascending order, how many digits will remain at the same position?
a) None
b) One
c) Two
d) Three

36. The total of the ages of Amar, Akbar and Anthony is 80 years. What was the total of their ages three years ago?
a) 71 years
b) 72 years
c) 74 years
d) 77 years

37. In the following question one term in the number series is wrong. Find out the wrong term.
8, 14, 26, 48, 98, 194, 386
a. 14 b. 48 c.98 d. 194

38. If $r = 5z$ then $15z = 3y$, then $r =$
a. y b. 2 y c. 5 y d.10 y

39. The Election commission of India situated in
a) Mumbai
b) Chennai
c) New Delhi
d) Kolkata

40. World AIDS Day is observed on -
a. 01 December b. 03 March
c. 02 November d. 15 September

41. Where is the Statue of Liberty located?
a) London, England
b) Brisbane, Australia
c) Auckland, New Zeland
d) New York, U.S.

42. Pablo Picasso, the famous painter was:
a. French
b. Italian
c. Flemish
d. Spanish

43. A terabyte comprises
a) 1024 gigabyte   c)1024 megabyte
b) 1024 kilobyted) 1024 byte

44. What term applies to a collection of related records in a database?
a) Field   c)Both a and b
b) File   d) None of the above

45. Device which allows your computer to connect to another computer via a phone line
a) Server   c) Jack
b) Modem   d) internet

46. Washing soda is the common name for
a) Sodium Carbonate   c)Sodium Bicarbonate
b) Calcium Bicarbonate d) Calcium Carbonate

47. Tetraethyl lead is used as
   a)pain killer   b)fire extinguisher
   c)mosquito repellent   d)petrol additive

48. Smog is_____
a. Fog+Ash   c. Smoke+Fog
b. CO+H2   d. Smoke + Ash

49. Dioxin is_____
a. A pesticide   c. a petrochemical
b. A heavy metal   d. an organic chemical

50. The composition of Compressed Natural Gas(CNG) is___
a. CH4, C2H6, C4H8 & other gases
b. CH4, (CO + H2)
c. CO+ N2
d. LPG + H2

51. G-15 is an economic grouping of
a)First World Nations
b)Second World Nations
c)Third World Nations
d)Fourth World Nations.

52. Aluminium is more dangerous and poisonous at a pH of
a. 5 b. 7 c. 5.7 d.6

53. The Contents of ____ are lost when the computer turns off?
   a) Input   c)Memory
   b) Output   d)Storage

54. _____ is a set of bits that represent a single character
   a) Ascii   c)byte
   b) Kilobyte   d) megabyte

55. Bleaching Powder is prepared by passing chlorine through
a) Milk of lime
b) Dry lime
c) Limestone
d) Quicklime

56. Heavy water is
a) deuterium oxide b)pH 7
c) rain water   d) tritium oxide

57. Bleaching Powder is prepared by passing chlorine through
   a) Milk of lime   c) Limestone
   b) Dry lime   d)Quicklime

58. Anions have:
a) Positive charge
b) negative charge
c) No charge
d) charge can't be predicted

59. DDT is a_____
a. Non-biodegradable pollutant
b. Biodegradable pollutant
c. Antibiotic
d. All of the above

60. Which of the following is a pharmaceutical company
a) Bayer
b) Sanofi Aventis
c) Both a and b are correct
d) Only a

———— X ————

PG DPM

SEAT NO. : ____

UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
P.G.DIPLOMA IN PHARMA MANAGEMENT
ENTRANCE EXAM

DATE : 20/07/13   TIME : 11.00AM TO 12.00 NOON   MARKS : 50

Note: 1) Write your **SEAT NO** on this answer sheet
      2) Answer any 50 questions by ticking (✓) on GRID PAPER.
      3) Rough work should not be done on ANSWER SHEET. A blank page is enclosed for rough work
      4) There is no negative marking.

1.   Out of the following, which is not emitted by radioactive substance?
    a) Electrons   b) Electromagnetic radiations   c) Alpha particles   d)Neutrons

2.   The inherited traits of an organism are controlled by
    a) RNA molecules   b) nucleotides   c) DNA molecules   d) enzymes

3.   The next number in the series: 2, 4, 12, 48, 240, is
    a) 960   b) 1440   c) 1080   d) 1920

4.   The minimum age to qualify for election to the Lok Sabha is
    a)25 years   b) 21 years   c)18 years   d) 35 years

5.   The recriprocal of wavelength is
    a) Wavenumber   b) wavevelocity   c) amplitude   d) frequency

6.   Entomology is the science that studies
    a) Behavior of human beings   b) Insects
    c) The origin and history of technical and scientific terms   d).The formation of rocks

7.   For safety, the fuse wire used in the mains for household supply of electricity must be made of metal having
    a) low melting point   b) high resistance   c) high melting point   d) low specific heat

8.   Federation Cup, World Cup, Allywyn International Trophy and Challenge Cup are awarded to winners of
    a) Tennis   b) Volleyball   c) Basketball   d) Cricket

9.   One of the following is not a function of bones.
    a)Place for muscle attachment   b)Protection of vital organs
    c)Secretion of hormones for calcium regulation in blood and bones d)Production of blood corpuscles

10.   Filaria is caused by
    a) Bacteria   b) Mosquito   c) Protozoa   d) Virus

11. RADAR is used for
    a) locating submerged submarines
    b) receiving a signals in a radio receiver
    c) locating geostationary satellites
    d) detecting & locating the position of aeroplanes

12. Ecology deals with
    a) Birds
    b) Cell formation
    c) Relation between organisms and their environment
    d) Tissues

13. Fire temple is the place of worship of which of the following religion?
    a) Taoism
    b) Judaism
    c) Zoroastrianism (Parsi Religion)
    d) Shintoism

14. Process of cell division can take place by
    a)heterosis
    b)fusion
    c)mitosis
    d)None of these

15. Which number replaces the question mark?

    13 Q 7
    4   J 9
    16 S ?

    a) 4
    b) 6
    c) 21
    d) 16

16. The national anthem was written by
    a)Bankim Chandra Chatterjee
    b)Rabindranath Tagore
    c)Sarat Chandra Chatterjee
    d) Aurobindo Ghosh

17. Most highly intelligent mammals are
    a)whales
    b)dolphins
    c)elephants
    d)kangaroos

18. The author of the book Five Point Someone is
    a) J.R.D. Tata
    b)Khushwant Singh
    c)Chetan Bhagat
    d)Nissim Ezekiel

19. Heavy water is
    a) deuterium oxide
    b)pH 7
    c) rain water
    d) tritium oxide

20. FRS stands for
    a) Fellow Research System
    b) Federation of Regulation Society
    c) Fellow of Royal Society
    d) None of the above

