SEAT NO. : _____ SUPERVISOR SIGN.: _____

UNIVERSITY OF MUMBAI'S
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
P.G. DIPLOMA IN HOSPITAL ADMINISTRATION
(PGDHA)
ENTRANCE EXAM

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

NOTE: DO NOT CARRY YOUR MOBILE IN THE EXAMINATION HALL

Q.1) Fill in the blanks---Two markseach (20)

1.----------is the one of monsoon related illness transmitted by anopheles mosquito.

2.ORS is the powder used in patients of ----------

3.Land slide in ----------calamity

4.Father of nation----------

5.TPA stands for----------

6.In what form LPG present in cylinders----------

7.----------is celebrated as yoga day

8.Name of senior citizen of mumbai----------

9.Cricketer who advertises for girl education on TV is----------

10.complete name of PGDHA- ----------

Q.2) Multiple choice Questions--2 markseach (20)

1.Insulin is produced by

a) Gall bladder
b) Pituitory gland
c) Pancreas

2.Coal production is higher in

a)Bihar
b)MP
c)Orissa

P.T.O

3. Defficiency of vitamin c causes

a)scurvey
b)Beri-Beri
c)Night blindness

4.The headquarters of ONGC are at

a)Mumbai
b)Gauhati
c)Deharadun

5. Gobar gas consists of

a)Ethane
b)Methane
c)Oxygen

6.The operation Tiger is concerned with the protection of

a)Wild-life
b)Tigers
c)Jungles

7.Where are the Ajanta caves

a)Near Mumbai
b)Near Patna
c)Near Chennai

8.Purest water is

a)Rain water
b)River water
c)Tube well water

9.Mad dogs bite causes

a)Malaria
b)Typhus
c)Hydrophobia

10.In which game isthe term ,"Googly,"used

a)Hockey
b)cricket
c)court tennis

Q.3) ---write down for 10 marks
Why there is need of qualified hospital administrators in health industry?

——— X ———

SEAT NO. : _____

UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
P.G. DIPLOMA IN HOSPITAL ADMINISTRATION
(PGDHA)
ENTRANCE EXAM
THIRD ROUND

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

Note: ➢ Do not carry your mobile in the examination hall

Q.1 What are the duties of a Hospital Administrator? **(5Marks)**

MATHS (10Marks)

Q.1 Raju can do 25% of a piece of work in 5 days.How many days will he take to complete the work ten times?
a)150 days
b)250 days
c)200 days
d)180 days
e)192 days

Q.2 A cellular phone when sold for Rs 4600 fetches a profit of 15%.Find the cost price of the cellular phone?
a)Rs.4300
b)Rs.4150
c)Rs.4000
d)Rs.4500
e)Rs.4400

Q.3.Which of the following is the largest number?
a)20% of 200
b)7% of 500
c)1300% of 3
d)600% of 7
e)700% of 9

Q.4.The ratio of the factorial of a number X to the square of the factorial of another number,which when Increased by 50% gives the required number,is 1.25.Find the number X?
a)6
b)5
c)9
d)None of these

Q.5.The number of terms of the series 54+51+48+.... Such that the sum is 513 is
a)18
b)19
c)Both a and b
d)15
e)None of these

Q.6.The average age of 24 students and the principal is 15 years.When the principal's age is excluded, the average age decreases by 1 year. What is the age of the principal?
a)38
b)40
c)39
d)37
e)Data inadequate

Q.7.The average of the first five multiples of 7 is
a)20
b)21
c)28
d)30
e)31

Q.8.The Sinhagad express left Pune at noon sharp.Two hours later,the Deccan Queen started from Pune in the same direction.The Deccan Queen overtook the Sinhagad Express at 8 p.m.Find the average speed of the two trains over this journey if the sum of their average speeds is 70 km/h.
a)34.28km/h
b)35km/h
c)50km/h
d)12km/h
e)16km/h

Q.9.In throwing a fair dice,what is the probability of getting the number "3"?
a)1/3
b)1/6
c)1/9
d)1/12
e)1/8

Q.10.By selling a cap for Rs.34.40,a man gains 7.5%.What will be the CP of the cap?
a)Rs.32.80
b)Rs.32
c)Rs.32.40
d)Rs.28.80
e)Rs.31.40

BIOLOGY(10Mark)

Q.1.Which of the following reasons is not responsible for spreading of HIV?
a)Infected blood transfusion
b)Blood donation
c)Use of infected needles
d)Sexual relations with infected persons

Q.2.In which eye defect does the lens becomes opaque?
a)Glaucoma
b)Cataract
c)Night blindness
d)Myopia

Q.3.Red Blood corpuscles in body are produced in .....
a)lymph vessel
b)plasma
c)liver
d)bone marrow

Q.4.Which of the following is the unicellular fungi used in wine preparation?
a)Viruses
b)Sugar-Cane
c)Bacteria
d)Yeast

Q.5.HIV viruses attack on.....cells in body.
a)White Blood Cells
b)Red Blood Cells
c)Thrombocytes
d)Nerve Cells

PHYSICS(10Marks)

