EMMANUEL MISSION SR SEC SCHOOL, BEAWAR
ONLINE CLASSES
DAY 56 (24.11.2020)

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SCIENCE MATHS (XI)

Physics: Kindly see below

Chemistry: Kindly see below

Mathematics: Kindly see below

Physical Education: Kindly see below

Computer Science: Kindly see below

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SCIENCE BIOLOGY (XI)

Physics: Kindly see below

Chemistry: Kindly see below

Biology: Kindly see below

Physical Education: Kindly see below

Computer Science: Kindly see below

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COMMERCE (XI)

Accountancy: Kindly see below

Business Studies: Kindly see below

Economics: Kindly see below

Physical Education: Kindly see below

Computer Science: Kindly see below

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COMMERCE MATHS (XI)

Accountancy: Kindly see below

Business Studies: Kindly see below

Economics: Kindly see below

Mathematics: Kindly see below

1. A person holds on a weight of 10 kg at a height of 5 m above the ground for 5   minutes .Work done by him is
   (a) Zero   (b) 50 J (c) 250J   (d) 300 J

2. In any kind of collision
   (a) Linear momentum is always conserved
   (b) Kinetic energy is always conserved
   (c) both (a) and (b)
   (d) neither (a) nor (b)

3. The minimum force required just to move a block on a rough horizontal surface is 5 N. The block fails to move when a force of 3 n applied on it. Static friction is
   (a) 5 N   (b) 3 N   (c) 4 N   (d) zero

4. Which of the following is a self adjusting force ?
   (a) Kinetic friction   (b) Limiting friction
   (c) Static friction   (d) All the three

5. Angle of repose for a rough inclined plane is 60 . The coefficient of friction is
   (a) 3   (b) 1   (c) 1   (d) Zero

6. When the surface in contact are made too smooth by polishing , force of friction
   (a)Decreases   (b) Increases
   (c)Becomes zero   (d) Becomes infinite

7. Newton's first law defines
   (a) Force only   (b)Inertia only
   (c)Both force and inertia   (d) Neither force nor inertia

8. The linear momentum of a body changes at the rate of 10 kg ms^{-1} per second. Force acting on the body is
   (a) 1 N   (b) 10 N   (c) 1 Kg f   (d) 10 Kg f

9. Accelerated motion is always due to
   (a) Internal force   (b) Friction   (c)External force   (d)None of these

10. For a given change in linear momentum, when time of impact increases, force
    (a)Decreases   (b)Increases
    (c)Remains same   (d)None of these

11. Force of action and reaction never cancel each other as they are
    (a)Always equal   (b)Always opposite
    (c)Acting on same body   (d)Acting on different bodies

12. Path of the bomb released from an aeroplane moving with uniform velocity at certain height as observed by the pilot is
    (a) A straight line   (b) A parabola   (c)A circle   (d)None of these

13. A train 100 m long is moving with a velocity of 60 km/h. the time it takes to cross the bridge 1 km long is
    (a) 60 s   (b) 66s   (c) 30s   (d)33 s

14. The correct relation between joule and erg is
    (a) 1 J =10^{-7}erg   (b) 1 J =10^{7}ergs
    (c) 1 J =10^{-5}ergs   (d) 1 J =10^{5}ergs

15. Classical physics does not include subjects like
    (a) Mechanics   (b) Heat   (c) Elementary   particle   (d) Sound

1. **Gastric juice contains HCl which is one example of**
a. inorganic acid
b. organic acid
c. soft organic acid
d. strong inorganic acid

2. **When milk of magnesia reacts with acetic acid it produces**
a. basic salts
b. acidic salts
c. neutral salt
d. complex salt

3. **Baking powder is**
a. sodium carbonate + sodium tartaric
b. sodium bicarbonate + sodium tartaric
c. sodium carbonate + tartaric acid
d. sodium carbonate + sodium benzoate

4. **The acid used for the manufacture of fertilizers and explosives is**
a. nitric acid
b. sulfuric acid
c. phosphoric acid
d. hydrochloric acid

5. **Could BF_3 acidity be clarified using one of the following concepts?**
a. Arrhenius concept
b. Bronsted Lowry concept
c. Lewis concept
d. Bronsted Lowry as well as Lewis concept

6. **Which one of the following species cannot act as both Bronsted acid and base?**
a. H_2O
b. HCO_3^-
c. HSO_4^-
d. NH_2^-

7. **What will be the value of pH of 0.01 mol dm^{-3} CH_3COOH (Ka = 1.74 x 10^{-5})?**
a. 3.4
b. 3.6
c. 3.9
d. 3.0

8. **For acidic solution**
a. $pH = 7$
b. $pH < 7$
c. $pH > 7$
d. None of these

9. The oxidation number of Cr in K_2CrO_4 is
a. +6
b. -6
c. +8
d. -8

10. The energy released in the form of nuclear radiation in addition to heat and light during nuclear reactions is known as
a. chemical energy
b. nuclear energy
c. heat energy
d. electrical energy

11. Fireworks release energy in the form of
a. heat
b. sound
c. light
d. all of the above

12. In the exothermic reaction, the enthalpy of reaction is always
a. zero
b. positive
c. negative
d. none of these

13. In the process of rubbing hands, mechanical energy is converted into
a. sound energy
b. electrical energy
c. thermal energy
d. heat energy

14. The heat required to raise the temperature of 1 mole of a substance by 1° is called
a. specific heat
b. molar heat capacity
c. water equivalent
d. specific gravity