21. Interferons are
    a)proteins made and released by host cells in response to the presence of pathogens such as viruses, bacteria, parasites or tumor cells.
    b) belonging to the large class of glycoproteins known as cytokines
    c) Both option a and b are correct

d) None of the above

22. The monomer of polythene is
    a) vinyl chloride   b) ethylene   c) ethyl alcohol   d) None of the above

23. Eugenics is the study of
    a) altering human beings by changing their genetic components   b) people of European origin
    c) different races of mankind   d) genetic of plants

24. Prokaryotic cells lack
    a) nucleolus   b) nuclear membrane
    c) membrane bound by organelles   d) All of these

25. Among the various allotropes of carbon,
    a) coke is the hardest, graphite is the softest   b) diamond is the hardest, coke is the softest
    c) diamond is the hardest, graphite is the softest   d) diamond is the hardest, lamp black is the softest

26. Prothrombin which helps in clotting of blood is released by
    a) lymphocytes   b) erythrocytes   c) monocytes   d) blood platelets

27. The members of Parliament can express themselves in the House in
    a)English only   b) Hindi only   c) English or Hindi   d) English, Hindi or
                                                                                   mother tongue

28. Penicillin was discovered in 1928 by
    a) Alexander Fleming   b) Norman Heatley   c) Vincenzo Tiberio   d)Howard Florey

29. Magnetism at the centre of a bar magnet is
    a)minimum   b)maximum   c)zero   d)minimum or
                                                              maximum

30. Coral reefs in India can be found in
    a) the coast of Orissa   b)Waltair   c)Rameshwaram   d) Trivandrum

31. Phloem is a tissue found in
    a)reproductive organs   b)plants   c)insects   d)mammals
       of animals

32. GATT (General Agreement on Tariffs and Trade) is
    a)international agreement signed in 1947 between non-communist nations with the object of
    encouraging international trade unobstructed by tariff barriers
    b) agreement which seeks to achieve its aim by arranging and encouraging bargaining with trade
    concessions between members
    c) Both option a and b
    d) None of the above

33. Light year is a unit of
    a)time   b)distance   c)light   d)intensity of light

③

34. The metal that is used as a catalyst in the hydrogenation of oils is
    a)Ni   b)Pb   c)Cu   d)Pt

35. The group of metals Fe, Co, Ni may best called as
    a) transition metals   b) main group metals   c) alkali metals   d) rare metals

36. The smallest North-east State in India is
    a)Tripura   b) Meghalaya   c)Mizoram   d) Manipur

37. Oxygen in our blood is transported by a protein named
    a) haemoglobin   b)keratin   c)collagen   d)myoglobin

38. Plants receive their nutrients mainly from
    a)chlorophyll   b)atmosphere   c)light   d)soil

39. Pharmacy Council Of India is located at
    a) New Delhi   b) Banglore   c) Lucknow   d) Jaipur

40. Arrange the words given below in a meaningful sequence.
    1. Word   2. Paragraph   3. Sentence   4. Letters   5. Phrase
    a) 4, 1, 5, 3, 2   b) 1,2,3,4,5   c) 1,3,5,2,4   d) 4, 5, 3, 2, 1

41. Carbon, diamond and graphite are together called
    a)allotropes   b)isomers   c)isomorphs   d)isotopes

42. Tetraethyl lead is used as
    a)pain killer   b)fire extinguisher   c)mosquito repellent   d)petrol additive

43. Which of the following metals forms an amalgam with other metals?
    a)Tin   b)Mercury   c)Lead   d)Zinc

44. Film and TV institute of India is located at
    a) Pune (Maharashtra)   b) Rajkot (Gujarat)   c) Pimpri (Maharashtra) d)Perambur (Tamilnadu)

45. Which scientist discovered the radioactive element radium?
    a)Isaac Newton   b)Albert Einstein   c) Benjamin Franklin   d)Marie Curie

46. The element common to all acids is
    a)hydrogen   b)carbon   c) sulphur   d)oxygen

47. For which of the following disciplines is Nobel Prize awarded?
    a) Physics and Chemistry   b) Physiology or Medicine
    c) Literature, Peace and Economics   d) All of the above

48. Stars appears to move from east to west because
    a)all stars move from east to west   b)earth rotates from west to east
    c) the earth rotates from east to west   d) the background of the stars moves from

49. Find the wrong number in the sequence:52,51,48,43,___,27,16
   a)27   b) 34   c)43   d)48

50. Habeas Corpus Act 1679
   a) states that no one was to be imprisoned without a writ or warrant stating the charge against him
   b) provided facilities to a prisoner to obtain either speedy trial or release in bail
   c) safeguarded the personal liberties of the people against arbitrary imprisonment by the king's orders
   d) All of the above

51. The law which states that the amount of gas dissolved in a liquid is proportional to its partial pressure
   is a) Dalton's law   b) Gay Lussac's law   c) Henry's law   d) Raoult's law

52. The average salinity of sea water is
   a) 3%   b) 3.5%   c) 2.5%   d) 2%

53. The most malleable metal is
   a) platinum   b)silver   c) iron   d) gold

54. Non stick cooking utensils are coated with
   a) Teflon   b)PVC   c)black paint   d)polystyrene

55. G-15 is an economic grouping of
   a)First World Nations   b)Second World Nations   c)Third World Nations d)Fourth World Nations

56. Find the combination that fits into the given series: CMM, EOO, GQQ, _____, KUU
   a) GRR   b) GSS   c) ISS   d) ITT

57. For purifying drinking water alum is used
   a)for coagulation of   b)to kill bacteria   c)to remove salts   d)to remove gases
      mud particles

58. Heavy Water Project (Talcher) and Fertilizer plant (Paradeep) are famous industries of
   a) Orissa   b) Tamil nadu   c) Andhra Pradesh   d) Kerala

59. Which of the following is a pharmaceutical company
   a) Bayer   b) Sanofi Aventis   c) Both a and b are correct d) Only a

60. Dr. Zakir Hussain was
   a)the first Muslim president of India   b) first vice president of India
   c) first president of Indian National Congress   d) first speaker of Lok Sabha

61. *Mycobacterium leprae* causes leprosy and *Vibrio comma* causes
   a) tetanus   b) influenza   c) cholera   d) typhoid

62. Exposure to sunlight helps a person improve his health because
   a) the infrared light kills bacteria in the body   b) resistance power increases
   c) the pigment cells in the skin get stimulated   d)the ultraviolet rays convert skin oil &

⑤

63. ICICI is the name of a
    a) chemical industry   b) bureau   c) corporation   d) financial institution

64. The full form of DDT is
    a)dichloro diphenyl trichloroethane   b) diphenyl dianaline tetraacetate
    c)dibromo diphenyl trichloroethane   d) none of the above