Q.1.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

Q.2.The reciprocal of wavelength is called
a)Frequency
b)Wave velocity
c)Amplitude
d)Wave number

Q.3. Sound waves do not travel through a:
a)Solid medium
b)Liquid medium
c)Vacuum
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b)Maximun
c)Zero
d)Minimum or Maximum

Q.5. Which of the following waves cannot be polarized?
a)Light Waves
b)Sound Waves
c)Radio Waves
d)None of these

CHEMISTRY(10Marks)

Q.1.The most commonly used bleaching agent is
a)Alcohol
b)Carbon dioxide
c)Chlorine
d)Sodium chloride

Q.2.The Metallurgical process in which a metal is obtained in a fused state is called
a)Smelting
b)Roasting
c)Calcinations
d)Froth Floatation
Q.3.Which gas is used to disinfect water in swimming pools?
a)Hydrogen
b)Nitrogen
c)Chlorine
d)Oxygen

Q.4.The most electronegative element among the following is
a)Sodium
b)Bromium
c)Fluorine
d)Oxygen

Q.5.The oil used in the froth floatation process is

a)Coconut oil
b)Olive oil
c)Kerosene oil
d)Pine oil

GENERAL KNOWLEDGE(5Marks)

Q.1.SARS disease affects .....

a)Brain
b)Respiratory system
c)Nervous system
d)Liver

Q.2.Which of the following letter groups is not similar to others?

a)CHEAT
b)CREATE
c)REPEAT
d)ABATE

Q.3.Balbir Pasha'is the name of Character in the campaign to fight against?

a)HIV
b)STIs
c)TB
d)None of the above

Q.4. What is the motto of Miss World?

a)Beauty with a purpose
b)Beauty for service of mankind
c)Beauty for critical appreciation
d)Beauty to be taken care of

Q.5.National Rural Health Mission(NRHM)was launched in the year,

a) 2005
b) 2004
c) 2006
d)2002

****

SEAT NO. : _____

UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
P.G. DIPLOMA IN HOSPITAL ADMINISTRATION
(PGDHA)
ENTRANCE EXAM
SECOND ROUND

DATE: 01-Aug-15 **TIME : 12.00 PM TO 1.00 PM** **MARKS : 50**

I] **PHYSICS(10Marks)**

Q.1.Running sportsman possess.....energy

a)Pressure

b)potential

c)kinetic

d)None of the above

Q.2.The main ingredients in the cooking gas(L.P.G.)are:

a)Methane,Ethane

b)Methane,Butane

c)Butane,Propane

d)Butane,Isobutane

Q.3 ..... shines in dark.

a)Phosphorus

b)Sulphur

c)Gold

d)Iron

Q.4.Which one of the following metals is generally used for the filament of an electric bulb?

a)Platinum

b)iron

c)Copper

d)Tungsten

Q.5.Rainbow can be seen because of _____ phenomenon of light.

a)Reflection

b)Refraction

c)Diffraction

d)Dispersion

II

MATHS(10Marks)

Q.1.Find the ratio between the LCM and HCF of 5,15 and 20?

a)8:1

b)14:3

c)12:2

d)12:1

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Q.2.Find the LCM of 5/2,8/9,11/14.

a)280

b)360

c)420

d)220

e)None of these

Q.3. Find the average of the first 97 natural numbers.

a)47

b)37

c)48

d)49

e)49.5

Q.4.Find the average of all prime numbers between 30 and 50.

a)39.8

b)38.8

c)37.8

d)41.8

e)40.8

Q.5.Manish travels a certain distance by car at the rate of 12 km/h and walks back at the rate of 3km/h. The whole journey took 5 hours. What is distance he covered on the car?

a)12 km

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III **BIOLOGY(10Marks)**

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a)X-Rays

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IV **CHEMISTRY(10Marks)**

Q.1.Commonly,ammonia is produced industrially because it is used for.....

a)manufacture of proteins

b)preparation of soaps

c)production of chemical fertilizers

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V **GENERAL KNOWLEDGE(10Marks)**

Q.1.The most earthquake prone region in the world is .....

a)Japan

b)India

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****

PGDHA Seat No.

UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
ENTRANCE EXAMINATION
P.G. DIPLOMA IN HOSPITAL ADMINISTRATION (PGDHA)

DATE : 26/07/2014 **TIME : 11.00 AM TO 12.00 NOON** **MARKS : 5(**

Q.1 What are the duties of a Hospital Administrator? (5Marks)

MATHS (10Marks)

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Q.2 A cellular phone when sold for Rs 4600 fetches a profit of 15%.Find the cost price of the cellular phone?

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PGDHA II SEAT NO.

UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
ENTRANCE EXAMINATION
P.G. DIPLOMA IN HOSPITAL ADMINISTRATION (PGDHA)
SECOND ROUND

DATE : 09 - Aug - 14 TIME : 11.00 AM TO 12.00 NOON MARKS : 5

★ PHYSICS(10Marks)

Q.1.Running sportsman possess.....energy

a)Pressure

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d)None of the above

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GENERAL KNOWLEDGE(10Marks)

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PG DHA

SEAT NO. : _____

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

DATE : 08/07/13 **TIME : 11.00AM TO 12.00 NOON** **MARKS : 50**

Maths:

Q. 1- A vendor bought toffees at 6 for a rupee. How many for a rupee must he sell to gain 20%?

A. 3 B. 4

C. 5 D. 6

Q. 2- A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?

A. Rs. 375 B. Rs. 400

C. Rs. 600 D. Rs. 800

Q.3- The square root of (7 + 35) (7 - 35) is

A. 5 B. 2

C. 4 D. 35

Q.4- 3 pumps, working 8 hours a day, can empty a tank in 2 days. How many hours a day must 4 pumps work to empty the tank in 1 day?

A. 9 B. 10

C. 11 D. 12

Q. 5- How many of the following numbers are divisible by 132 ?
264, 396, 462, 792, 968, 2178, 5184, 6336

A. 4 B. 5

C. 6 D. 7

AHCI 2011

Physics;

Q.1-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

Q.2- Out of the following pairs, choose the pair in which the physical quantities do not have identical dimension?

A. Pressure and Young's modules

B. Planck's constant and Angular momentum

C. Impulse and moment of force

D. Force and rate of change of momentum

Q. 3- If two bodies of different masses, initially at rest, are acted upon by the same force for the same time, the [illegible] ire the same

A. velocity

B. Momentum

C. acceleration

D. kinetic energy

Q. 4- Pick out the scalar quantity

A. force

B. Pressure

C. velocity

D. Acceleration

Q. 5-Magnetism at the centre of a bar magnet is

A. minimum

B. Maximum

C. Zero

D. minimum or maximum

Chemistry:

Q.1- The nucleus of an atom consists of

A. electrons and neutrons

B. electrons and protons

C. protons and neutrons

D. All of the above

Q.2- The most electronegative element among the following is

A. sodium

B. Bromine

C. Fluorine

D. Oxygen

Q.3- The most commonly used bleaching agent is

A. Alcohol

B. carbon dioxide

C. Chlorine

D. sodium chloride

Q.4- The oil used in the froth floatation process is

A. coconut oil

B. olive oil

C. kerosene oil

d. pine oil

Q.5-The number of moles of solute present in 1 kg of a solvent is called its

A. molality

B. Molarity

C. normality D. Formality

Biology ;

Q. 1- The inherited traits of an organism are controlled by

A. RNA molecules B. nucleotides

C. DNA molecules D. enzyme

Q. 2- Plants receive their nutrients mainly from

A. chlorophyll B. atmosphere

C. light D. Soil

Q. 3- 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

Q.4-Process of cell division can take place by

A. Heterosis B. fusion

C. Mitosis D. None of these

Q. 5- Prokaryotic cells lack

A. Nucleolus

B. nuclear membrane

C. membrane bound by organelles

D. All of these

General-knowledge;

Q.1- 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

Q. 2- Galileo was an Italian astronomer who

A. developed the telescope

B. discovered four satellites of Jupiter

C. discovered that the movement of pendulum produces a regular time measurement

D. All of the above

Q. 3- 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 ultraviolet rays convert skin oil into Vitamin D

D. the pigment cells in the skin get stimulated and produce a healthy tan

Q. 4-The ozone layer restricts

A. Visible light

B. Infrared radiation

C. X-rays and gamma rays

D. Ultraviolet radiation

Q. 5- Ecology deals with

A. Relation between organisms and their environment

B. Cell formation

C. Birds

D. Tissues

PGDHA

SEAT NO. : _____

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

DATE : 12-Aug-13 TIME : 11.00 AM TO 12.00 NOON MARKS : 50

GENERAL ENGLISH :-

1] "You are thinking very highly about Ravi but he is not so "means.....

a. Ravi is as good as good as you think about him.

b. You have a good opinion about Ravi but he is not as good as you think.

c. Your view about Ravi is philosophical, keep it up.

d. Ravi is much better, than what you think of him.

2] I saw a ..... of cows in the field.

a. group b. herd

c. swarm c. flock

3] The grapes are now ..... enough to be picked.

a. ready b. mature

c. ripe d. advanced

4] CORPULENT(give the word with the same meaning)

a. Lean b. Gaunt

c. Emaciated d. Obese

5] BRIEF (give the word with the same meaning)

a. Limited b. Small

c. Little d. short

6] VENT (give the word with the same meaning)

a. Opening b. Stodge

c. End d. Past tense of go

7] The study of ancient societies (find the substitute)

a. Anthropology b. Archaeology

c. History d. Ethnology

8] Find the correctly spelt word.