65. Myopia is connected with
    a)ears   b) eyes   c) lungs   d) none of these

66. The current president of India is
    a)Pranab Mukherjee   b)A. P. J. Abdul Kalam c) PratibhaPatil   d) Bhairon Singh Shekhawat

67. The metallurgical process in which a metal is obtained in a fused state is called
    a)smelting   b) roasting   c) calcinations   d) froth floatation

68. Golden Temple, Amritsar is India's
    a) largest Gurdwara   b) oldest Gurudwara c) Both a and b are correct d) None of the above

69. In a certain code, PAN is written as 31 and PAR as 35, then PAT is written in the same code as
    a)30   b)37   c)39   d)41

70. FFC stands for
    a) Foreign Finance Corporation   b) Film Finance Corporation
    c) Federation of Football Council   d) None of the above

——— X ———

UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
P.G.DIPLOMA IN PHARMA MANAGEMENT
SECOND ROUND
ENTRANCE EXAM

DATE : 14-Aug-13   TIME : 11.00AM TO 12.00 NOON   MARKS : 50

Note: 1) Write your **SEAT NO** on this answer sheet

2) Answer any 50 questions by ticking (✓) on this answer sheet

3) Rough work should not be done on ANSWER SHEET. A blank page is enclosed for rough work

4) There is no negative marking.

1. A nurse has to record her temperatures in Celsius but her thermometer reads Fahrenheit. A patient's temperature is 100.7° F. What is the temperature in °C?

a)32° C   b) 36.5° C   c) 38.2° C   d) 213.3° C

2. There are 12 more apples than oranges in a basket of 36 apples and oranges. How many apples are in the basket?

a)12   b) 28   c) 24   d)15

3. Which of the following is not considered a simple carbohydrate?

a) Glucose   b) Cellulose   c) Fructose   d) Sucrose

4. Which of the following formulas indicate the ideal gas law?

a) PV= knT or PV=RnT   b) V=kT   c) PV = k   d) KTV =PR

5. Hardening of the arteries is known as:

a) Atheriosclerosis   b) Venous narrowing   c) Micro-circulation   d) Hypertension

6. The first American to win a Nobel Prize was _____ for measuring the speed of light.

a) Albert Einstein   b) Albert Michelson   c) Grimaldi   d) Thomas Young

7. Many cities in India have undergone place name changes such as Baroda being renamed to.............

    a) Badodara   b) Varanasi   c) Vadodara   d) Baranasi

8. Litmus paper that is blue will turn/stay _____ in the presence of a strong base.

    a) Orange   b) Red   c) Blue   d) Green

9. Which of the following is not a whole number followed by its square?

    a) 11, 144   b) 1, 1   c) 10, 100   d) 6, 36

10. Which of the following pH ranges is a strong base?

    a) 1.3-2.0   b) 4.5-5.2   c) 7.1-9.0   d) 11.2-12.0

11. The Himalayan range is considered as the world's highest mountain range, with its tallest peak................. on the Nepal–China border.

    a) Hindu Kush   b) Mt. Everest   c) Tirich Mir   d) Kunlun

12. The shielding effect explains why:

a) the electronegativity of fluorine is greater than that of bromine

b) the electronegativity of fluorine is greater than that of boron

c) the electronegativity of fluorine is smaller than that of gallium

d) none of these answers is correct

13. Which of the following formulas indicates Newton's second law of motion?

    a) $F = ma$ b) $F = mva$ c) $v = d/t$ d) $p = mv$

14. Most highly intelligent mammals are
a) whales   b) dolphins   c) elephants   d) kangaroos

15. **What number is 5% of 2000?**

    a) 50   b) 100   c) 150   d) 200

16. Cholesterol that is known as (LDL) stands for:

a) Low-density lipoproteins   b) Low-density lysosomes
c) Level-density lipoproteins   d) Level-density lysosomes

17. A steroid is considered a _____.

    a) Lipid   b) Protein   c) Enzyme   d) Weak acid

18. The national anthem was written by
a)Bankim Chandra Chatterjee   b)Rabindranath Tagore
c)Sarat Chandra Chatterjee   d) Aurobindo Ghosh

19 Myopia is connected with
a)ears   b) eyes   c) lungs   d) none of these

20. Which of the following is not considered a characteristic or property of a gas?

    a) Volume   b) Mass   c) Pressure   d) Particles

21. For which of the following disciplines is Nobel Prize awarded?
a) Physics and Chemistry   b) Physiology or Medicine
c) Literature, Peace and Economics   d) All of the above

22. What is the next number in the following pattern? 1, 1/2, 1/4, 1/8, ____

    a)1/10   b)1/12   c)1/16   d)1/18

23. Non stick cooking utensils are coated with
a) Teflon   b)PVC   c)black paint   d)polystyrene

24. Which of the following statements about enzymes is not true?

a) Enzymes are catalysts.
b) Almost all enzymes are proteins.
c) Enzymes operate most efficiently at optimum pH.
d) Enzymes are destroyed during chemical reactions.

25. The chemical name for Fe_2O_3 is:

    a) iron oxide   b) iron (II) oxide   c) iron (III) oxide   d) iron (VI) oxide

26. High frequency sound waves are known as:

a) Fundamental waves   b) Overtones
c) Consonance waves   d) Dissonance waves

27. A Lewis acid is a/an _____ pair acceptor.

    a) Neutron   b) Proton   c) Electron   d) Ion

28. India tested its first nuclear weapon in ....

a) 1961   b) 1971   c) 1974   d) 1980

29. Tetraethyl lead is used as

a)pain killer   b)fire extinguisher   c)mosquito repellent   d)petrol additive

30. A hockey team won 6 games and lost 8. What is the ratio of wins to number of games?

a) $^6/_8$ b) $^8/_6$ c) $^3/_7$ d) $^8/_{14}$

31. Which of the following is not considered a fat soluble vitamin?

a)A   b)K   c)E   d)C

32. Slogan of "Jai Jawan Jai Kisan" ("Hail the soldier, Hail the farmer") was given by ......

a) Lal Bahadur Shastri   b) Mahatma Gandhi
c) Jawahar Lal Nehru   d) Lala Lajpat

33. Pharmacy Council Of India is located at
a) New Delhi   b) Banglore   c) Lucknow   d) Jaipur

34. A/An _____ is a device specifically designed to measure current.

a) Ammeter   b) Cyclotron   c) Resistor   d) Capacitor

35. Magnetism at the centre of a bar magnet is
a)minimum   b)maximum   c)zero   d)minimum or

       Maximum

36. If $3x + 5x = -8$, then $x + 1 =$

a) -2   b) -1   c) 0   d) 1

37. While campaigning to regain power in May 1991, ... was assassinated by a suicide bomber associated with the Tamil Tigers.

a) P.V. Narasimha Rao   b) Rajiv Gandhi
c) Indira Gandhi   d)Ram Prasad Gutta

38. The monomer of polythene is
a) vinyl chloride   b) ethylene   c) ethyl alcohol   d) None of the

       above

39. One slice of bread is 80 calorie. Approximately how many calories are in 2 ½ slices of bread?

a) 140 calories   b) 200 calories   c) 220 calories   d) 240 calories

40. Which of the following is described in the definition: An object immersed in a fluid is buoyed up by a force equal to the weight of the fluid displaced by the object?

a) Archimedes' principle   b) Charles' law   c) Boyle's law   d) Anderson's principle

41. High levels of bilirubin in the blood stream can result in:

a) Uric acid overexposure   b) Jaundice
c) Bile salt production   d) Hepatic mutation

c)
42. Which of the following typically has a low melting point?

a) metals   b) nonmetals   c) metalloids   d) transition metals

43. Indira Awaas Yojana (1985) was related to

a) Housing for the rural poor   b) Rice for the rural poor
c) Wheat for the rural poor   d) Farming for the rural poor

44. Of the following fractions, which is less than $^2/_3$?

a) $^7/_8$ b) $^5/_6$ c) $^3/_4$ d) $^3/_5$

45. Fat in the intestine triggers the release of _____, which then signals the gallbladder to send bile.

a) Cholecystokin (CCK)   b) Citric acid   c) Glucose 6 phosphate   d) Glucagon

46. The unit of charge is called the _____.

a) Newton   b) Coulomb   c) Joule   d) Watt

47 .... refers to a low power mode for electronic devices such as computers, televisions, and remote controlled devices.

a) Hibernation   b) Power down   c) Sleep mode   d) Non-Awk mode

48. What anatomical structure connects the stomach and the mouth?

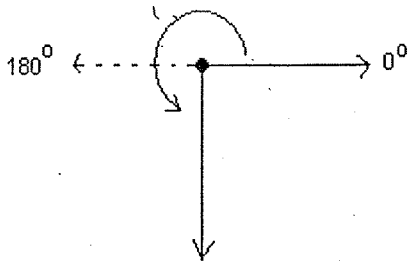a) Trachea b) Spinal column c) Hepatic duct d) Esophagus

49. Cations have:

a) Positive charge b) Negative charge c) No charge d) It is impossible to predict the charge on a cation

50. HDFC is the name of a

a) chemical industry b) bureau c) corporation d) financial institution

51. What is the measure of the solid line angle depicted by the following figure?

a) 90 degrees b) 180 degrees c) 225 degrees d) 270 degrees

52. Organs repair themselves through a process of?.

a) Meiosis b) Mitosis c) Cellular differentiation d) Transformation

53. The combination of sodium and chlorine to form NaCL is considered a/an ____ bond.

a) Ionic b) Covalent c) Hydrogen d) Metallic

54. The Lakshadweep and the Andaman & Nicobar Islands in India are classified as.............

a) LAC b) UT (union territories) c) States d) Deserts

55. Liquids that evaporate quickly are known as _____ liquids.

a) Viscous b) Volatile c) Evaporative d) Transient

56. Vinegar is also known as:

a) Acetic acid b) Acetone acid c) Sulfuric acid d) Ascorbic acid

57. Two angles of a triangle measure 15° and 85 °. What is the measure for the third angle?

   a) 50   b) 55   c) 60   d) 80

58. The Rann of Kutch is a marshy region located in northwestern Gujarat and the bordering Sindh province of................

   a) Pakistan   b) Bangladesh   c) Nepal   d) Afghanistan

59. Which cellular organelle contains enzymes that are considered digestive?

   a) Golgi Apparatus   b) Lysosomes   c) Nucleus   d) Ribosomes

60. Which of the following microorganisms is anaerobic, symptoms occur after 8-18 hours including nausea, vomitting, abmonial pain and diarrhea? It is also called the cafeteria bug.

   a) Clostridium   b) Bacillus cerus   c) Staphylococcus   d) Clostridium
   botulinum   aureus   perfringens

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UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
P.G. DIPLOMA IN PHARMA MANAGEMENT
ENTRANCE EXAM

DATE : 14-Jul-12   **TIME : 11.00AM TO 12.00 NOON**   **MARKS : 50**

Notes: a) Write your SEAT NUMBER ON THIS ANSWER SHEET.

b) Answer any 50 questions by ticking (√) on this answer sheet.

c) Rough work should not be done on ANSWER SHEET. A blank page is enclosed for rough work.

d) There is no negative marking.

1) Who is the first Asian winner of Nobel prize?
   a) C.V. Raman   b) Rajiv Gandhi   c) Rabindranath Tagore   d) Mother Teresa

2) One nanometer is equal to
   a) 10^{-6} m   b) 10^{-8} m   c) 10^{-9} m   d) 10^{-5} m

3) The members of Lok Sabha hold office for a term of
   a) 4 years   b) 5 years   c) 6 years   d) 3 years

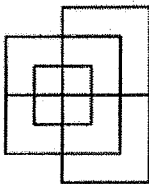4) Mycoplasmas are different from the other prokaryotes by
   a) Presence of chitin in cell walls
   b) Presence of murrain in cell walls
   c) Presence of proteins in cell walls
   d) Absence of cell wall itself

5) 'Ashok Chakra' is awarded for
   e) acts of gallantry in the presence of enemy
   f) gallantry by children
   g) outstanding contribution to literature
   h) the most conspicuous bravery or self sacrifice on land, air or sea but not in the presence of the enemy

6) Rain is falling vertically downwards. To a man running east-wards, the rain will appear to be coming from
   a) East   b) West   c) Northeast   d) Southeast

7) Who synthesized the first wholly artificial gene?
   a) Hargobind Khorana b) J.J. Thompson   c) Benjamin Franklin   d) Meghnad Saha

8) Corn Flakes – who made them first?
   a) Nabisco   b) Kellogg   c) Quaker   d) Archers

9) Indicator organism most sensitive to water pollution is
   a) Octopus   b) Cuttle fish   c) Prawn   d) Jelly fish

10) www stands for
   a) world wide war
   b) world wide watch
   c) world wide web
   d) world wide wealth

11) Vitamin D deficiency causes
   a) Rickets   b) Scurvy   c) Sterility   d) Dermatitis

12) Who is the only U.S. President to invent and patent something?
   a) Abraham Lincoln   b) Theodore Roosevelt c) Thomas Jefferson   d) Rutherford B. Hayes