a. Pessenger b. Passenger

c. Pasanger d. Pensager

9] GRACEFUL (Give the opposite)

a. Rough b. Expert

c. Miserable d. Awkward

10] CONDENCE (give the opposite)

a. Expand b. Distribute

c. Interpret d. Lengthen

PHYSICS :-

1] Nuclear sizes are expressed in a unit named

a. Fermi b. angstrom

c. Newton d. tesla

2] Light from the Sun reaches us in nearly

a. 2 minutes b. 4 minutes

c. 8 minutes d. 16 minutes

3] Pa (Pascal) is the unit for

a. thrust b. pressure

c. Frequency d. Co

4] Pick out the s uantity

a. Force b. p

c. velocity d. a

5] Magnetism at tre

a. minimum

c. zero d. or maxim

6] On a rainy oil fi ter shov illiant co ours. This is due to

a. dispers ferer

c. diffraction d. polarization

7] Moment of inertia is

a. vector b. scalar

c. phasor d. tensor

8] One thousand microns is equal to

a. 10^{-3}m b. 10^{-6}m

c. 10^{-9}m d. 10^{-12}m

9] Superconductors are substanc whic

a. Conduct electricity at low empera e

b. Offer high resistance to the flow of urrent

c. Offer no resistance to the flow of ectricity

d. Conduct electrici at high ter p r tures

10] Optical fibre works on the
a. Principle of refraction b. Total internal reflection
c. Scattering d. Interference

CHEMISTRY :-

1] The most commonly used bleaching agent is
a. alcohol b. carbon dioxide
c. chlorine d. sodium chlorine

2] The heat required to raise the temperature of body by 1 k is called
a. specific heat b. thermal capacity
c. water equivalent d. none of the above

3] The metal that is used as a catalyst in the hydrogenation of oils is
a. Ni b. pb
c. Cu d. Pt

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

5] The mass of one Avogadro number of helium atom is
a. 1.00 gram b. 4.00 gram
c. 8.00 gram d. $4 \times 6.02 \times 10\ 23$ gram

6] The gas used in the manufacture of vanaspati from vegetable oil is
a. hydrogen b. oxygen
c. nitrogen d. carbon dioxide

7] The most electropositive elements among the following is
a. Na b. Ca
c. K d. Cs

8] The gas used for artificial ripening of green fruit is
a. ethylene b. ethane
c. carbon dioxide d. acetylene

9] The iron are magnetite consists of
a. Fe_2O_3 b. Fe_3OH_4
c. $FeCO_3$ d. $3\ Fe_2O_3..3\ H_2O$

10] The metal does not give H_2 on treatment with dilute HCL is
a. Zn b. Fe
c. Ag d. Ca

BIOLOGY:-

1] Plants receive their nutrients mainly from

a. chlorophyll b. atmosphere

c. light d. soil

2] 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

3] Most highly intelligent mammals are

a. whales b. dolphins

c. elephants d. kangaroos

4] Prothrombin which helps in clotting of blood is released by

a. lymphocytes b. erythrocytes

c. monocytes d. blood platelet

5] Plants developing in dry conditions are

a. xerophytes b. mesophyt

c. lithophytes d. hydrophyt

6] Plants have_____ while animals lack it

a. starch b. cellulose

c. protein fa

7] Outer covering of virus made protein is

a. capsid b. coat

c. virion d. viriod

8] Most abundant tissues of our body are

a. muscular b. connective

c. epithelial d. nervous

9] Pulses are a good source of

a. carbohydrates b. fats

c. proteins d. vitamins

10] Mycobacterium leprae causes leprosy, Corynebacterium diphtheria causes diphtheria and Vibrio comma causes

a. tetanus b. influenza

c. cholera d. typhoid

General Knowledge and general intelligence:-

1] Hitler party which came into power in 1933 is known as

a. Labour Party
b. Nazi party
c. Ku-Klux-Klan
d. Democratic Party

2] Golf player Vijay Singh belongs to which country?

a. USA
b. Fiji
c. India
d. UK

3] The title 'Vikramaditya' was assumed by

a. Harsha
b. Chandragupta II
c. Kanishka
d. Samudragupta

4] The third battle of Panipat was between the

a. Afghans and the Marathas
b. Afghans and the Sikhs
c. Marathas and the Mughals under Shah Alam II
d. None of the above

5] The percentage of irrigated land in India is about

a. 45
b. 65
c. 35
d. 25

6] The Salal Project is on the river

a. Chenab
b. Jhelum
c. Ravi
d. Sutlej

7] The state having a largest area of forest cover in India is

a. Arunachal Pradesh
b. Haryana
c. Madhya Pradesh
d. Assam

8] Development expenditure of the Central government does not include

a. defence expenditure
b. expenditure on economic services
c. expenditure on social and community services
d. grant to states

9] The first wholly Indian Bank was set up in

a. 1794
b. 1894
c. 1896
d. 1902

10] Which of the following is not viewed as a national debt?

a. Provident Fund
b. Life Insurance Policies
c. National Saving Certificate
d. Long-term Government Bonds

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SEAT NO. : _____

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

DATE : 09-Jul-12 TIME : 11.00AM TO 12.00 NOON MARKS : 50

PHYSICS

1. The note middle C played on a piano always differs from middle C played on a violin because of a difference in .....
   A. frequency
   B. wavelength
   C. fundamentals
   D. harmonics

2. In a nuclear fission reactor, graphite is often used for.....
   A. absorbing neutrons and controlling the reaction
   B. slowing down neutrons
   C. preventing the radiation from escaping into atmosphere
   D. all the above.