13) Jaundice results from the malfunctioning of the
   a) Kidney   b) Liver   c) Lungs   d) Stomach

14) The vast portion of our body is made up of
   a) bones   b) water   c) skin, tissues & organs d) organs

15) Nephrons are found inside
   a) Liver   b) Brain   c) Lung   d) Kidney

16) Sound travels at the fastest speed in
   a) Steel   b) Water   c) Air   d) Vacuum

17) Rainbow is due to
   a) Absorption of sunlight in minute water droplets
   b) Diffusion of sunlight through water droplets
   c) Ionisation of water deposits
   d) Refraction and reflection of sunlight by water droplets

18) Which scientist discovered the radioactive element radium?
   a) Isaac Newton   b) Albert Einstein   c) Benjamin Franklin   d) Marie Curie

19) Protein synthesis takes place in
   a) ribosomes   b) chromosomes   c) DNA   d) none of these

20) How many weeks are there in a year?
   a) 7   b) 12   c) 30   d) 52

21) Which of the following is used in pencils
   a) Graphite   b) Silicon   c) Phosphorous   d) Charcoal

22) What 'game' was first produced by the Southern Novelty Company in Baltimore, Maryland in 1892?
   a) Frisbee   b) Monopoly   c) Ouija board   d) Ping pong

23) Most fish do not sink in water because of the presence of
   I. Swim bladder   II. air sacs   III. air bladder   IV. air in spongy bones

   a) I and II are correct   b) II and III are correct   c) III and IV are correct   d) I,II,III and IV are correct

24) The gas usually filled in the electric bulb is
   a) nitrogen   b) hydrogen   c) carbon dioxide   d) oxygen

25) Hormones are carried to the target organs by the
   a) blood   b) lymph   c) water   d) corpuscles

26) Find the minimum number of straight lines required to make the given figure.

   a) 13   b) 15   c) 17   d) 19

3

27) The term pH refers to
   a) hydrogen ion concentration
   b) negative log of hydrogen ion concentration
   c) log of hydrogen ion concentration
   d) none of the above

28) In proteins, the α-helix and β-pleated sheets are examples of
   a) Primary structure   b) Secondary Structure   c) Tertiary structure   d) Quaternary structure

29) HPLC stands for
   a) High Pressure Liquid Chromatography
   b) High Performance Liquid Chromatography
   c) Both (a) & (b)
   d) Highly Placed Liquid Chromatography

30) --------- is known as green gold of India
   a) Teak   b) Bamboo   c) Sal   d) Sissoo

31) If 20% of a = b then b% of 20 is the same as
   a) 4% of a   b) 5% of a   c) 20% of a   d) None of these

32) A solution with pH = 5 is ...... than a solution with pH = 7
   a) 2 times more basic
   b) 10 times more basic
   c) 10 times more acidic
   d) 100 times more acidic

33) The class of immunoglobulins which can cross the placenta is
   a) IgM   b) IgG   c) IgA   d) IgD

34) The principle cereal crop in India is
   a) Wheat   b) Rice   c) Maize   d) Sorghum

35) A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had
   a) 588 apples   b) 600 apples   c) 672 apples   d) 700 apples

36) Ptyalin is an enzyme produced in the
   a) salivary glands   b) pituitary glands   c) thyroid glands   d) pancreas

37) Roots of equation $m^2-16=0$ are
   a) $-4\pm\sqrt{}$ b) 2   c) ±4 d) 4

38) Presence of HCG in urine confirms
    a) Addison disease   b) Virilism   c) Gyna comastia   d) Pregnancy

39) Insulin is secreted by
    a) stomach   b) kidney   c) pancreas   d) liver

40) The radius of an atomic nucleus is of the order of
    a) 10^{-10} cm   b) 10^{-13} cm   c) 10^{-15} cm   d) 10^{8} cm

41) If 5 x 8 = 20 and 7 x 6 = 21, what is 19 x 6 =?
    a) 57   b) 62   c) 34   d) 46

42) ------- blood group is universal donor
    a) B   b) O   c) A   d) AB

43) Sickle Cell disease is characterized as
    a) HbS   b) HbC   c) HbF   d) HbA

44) Human beings have ------ number of chromosomes
    a) 23   b) 46   c) 48   d) 44

45) The acid that is secreted in stomach is
    a) HCl   b) HNO_3 c) H_2SO_4 d) H_2CO_3

46) Which amino acid when exposed to ninhydrin produces a brown colour?
    a) Asparagine   b) Proline   c) Alanine   d) Valine

47) To complete the sequene last number is
    2, 2, 4, 6, 10, 16, 26, 42, 68, -----

    a) 92   b) 110   c) 126   d) none

48) Two sides of a right angle are 5 cm and 12 cm the third side in cm is
    a) 13 cm   b) 15 cm   c) 9 cm   d) 14 cm

49) Beta vulgaris is
    a) Sugarcane   b) Sugar beet root   c) Coconut palm   d) Sugar maple

72) ELISA is
a) Satellite b) Lizard c) AIDS test d) Airport

73) In SDS PAGE, the SDS bound per weight of protein is
a) 1 g of SDS/ g of protein b) 1.4 g of SDS/ g of protein
c) 2.0 g of SDS/ g of protein d) 2.4 g of SDS/ g of protein

74) Leaves are green because
a) Absorb green light b) Reflect green light
b) Utilize green light d) Absorb and reflect green light

75) Cementing material in cell wall is
a) Pectins b) Resins c) Gums d) Latex

—— X ——

PGDPM

UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
POST GRADUATE DIPLOMA IN PHARMA MANAGEMENT
ENTRANCE EXAM

DATE :16-07-2011   **TIME : 11 AM TO 12.OO NOON**   **MARKS : 50**

NOTE : 1) Solve **any 50** Questions out of **75** Questions.
2) 1 mark / correct answer.
3) No negative marking.
4) Put a Tick **(√)** on the correct answer.

1.AIDS is caused by _____virus.
a)H1N1   b)HIV   c)Hepatitis   d)Human Papilloma

2.Capital of China is_____
a)Guangzhou   b)Beijing   c)Shanghai   d)Tokyo

3)_____blood group is universal donor
a)A   b)B   c)C   d)O

4)Momentum is best associated with_____
a)Speed   b)inertia   c)mass   d)volume

5)Hypoglycemia means_____
a)high blood pressure   b)high blood sugar
c)low blood pressure   d)low blood sugar

6)XV roman numeral stands for _____
a)25   b)255   c)15   d)155

7)In case of bodies falling under gravity,which of the following remains constant at a given place?
a)kinetic energy   b)acceleration   c)potential energy   d)all the above

8)The motion of the pendulum of the wall clock is _____
a)linear motion   b)rotational motion   c)vibratory motion   d)all of the above

9)The distance between the 2 bodies is halved,now the force of attraction between them will be _____
a)half   b)4 times   c)one-fourth   d)2 times

1

10)Weight of the body is _____
a)maximum at equator
c)minimum at the equator
b)minimum at the poles
d)no corelation

11)Brine is the solution of _____
a)Nacl in water
c)sulphur in carbon disulphide
b)iodine in alcohol
d)KI in water

12)Gases have _____
a)a definite shape but not volume
b)a definite volume and shape
c)a definite volume but not shape
d)neither definite volume nor shape

13)Leucopenia means _____ of leucocytes.
a)deficiency
b)excess
c)malformation
d)abnormalties in chemical composition

14)Which of the following organells is known as power house of the cell?
a)golgi bodies   b)ribosomes   c)mitochondria   d)centrosome

15)Plasma membrane in animal cell is composed of _____
a)cellulose   b)proteins   c)lipids &proteins   d)fats

16)Chromosomes are best concerned with _____
a)respiration   b)assimilation
c)body growth   d)transmission of hereditary characters

17)The division of nucleus is called _____
a)karyokinesis   b)meiosis   c)cytokinesis   d)none of the above

18)RBC's are anucleated means _____
a)They have single nucleus   b)They lack nucleus
c)they are multinucleate   d)none of the above

19)Endoplasmic reticulum is bound by _____
a)cellulose wall   b)sclerotised layer   c)membranes   d)chitinised wall

20)_____ controls entry &exit of molecules in a cell.
a)nucleus   b)DNA   c)RNA   d)plasma membrane

2

21)Which of the following plays an important role in photosynthesis?
a)chloroplast   b)tonoplast   c)centrosome   d)nematoblast

22)Nuclear membrane is absent in _____
a)prokaryotes   b)eukaryotes   c)protozoans   d)all of the above

23)Which of the following tissues in plants is composed of immature cells &it is responsible for forming various other types of cells?
a)storage tissue   b)meristematic tissue   c)mechanical tissue   d)conducting tissue

24)Total number of amino acids in plants are _____
a)10   b)20   c)30   d)plenty

25)Protein synthesis takes place in _____
a)ribosomes   b)chromosomes   c)DNA   d)none of these

26)Genetic constitution of child is exactly same as that of its_____
a)mother   b)father   c)grandfather   d)identical twins

27)Best specimen for drinking purposes is _____
a)Rain water   b)river water   c)conductivity water   d)deep well water

28)Conversion of oils to solid fats is called_____
a)hydrogenation   b)oxidation   c)carbonation   d)ionization

29)Rheumatic heart disease is due to repeated infections of_____
a)staphylococcal bacteria   b)pneumococcal bacteria
c)streptococcal bacteria   d)all of the above

30) Bordetella pertussis cause _____
a)whooping cough   b)tetanus   c)diphtheria   d)rabies

31)Viruses have _____
a)DNA only   b)RNA only   c)DNA or RNA   d)DNA &RNA

32)Hawa Mahal is in _____
a)Rajasthan b)Punjab   c)UP   d)MP

33)Ranchi is the capital of _____
a)Bihar   b)Jharkhand   c)Assam   d)Uttarakhand

34)_____is the capital of Chattisgarh
a)Dhanbad b)Cuttack   c)Bhillai   d)Raipur

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35)Hardening of arteries due to deposition of _____ is called artherosclerosis.
a)glucose   b)cholesterol   c)sweat   d)water

36)Chanakya was guru to _____
a)kauravas   b)pandavas   c)Chandragupta   d)Krishna

37)_____ has no nutritive value.
a)protein   b)carbohydrates   c)fats   d)dietary fibre

38)Vitamin A deficiency is known to cause _____
a)night-blindness   b)scurvy   c)beri-beri   d)rickets

39)_____ is technique used to detect defects in developing Fetus.
a)Amniocentesis   b)mammography   c)laproscopy   d)D & C

40)Plant cells are characterised by _____
a)plasmalemma   b)cellulose   c)plasma membrane   d)plasmagel

41)A compound eye is common in _____
a)worms   b)frog   c)insects   d)squid

42)Which one is a poisonous mammal?
a)Kangaroo   b)Wallaby   c)Shark   d)Duckbilled Platypus

43)Hippocampus is popularly known as _____
a)Sea Horse   b)Iron horse   c)Steam Horse   d)Horse-shoe crab

44)Islets of Langerhans are present in _____
a)Pacific Ocean   b)Altantic Ocean   c)Pancreas   d)Intestines

45)Kwashiorkor is protein deficiency disease common in _____
a)South India   b)North India   c)Africa   d)Madagascar

46)Breeding &management of silk moth is called_____
a)Sylviculture   b)Sericulture   c)Apiculture   d)Pisciculture

47)Doctors specialising in treatment of skin diseases are called_____
a)ophthalmologist   b)orthodontist   c)gastroenterologist   d)dermatologist

48)An element abundant in nature but not utilized directly is _____
a)O2   b)CO2   c)N2   d)H2

49) "The Length of its day and the tilt of its axis are almost identical to those of the earth" This is true of _____
a)Uranus   b)Neptune   c)Saturn   d)Mars

50)Richter scale is for measuring the _____
a)Force of earthquake   b)Velocity of winds
c)atmospheric pressure   d)Temperature of a place

51)Cotton is an example of _____
a)Bark Fibre   b)surface fibre   c)Leaf fibre   d)wood fibre

52)The normal pulse rate of human beings is _____per minute.
a)70   b)72   c)74   d)76

53)Cell wall associated with _____&stomata is associated with_____
a)photosynthesis,respiration   b)osmosis,transpiration
c)transpiration,osmosis   d)respiration,osmosis

54)A scientist was treating pathogenic bacteria with different chemicals to see which of them would stop activity of their ribosomes.Which one of the following processes is the target?
a)DNA synthesis   b)protein synthesis   c)Protein digestion   d)ATP production

55)Energy is stored in the liver &muscles in the form of _____
a)Glycogen   b)starch   c)fat   d)cholesterol

56)Which one of the following contributes largely to greenhouse effect?
a)ozone   b)carbon dioxide   c)carbon monoxide   d)water vapour

57)Cereal &foodgrain products contaminated with moulds are not fit for consumption because of the prescence of_____
a)Mycotoxin   b)Phycotoxin   c)Hypnotoxin   d)Haemotoxin

58)Breeding & management of bees is called _____
a)Sericulture   b)pisciculture   c)silviculture   d)Apiculture

59)Which of the following gems is constituted of a single element?
a)Ruby   b)Aquamarine   c)Diamond   d)Emerald