3. In a Newton's rings experiment, the thickness of the air space between the lens and the glass plate is 1.8×10^{-6}m for the sixth dark ring. The wavelength of the light used is....
   A. 1.7×10^{-8}m
   B. 3.0×10^{-7}m
   C. 6.0×10^{-7}m
   D. 6.0×10^{-5}m

4. To produce longitudinal extension we should exert force in .....
   A. one direction only
   B. two directions
   C. perpendicular to the body in all directions
   D. parallel to the body.

5. The reciprocal of wavelength is called .....
   A. frequency
   B. wave velocity
   C. amplitude
   D. wave number

BIOLOGY

6. Plant virus contains

   A. DNA
   B. RNA
   C. DNA and RNA
   D. DNA or RNA
   E. TMV

7. Viruses contain

   A. DNA only
   B. RNA only
   C. DNA or RNA
   D. Both DNA and RNA
   E. TMV

8. Rheumatic heart disea[illegible] due to rep[illegible]eated [illegible]nfections of

   A. Staphylo[illegible]occal bacteria
   B. Streptoc[illegible]cal bacteria
   C. Pneum[illegible]ccal bacteria
   D. All of thes
   E. None of these

9. Which of the followi[illegible]tatements [illegible] correct?

   A. Poliomyelitis i[illegible]al disea[illegible]as measles is due to bacteria.
   B. Poliomyeliti[illegible] bacteria[illegible]ase, and measles is produced by a virus.
   C. Poliomyeli[illegible]d measl[illegible]e v[illegible] diseases.
   D. Both po[illegible]yelitis an[illegible]measl[illegible] bacterial diseases.
   E. Both a[illegible]cancerous.

10. Diphth[illegible]nd polio can be prevented by

    A. [illegible] proper sanitation facilities
    B. Drinking boiled water
    C. Immunization with toxoids/vaccines
    D. Proper disposal of wastes
    E. Taking healthy food

11. Tuft of capillary vessels, Which is surrounded by the Bowman's capsule, is known as the

    A. Glomerulus
    B. Malpighian Capsule
    C. Juxtaglomerular
    D. Loop of Henle
    E. Bowman's capsule

12. The waste product in the urine of man is

    A. Urea
    B. Uric acid
    C. Ammonia
    D. Protein
    E. Uraemia

13. Necrosis is a symptom which is recognized by

A. Pattern coloration of leaves
B. Little leaves
C. Outgrowth
D. Death of tissues
E. Broad leaves

14. The best and easy method of control of crop pests is by

A. Crop rotation
B. Chemicals
C. Quarantine
D. Biological control
E. Mineral deficiency

15. The number of cranial nerves in man is

A. 8 pairs
B. 10 pairs
C. 12 pairs
D. 15 pairs
E. 13 pairs

CHEMISTRY

16. The nucleus of an atom consists of
A. electrons and neutrons
B. electrons and protons
C. protons and neutrons
D. all of the above.

17. The number of moles of solute present in 1 kg of a solvent is called its
A. molality B. molarity C. normality D. formality

18. The most electronegative element among the following is
A. Sodium B. bromium C. fluorine D. oxygen

19. The metal used to recover copper from a solution of copper sulphate is
A. Na B. Ag C. Hg D. Fe

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

21. 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

ENGLISH

In the following the questions choose the word which best expresses the meaning of the given word.

22. CORPULENT
A. Lean B. Gaunt C. Emaciated D. Obese

23. BRIEF
A. Limited B. Small C. Little D. Short

24. VENT
A. Opening B. Stodge C. End D. Past tense of go

In the following questions choose the word which is the exact OPPOSITE of the given words.

25. ENORMOUS
A. Soft B. Average C. Tiny D. Weak

26. COMMISSIONED
A. Started B. Closed C. Finished D. Terminated

27. ARTIFICIAL
A. Red B. Natural C. Truthful D. Solid

28. The most commonly used bleaching agent is
A. alcohol B. carbon dioxide C. chlorine D. sodium chlorine

29. The nucleus of a hydrogen atom consists of
A. 1. Proton only
B. 1 proton + 2 neutron
C. 1 neutron only
D. 1 electron only

30. The heat required to raise the temperature of body by 1 K is called
A. specific heat B. thermal capacity C. water equivalent D. None of the above

31. The metal that is used as a catalyst in the hydrogenation of oils is
A. Ni B. Pb C. Cu D.Pt

GENERAL KNOWLEDGE

32. For which of the fo ing ciplines is Nobel Prize awarded?
A. Physics and Chem y
B. Physiology or Medic ne
C. Literature, Peace an economics
D. All of the above.