60)The exploration of commercially valuable genetic &biochemical resources is called_____
a)Bioprospecting   b)Biotechnology   c)Bioengineering   d)Bioenergetics

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61)Buckminister Fullerenes are _____
a)heavy allotrophs of carbon   b)heavy allotrophs of sulphur
c)heavy isotopes of oxygen   d)heavy isotopes of nitrogen

62)The most sensitive &most employed method for detecting the prescence of quantities of a hormone or antibody in a sample is _____
a)Western Blot   b)Feulgen Reaction   c)chromatography   d)ELISA

63)From a sample of biological material collected by a forensic team,only a few molecules of DNA is obtained.What will you suggest as a method to produce enough of the same DNA for analysis?
a)gene cloning   b)PCR   c)transformation   d)transgenesis

64)Internet is a _____
a)computer virus   b)computer software
c)computer hardware   d)network of computers

65)Select the double digit even number group:_____
a)22,44,66   b)21,31,41   c)1,3,5   d)2,4,8

66)My grandmother is a senior citizen.How old is she?
a)55yrs   b)80yrs   c)40yrs   d)59yrs

67)Suraj had Rs.50,He bought 2 stamps,How much money is left with him?
a)Rs.2   b)Rs.50   c)Rs.52   d)Rs.40

68)Sangita plays violin daily.How many hrs per week does she practice?
a)24hrs   b)168hrs   c)1 hr   c)150hrs

69)Sonia has 340 labels.Samiksha has less labels than her..How many labels does Samiksha have?
a)350   b)340   c)400   d)300

70)MacDonalds business model is _____
a)ownership   b)branches owned by parent company
c)private franchising   d)none of the above

71)Serum is obtained from centrifuging_____
a)clotted blood   b)blood to which anticoagulant is added
c)CSF   D)Urine

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72)Select the fat soluble vitamin: _____

a)A   b)B   c)C   d)folic acid

73)Who wrote the book "Discovery of India" ?

a)Shyam Benegal   b)Mahatma Gandhi   c)Indira Gandhi   d)Jawaharlal Nehru

74)Human being have _____chromosomes.

a)44   b)46   c)23   d)22

75)The Bollywood Actress who was the winner at the international reality show similar to Indian Version "Big Boss" owns the _____IPL team.

a)Kings XI   b)Rajasthan Royals   c)Deccan Chargers   d)Chennai Superkings

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UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
POST GRADUATE DIPLOMA IN PHARMA MANAGEMENT
ENTRANCE EXAM

DATE : 31- 07 - 2010   TIME : 11 AM. TO 12 PM.   MARKS :50

NOTE : SOLVE ANY 50 QUESTIONS.

Choose the correct alternative :

1)The skin care product used to protect our face from damage caused by UV rays is called_____
a)Talcum powder   b)sunscreen   c)foundation   d)moisturizer.

2)Michel Schumacher is a sports person involved in_____
a)Formula 1 racing   b)cricket   c)golf   d)luge.

3)Flying sikh was a name given to_____
a)Navjot Singh Sidhu   b)Milkha Singh c)Jeev Singh   d)Manmohan Singh

4)India's shooting sensation Abhinav Bindra made history in_____.
a)Argentina Olympics   b)Australian olympics   c)Beijing Olympics d) IPL.

5) Choose the wrong pair:
a)Bhaichung Bhutia- Boxing   b)Vishwanathan Anand- Chess   c)Sania Mirza-Tennis
d)Ruben Gonzalez- Luge.

6)Which team won the first IPL(cricket)?
a) Kolkatta Knightriders b)Rajasthan Royals c)Chennai Superkings d)Mumbai Indians.

7) From 2009,which country announced to use social networking sites like facebook &
Twitter to give people early warnings of bush fires?
a)Iran b)Australia   c)Iraq d)Greece.

8) Who won the 2009 wimbeldon mens singles final?
a)Mahesh Bhupati b)Roger Federer   c)Leander Paes d) Venus Williams.

9) Which famous industrialist was conferred the Office of Legion Honour,the highest
civilian distinction of government of France?
a)Dhirubhai Ambani b)Narayana Murthy   c)Laxmi Mittal d)Rich Devos.

10) In 2010 which river was declared the national river of India?
a)Narmada b)Godavari c)Ganges   d)Brahmaputra.

11) Wimbeldon 2009 women's single's final was won by _____
a) Sania Mirza   b)Sania Nehwal   c) Venus Williams   d)Serena Williams.

12. A.R.Rahman won an oscar for music in _____ movie
a)Roja   b)Bombay   c)Delhi 6   d)Slumdog Millionaire

13) _____ is the first person of Indian origin to become the first governor of a U.S state
a)Duleep Singh   b) Mahinda Rajapakse   c)Bobby Jindal   d)Barrack Obama.

14) Swine flu is caused by _____
a)Sw virus   .b)H1N1 virus   c)HN virus   d)Rota virus.

15) Who is All India Congress Committee's current general secretary?
a)Rahul Gandhi   b)Sonia Gandhi   c)Manmohan Singh   d)Narayan Rane.

16) Yousef Raza Gilani   is the prime minister of
a)Bhutan   b)Bangladesh   c)Nepal   d)Pakistan.

17) The 21st NATO summit was held in april 2009,where N- North,T-TREATY,O-ORGANISATION & "A" stands for _____
a)Antartic   b)Atlantic   c)America   d)Australian.

18) Who is the 1st women speaker of lok sabha?
a)Meira Kumar   b)Shiela Dixit   c)Sushma swaraj   d)Sonia Gandhi

19)"Big Ben" is located in _____
a)London   b)Frankfurt   c)Beijing   d)Tokyo

20) Finance minister of India is _____
a) Mr.Chidambaram   b)Mr. A.K. Anthony   c)Mr. Pranab Mukherjee
d)Mr. Mohd. Hamid Ansari.