33. Hitler party which came into power in 1933 is known as
A. Labour Party
B. Nazi Party
C. Ku-Klux-Klan
D. Democratic Party

34. Galileo was an Italian astronomer who
A. developed the telescope
B. discovered four satellites of Jupiter
C. discovered that the movement of pendulum produces a regular time measurement
D. All of the above

35. First human heart transplant operation conducted by Dr. Christian Bernard on Louis Washkansky, was conducted in
A. 1967 B. 1968 C. 1958 D.1922

36. 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 and produce a healthy tan
D. the ultraviolet rays convert skin oil into Vitamin D

37. Even if it rains I shall come means .....
A. if I come it will not rain
B. if it rains I shall not come
C. I will certainly come whether it rains or not
D. whenever there is rain I shall come
E. I am less likely to come if it rains

38. His appearance is unsmiling but .....
A. his heart is full of compassion for others
B. he looks very serious on most occasions
C. people are afraid of him
D. he is uncompromising on matters of task performance
E. he is full of jealousy towards his colleagues

39. Fate smiles ..... those who untiringly grapple with stark realities of life.
A. with B. over C. on D. round

40. Catching the earlier train will give us the ..... to do some shopping.
A. chance B. luck C. possibility D. occasion

41. Golf player Vijay Singh belongs to which country?
A. U.S.A B. Fiji C. India D. UK

42. During World War II, when did Germany attack France?
A. 1940 B. 1941 C. 1942 D. 1943

43. The ozone layer restricts.
A. Visible light B. Infrared radiation
C. X-rays and gamma rays D. Ultraviolet radiation

44.. 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.

45. Ecology deals with
A. Birds
B. Cell formation
C. Relation between organisms and their environment
D. tissues

MATHS

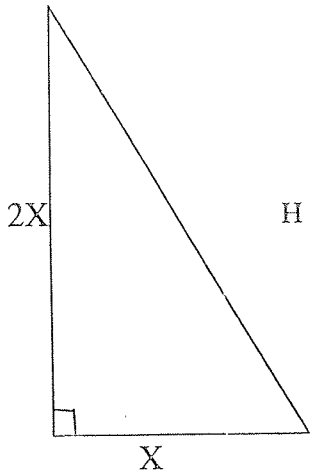
46. Which of the following is equal to $\sqrt{48}$

A 16 B $3\sqrt{4}$ C $4\sqrt{3}$ D $18\sqrt{3}$ E 24

47. If a tire rotates at 400 revolutions per minute when the car is travelling 72km/h, what is the circumference of the tire?

A 3m B 2m C 4m D 1m

48. Find the lengths of all sides of the right triangle below if its area is 400.



A 10 B 20 C 5 D 15

49. What is the side oppos o the right angle in a right angled triangle called

A Not hypotenuse B Opposite side C Hypotenuse. D Right side

50. What is the formula for calculating the area of a triangle?

A 1/2 x length of base
B 1/2 x length of base x height of triangle.
C 1/2 x length
D 1/2 x height of triangle.

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PGDHA

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

DATE : 10-08-11 TIME : 11 AM TO 12 PM MARKS : 50

GENERAL ENGLISH :-

1] "You are thinking very highly about Ravi but he is not so "means.....
a. Ravi is as good as good as you think about him.
b. You have a good opinion about Ravi but he is not as good as you think.
c. Your view about Ravi is philosophical, keep it up.
d. Ravi is much better, than what you think of him.

2] I saw a ..... of cows in the field.
a. group b. herd
c. swarm c. flock

3] The grapes are now ..... enough to be picked.
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c. ripe d. advanced

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a. Lean b. Gaunt
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6] VENT (give the word with the same meaning)
a. Opening b. Stodge
c. End d. Past tense of go

7] The study of ancient societies (find the substitute)
a. Anthropology b. Archaeology
c. History d. Ethnology

8] Find the correctly spelt word.

a. Pessenger b. Paasenger

c. Pasanger d. Perssager

9] GRACEFUL (Give the opposite)

a. Rough b. Expert

c. Miserable d. Awkward

10] CONDENCE (give the opposite)

a. Expand b. Distribute

c. Interpret d. Lengthen

PHYSICS :-

1] Nuclear sizes are expressed in a unit named

a. Fermi b. angstrom

c. Newton d. tesla

2] Light from the Sun reaches us in nearly

a. 2 minutes b. 4 minutes

c. 8 minutes d. 16 minutes

3] Pa (Pascal) is the unit for

a. thrust b. pressure

c. Frequency d. Conductivity

4] Pick out the scalar quantity

a. Force b. pressure

c. velocity d. acceleration

5] Magnetism at the centre of a bar magnet is

a. minimum b. maximum

c. zero d. minimum or maximum

6] On a rainy day, small oil films on water show brilliant colours. This is due to