21) Which 1st full length Indian movie was shown in United Nations Auditorium?
a)Slumdog Millionaire   b)Lage Raho Munnabhai   c)Sholay   d)Tare Zameen pe

22) _____ Blood grp is universal recipient.
a)O   b)A   c)AB   d)B

23) JRD Tata became the first Indian Pilot in 1929,He started India's 1st airline in 1932 which later became known as _____
a)Indian Airlines   b)Air India   c)Tata Indicom   d)Tata Motors

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24)Chikungunya is spread by _____
a)dogs b)cats c)rats d)mosquitoes

25)Which part of the plant gets converted to fruit?
a)stem b)flower c)leaves d)roots

26)In 1973,villages in the Garhwal himalaya hugged trees to stop them from being cut down.This movement is known as _____
a)Friends of trees b)Green Revolution c)Chipko d)Ecofriendly

27)Select the odd combination:
a)ears,nose,skin b)blood,nerves,circulation c)kidneys,urine,sweat
d)small intestine,stomach,kidneys

28)Measurement of quantity of liquid a vessel can hold is called_____
a)Weight b)volume c)capacity d)amount

29)Sunita Williams is second Indian women to _____
a)go into space b)cross Thar desert c)Climb Mount Everest d)English Channel

30)Select the even number group:
a)21,37,41 b)1,3,5 c)46,58,60 d)9,19,29

31)Pradeep's younger sister goes to school.How old is she?
a)1yr b)8yrs c)50yrs d)20yrs

32)Aman had Rs.50/-. He bought a story book.How much money is left with him?
a)Rs.50 b)Rs.70 c)Rs.20 d)Rs.49

33)Shirin plays Veena almost everyday.How many hours does she practice every week?
a)1hr b)10hrs c)100hrs d)124hrs

34)Jessy read a book in 2 days.How many pages are in the book?
a)2pgs b)5pgs c)1000pgs d)35pgs

35)Sonia had 385 stamps.Her friend Shagufta has many more.How many stamps does Shagufta have?
a)385 b)386 c)340 d)450

36)Using the digits 9,5,0 build the greatest number and smallest number_____
a)590,95 b)950,59 c)5,9 d)9,5

37) Arrange the numbers 5987,5978,5798 in ascending order
a)5987,5978,5798   b)5798,5978,5987   c)5987,5798,5978   d)5978,5987,5798

38) Arrange the numbers 4503,4035 and 4053 in descending order
a)4035,4053,4503   b)4053,4035,4503   c)4503,4053,4035   d)4053,4503,4035

39) The sum of numbers being added is always greater than the individual numbers except when one of the numbers is _____
a)1   b)100   c)10   d)0

40) XVI Roman Numeral stands for_____
a)60   b)16   c)6   d)61

41) The k-sound is silent in all following words except _____
a)knot   b)kite   c)knight   d)knit

42) There are 31 days in _____
a)April   b)march   c)june   d)november

43) Sehwag hits 3 sixes& 2 fours means _____runs
a)36   b)26   c)44   d)48

44) Our body is made up mostly of_____
a)water   b)proteins   c)fats   d)carbohydrates

45) For healthy bones we need _____
a)Calcium &Vitamin D   b)Iron &Folic Acid   c)Omega-3 fats   d)Bcomplex vitamins

46) Type-1 Diabetes is caused due to deficiency/absence of which hormone?
a)growth hormone   b)insulin   c)thyroid   d)estrogen

47) Our hair is made up of_____ called keratin
a)protein   b)glucoside   c)lipid   d)mineral

48) Hypertension means _____blood pressure
a)high   b)low   c)moderate   d)normal

49) Human beings have _____number of chromosomes
a)23   b)44   c)46   d)48

50) _____are cold blooded animals
a)mammals   b)human beings   c)cattle.   d)reptiles

51)Vaccines are dead/inactivated version of the _____micro-organism against whom immunity is desired
a)mixture of same &different   b)similar   c)same   d)different

52)An astronomical unit of distance is _____
a)km   b)light year   c)miles   d)none of the above

53)Angstrom is the unit used to measure very small wavelengths such as wavelengths of light. This is equal to _____
a)(10 raised to 6)cm   b)(10 raised to -8)cm   c)(10 raised to -12)cm   d)(10 raised to -15)cm

54)Hypersonic speed describes a speed in excess of _____
a)Mach 3   b)Mach 2   c)Mach 4   d)Mach 5

55)When velocity of a moving object is doubled its _____
a)acceleration gets doubled   b)kinetic energy gets doubled   c)momentum gets doubled
d)potential energy gets doubled

56)Which of the following statements is true?
a)scalar quantities have magnitude only &no direction
b)vector quantities have both direction &magnitude
c)displacement,velocity &acceleration are all vector quantities
d)all the above

57)A particle is moving in a circle with a constant speed,for this particle which statement given below is true?
a)it has constant velocity
b)it has no acceleration
c)it has an acceleration acting towards the centre
d)its acceleration is a constant vector

58)A body is thrown vertically upward with a velocity of 50m/s,on the return journey its velocity at the starting point will be _____
a)50m/s   b)9.8m/s   c)100m/s   d)25m/s

59)An instrument released from a artificial satellite by detaching it from the outer wall will_____
a)shoot forward in the same orbit with double the velocity of the satellite
b)fall on the earth below
c)continue to move along with the satellite in the same orbit with the same velocity
d)go into the outer space &get lost

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60)Small pictures on the desktop are called _____
a)icons b)start menu c)dialog box d)task bar

61)_____ specified the physical structure of DNA
a)Gregor Mendel b)Watson &Crick c)Hargobind Khorana d)James Watson

62)Rough Endoplasmic Reticulum _____ ribosomes.
a)has b)lacks c)sometimes has d)only in prokaryots has

63)_____ mutations produce change in single amino acid
a)missense b)nonsense c)sense d)all the above

64)Sickle cell disease is characterized as _____
a)HbS b)HbC c)HbA d)HbF

65)Proteins contain _____ linkages.
a)Glycosidic b)peptide c)cyclic d)unsaturated

66)Science that deals with the chemistry of life processes is _____
a)Physical Chemistry b)organic chemistry c)inorganic chemistry d)biochemistry

67)A man holds fish in one hand &a bucket of water in another hand.If he transfers the fish to the bucket,what happens to the total weight?
a)it increases b)it decreases c)It remains the same d)It first increases then decreases

68)What are oncogenes?
a)Dominant gene b)A set of genes that produce cancer c)Recessive genes
d)X-linked recessive genes

69)Rate of mutation is increased by _____
a)hormones b)IAA c)Radiation d)Enzymes

70)Nucleotide sequences susceptible to mutations are called _____
a)Introns b)hot spots c)exons d)nucleosides

71)_____ substitutions do not alter the amino acid.
a)silent b)non-silent c)physical d)chemical

72)Which of the following does not spin &revolve simultaneously?
a)Blades of fan b)tennis ball moving with a spin c)wheels of moving motor d)earth

73)A hunter on the ground wishes to shoot a bird on a tree at a distance with his rifle. He has to point the rifle _____ .
a)at a lower elevation than the bird   b)in the same direction as the bird
c)at a higher elevation than the bird   d)vertically upwards

74)An aircraft on a bombing mission flies horizontally and drops a bomb when it is just vertically above the target. Then the bomb will _____
a) hit the target   b)hit a region far ahead of the target
c)hit a region far behind the target   d)move parallel to the aircraft &not reach the ground

75)What is the minimum velocity required for a rocket to overcome earth's gravity &travel into space?
a)18km/s b)11.2km/s c)21km/s d)35km/s

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