a. dispersion b. interference

c. diffraction d. polarization

7] Moment of inertia is

a. vector b. scalar

c. phasor d. tensor

One thousand microns is equal to

a. 10^{-3}m b. 10^{-6}m

c. 10^{-9}m d. 10^{-12}m

Superconductors are substances which

a. Conduct electricity at low temperature

b. Offer high resistance to the flow of current

c. Offer no resistance to the flow of electricity

d. Conduct electricity at high temperatures

f] Optical fibre works on the

a. Principle of refraction b. Total internal reflection

c. Scattering d. Interferenece

HEMISTRY :-

The most commonly used bleaching agent is

a. alcohol b. carbon dioxide

c. chlorine d. sodium chlorine

The heat required to raise the temperature of body by 1 K is called

a. specific heat b. thermal capacity

c. water equivalent d. none of the above

The metal that is used as a catalyst in the hydrogenation of oils is

a. Ni b. ~~Pb~~ Pb

c. Cu d. Pt

The monomer of polythene is

a. vinyl chloride b. ethylene

c. ethyl alcohol d. None of the above

The mass of one Avogadro number of helium atom is

a. 1.00 gram b. 4.00 gram

c. 8.00 gram d. 4 × 6.02 × 10 23 gram

The gas used in the manufacture of vanaspati from vegetable oil is

a. hydrogen b. oxygen

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The most electropositive elements among the following is

a. Na b. Ca

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c. $FeCO_3$ d. $3Fe_2O_3.3H_2O$

The metal does not give H_2 on treatment with dilute HCL is

a. Zn b. Fe

c. Ag d. Ca

OLOGY:-

Plants receive their nutrients mainly from

a. chlorophy ll b. atmosphere

c. light d. soil

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

Most highly intelligent mammals are

a. whales b. dolphins

c. elephants d. kangaroos

Prothrombin which helps in clotting of blood is released by

a. lymphocytes b. erythrocytes

c. monocytes d. blood platelets

Plants developing in dry conditions are

a. xerophytes b. mesophytes

c. lithophytes d. hydrophytes

Plants have_____ while animals lack it

a. starch b. cellulose

c. protein d. fat

Outer covering of virus made up of protein is

a. capsid b. coat

c. virion d. viriod

Most abundant tissues of our body are

a. muscular b. connective

c. epithelial d. nervous

Pulses are a good source of

a. carbohydrates b. fats

c. proteins d. vitamins

Mycobacterium leprae causes leprosy, Corynebacterium diphtheria causes diphtheria and Vibrio comma causes

a. tetanus b. influenza

c. cholera d. typhoid

eral Knowledge and general intelligence:-

Hitler party which came into power in 1933 is known as

a. Labour Party b. Nazi party

c. Ku-Klux-Klan d. Democratic Party

Golf player Vijay Singh belongs to which country?

a. USA b. Fiji

c. India d. UK

The title 'Vikramaditya' was assumed by

a. Harsha b. Chandragupta II

c. Kanishka d. Samudragupta

The third battle of Panipat was between the

a. Afghans and the Marathas

b. Afghans and the Sikhs

c. Marathas and the Mughals under Shah Alam II

d. None of the above

The percentage of irrigated land in India is about

a. 45 b. 65

c. 35 d. 25

The Salal Project is on the river

a. Chenab b. Jhelum

c. Ravi d. Sutlej

The state having a largest area of forest cover in India is

a. Arunachal Pradesh b. Haryana

c. Madhya Pradesh d. Assam

Development expenditure of the Central government does not include

a. defence expenditure

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c. expenditure on social and community services

d. grant to states

The first wholly Indian Bank was set up in

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b. Life Insurance Policies

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d. Long-term Government Bonds

PGDHA

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UNIVERSITY OF MUMBAI
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT
POST GRADUATE DIPLOMA IN HOSPITAL ADMINISTRATION
ENTRANCE EXAM

DATE : **TIME : 11 AM. TO 12 PM.** **MARKS :50**

1) GENERAL ENGLISH

1) VERACITY (Opposite word)
   A) treachery B) falsity
   C) dishonesty D) pretence

2) MODESTY (Opposite word)
   A) arrogance B) superiority
   C) hypocrisy D) vanity.

3) SAGE
   A) snob B) egoist.
   C) rogue D) fool

4) Although he was tried he ..... working
   A) was going on B) is going on
   C) goes on D) went on

5) We Shall finish the work before he ..... back.
   A) will come B) shall come
   C) comes D) would come

6) Perfect health depends on the ..... of a few simple rules to health.
   A) observation B) occurrence.
   C) observance D) adaptation.

7) The wounded soldiers were ..... by their comrades.
   A) enervated B) evacuated.
   C) appalled D) excavated.

8) CLUE (nearly same meaning word)
   A) hint. B) inkling
   C) intimation D) signal.

9) PLEASURE
   A) disappointment B) happiness
   C) grief D) anxiety

10) CAUTIOUSLY
   A) carefully B) genuinely c) secretly d) somewhat

2) CHEMISTRY:-

1) The Formation of a chemical bond is associated with ---------
   a) a decrease in potential energy
   b) an increase in potential energy
   c) no change in potential energy
   d) none of these.

2) Which one of the following is neither an element nor a compound:
   a) Air b) Glucose
   C) Gold d) Water

3) Fermentation invariably leads to the formation of ---------
   a) Ethyl alcohol b) methyl alcohol
   c) Carbon dioxide d) Acetic acid

4) Boyle's law deals with the relationship of ----------
   a) pressure & volume b) mass and volume
   c) pressure & temperature d) volume & temperature

5) The portion of nitrogen in the open air is ----------
   a) 21 % by volume. b) 50 % by weight
   c) 21 % by weight d) 78 % by volume

6) Hydrogen is liberated from nitric acid by the action of ---------
   a) Nickel b) Mercury
   c) Magnesium d) Copper.

7) The most abundant element in the earth crust is
   a) O b) A1
   c) Si d) Fe

8) Which one of the following has the strongest bleaching property ?
   a) Chlorine b) Fluorine
   c) Bromine d) Lithium

9) Which one of the following is used as fuel ?
   a) CO_2 b) CH_4
   c) CH_3OH d) SO_2

10) The compound having the molecular formula $C_2H_4O_2$ is an ----------
   a) acid b) aldehyde
   c) alkali d) ether.

3) PHYSICS

1) In the visible spectrum the colour having the shortest wavelength is -----
   a) Violet b) Blue
   c) Red d) Yellow
   e) green

2) The unit of power is ----------
   a) Joule per second only. b) Joule only
   c) Watt only d) Joule per second & watt both
   e) Erg.

3) The heater element in an electric iron is made of -------
   a) Copper b) Tungsten
   c) Michrome d) Iron e) Platinum

4) At sun rise or at sun set, the sun appears to be reddish while at hidden it looks white. Thus is because --------
   a) The sun is colder at sunrise or at sunset.
   b) Diffraction sends red rays to the earth at these time.
   c) Scattering due to dust particles and air molecules causes this phenomenon.
   d) None of these.

5) The radiant energy of the sun results from ----------
   a) Nuclear fusion. b) Nuclear fission.
   c) Cosmic radiation. d) Combustion.

6) The surface water in a lake is just going to freeze. What is the temperature of water at the bottom?
   a) 0^{o}_{C} b) $4^{o}c$ c) more than $4^{o}c$ d) $-2^{o}c$

7) If you float on your back on water your weight is ----------
   a) Equal to your normal weight.
   b) Half of your normal weight.
   c) Zero.
   d) Greater than the weight of water displaced by you.

8) Which of the following is the most viscous medium?
   a) Coaltar b) Water
   c) Glycerine d) Alcohol.

9) The instrument connected with the recording and reproduction of sound is called ----
   a) Gramophone b) Headphone
   c) Hydrophone d) Ear phone.

10) A pond of clear water appears less deep than it really is, this is due to-
   a) reflection b) refraction
   c) dispersion d) none of these.

4) **BIOLOGY:-**

1) Genes are located on----------
   a) Mitochondria b) Chromosomes
   c) Plastids d) nuclear membrane.

2) DNA differs from RNA in having
   a) uracil b) adenine
   c) tymine d) cytosine

3) Which is Collip's hormone ?
   a) Thyroxine b) Parathoramone
   c) Insulin d) Esterogen

4) A nucleoprotein resembling eukaryotic chromosome is ----------
   a) Virus b) Liporotien
   c) Permease d) Biloprotien

5) Plants can be made disease resistant by----------
   a) Treating with Colchicine
   b) Inducing mutations
   c) Breading with their wild relatives.
   d) treating with 2-4D

6) The movement of water molecule from one cell to another depends on--------
   a) Osmotic Concentration b) turgor pressure
   c) wall pressure d) plasma pressure

7) Water from soil enters into root hairs owing to----------
   a) atmospheric pressure b) Capillarity
   c) root pressure d) Osmotic pressure

8) The enzyme found in the saliva is ----------
   a) Plylin b) Pepsin
   c) lipase d) amylase.

9) Which type of soil is the best for wheat crop ?
   a) loam b) Sandy loam
   c) Sandy d) Clay

10) The heart of a young man beats about----------
   a) 50 times per minute
   b) 72 times per minute
   c) 90 times per minute
   d) 40 times per minute

5) GENERAL KNOWLEDGE & GENERAL INTELLIGANCE

1) H.U.D.C.O stands for---
   a) Housing & Urban Development Corporation
   b) High Under Development Corporation
   c) The name of an American leading oil company
   d) The name of British Company

2) The third Empire in France came to an end in the year.
   a) 1815 b) 1848
   c) 1870 d) 1876

3) Which is the national animal of India ?
   a) Lion b) Tiger
   c) Leopard d) Sunflower

4) Which is the more powerful house of legislature at the center in India ?
   a) Rajya Sabha b) Lok Saba
   c) Both are equally powerfull d) None of these

5) Which film bagged the best feature film 74th Oscar Award 2002 ?
   a) American Beauty b) A Beautiful Mind
   c) Elizabeth d) None of these

6) How many languages are recognized by the constitution of India in the 8th Schedule ?
   a) 14 b) 16
   c) 18 d) 12

7) Which of the following companies is the first in India to allow for 'Direct to Home' service ?
   a) Star b) Sun
   c) Zee d) Doordarshan

8) The largest river in the world is:
   a) Nile b) Brahmputra
   c) Amazon d) Missisipi e) Ganga

9) The Oceans cover -------- of the surface of the earth ?
   a) 50% b) 60%
   c) 71% d) 80%

10) The biggest planet is :
   a) Uranus b) Jupiter
   c) Pluto d) Mercury e) Venus.