15. The first law of thermodynamics states that energy can not be
a. created only
b. destroyed only
c. converted
d. created and destroyed

1. A = { 1,2,3,4} and B = {3,1,4,2} then
   a. A $\subset$ B
   b. B $\subset$ A
   c. A = B
   d. None of these
2. {2,3,4} is a subset of
   a. {2,3,4,5}
   b. {2,4,5,6}
   c. {3,4,5,6}
   d. {2,3,5,6}
3. A $\subset$ B if
   a. a ϵ A implies a ϵ B
   b. a ϵ B implies a ϵ A
   c. Both a and b
   d. None of these
4. If A is a set with n (A) = 4 then number of elements in P (A) is
   a. 2^2
   b. 2^4
   c. 4^2
   d. None of these
5. Modulus function is :
   a. f(x) = x
   b. f(x) = -x
   c. f(x) = |x|
   d. f(x) = [x]
6. A U A`
   a. A
   b. A`
   c. U
   d. Φ
7. Which of the following is true
   a. range $\subset$ domain
   b. range = domain
   c. domain $\subset$ range
   d. both a and b
8. [x] = -1 for
   a. $-1 \leq x < 0$

b. $0 \le x < 1$

c. $1 \le x < 2$

d. $2 \le x < 1$

9. The domain of A = {(2,3) (3,4) (4,5) (5,6)} is

   a. {2,3,4,5}

   b. {3,4,5,6}

   c. {3,4,5}

   d. {2,4,5,6}

10. Find the radius of the circle in which a central angle of 60 degree intercepts an arc of length 37.4cm

   a. 37.5cm

   b. 32.7cm

   c. 35.5cm

   d. 35.7cm

11. Sin $3\pi/2$ =

   a. 1

   b. Not defined

   c. 0

   d. -1

12. The value of cosec x is positive in which quadrants

   a. I, II

   b. I, III

   c. I, IV

   d. II, III

13. cos (x-y) =

   a. Sin x cos y – cos x sin y

   b. Sin x cos y + cos x sin y

   c. Cos x cos y – sin x sin y

   d. Cos x cos y + sin x sin y

14. tan $13 \pi/12$ =

   a. $2+\sqrt{3}$

   b. $2-\sqrt{3}$

   c. $3-\sqrt{2}$

   d. none of these

15. Solution of $x^2 + 16 = 0$ is

   a. $\pm 4i$

   a. $-4i$

   b. $\sqrt{-4i}$

   c. None of these

Q. 1 Systema Naturae is written by:
     a. Linnaeus
     b. Aristotle
     c. Hippocrates
     d. Darwin

Q.2 Which one of these is not a eukaryote?
     a. Euglina
     b. Anabaena
     c. Spirogyra
     d. Agaricus

Q.3 . Name the elements which occur in nucleic acid macromolecule-
     a. C,H,O,N,S
     b. C,O,N,S
     c. C,O,P,S
     d. C,H,O,N,P

Q.4   Name the tissue which have specialised cells to store fat-
     a) Connective tissue
     b) Adipose
     c) Muscular
     d) Neural

Q.5 In blue green algae nitrogen fixation occurs in specialised cells called:
     a) harmogonia
     b) Akinetes
     c) Heterocysts
     d) Zygospores

Q.6 **Haemoglobin has**
     a) Primary structure
     b) Secondary structure
     c) Tertiary structure
     d) Quaternary structure

Q.7 Vascular bundles are not found in
     a) Gymnosperms
     b) Pteridophytes
     c) Angiosperms
     d) Bryophytes

Q.8 **In which of the following an anticodon occurs**
     a) tRNA
     b) mRNA
     c) rRNA
     d) DNA

Q.9 The fastest enzyme is
     a) DNA gyrase
     b) Pepsin
     c) DNA polymerase
     d) Carbonic anhydrase

Q.10 The transport of male gametes in bryophytes and pteridophytes occurs through
   a) Wind
   b) Water
   c) Birds
   d) Insects

Q.11 The condensation of chromosomes is observed in _____
   a) Prophase 1
   b) Anaphase 1
   c) Metaphase 1
   d) None of the above

Q.12 Nuclear DNA replicates in the _____ phase.
   a) G2 phase
   b) M phase
   c) S phase
   d) None of the above

Q.13 ____ is the number of DNA in the chromosome at the G2 stage of the cell cycle
   a) 1
   b) 2
   c) 3
   d) 0

Q.14 The longest stage in the cell cycle is
   a) Interphase
   b) Anaphase
   c) Metaphase
   d) None of the above

Q15. The _____ state implies the exit of cells from the cell cycle
   a) S
   b) G1
   c) G2
   d) G0

Q1. Ledger account is prepared from :
(a) Vouchers (b)Trial Balance (c) Journal
(d) Financial statements

Q2. Trial balance shows :
(a) Only debit balance
(b) Only credit balance
(c) Both debit & credit balances
(d)Either of debit or credit balances

Q3. What type of following accounts will have debit balance only?
(a) Personal Account (b)Real Accounts
(c) Nominal Accounts (d) All of the above

Q4. The process of transferring the transaction from the journal to the ledger is called :
(a)Journalising (b)Posting
(c) Balancing (d)Costing

Q5. Ravi has purchased goods for cash from Girish for Rs. 10,000.It will be recorded in :
(a) Journal Book (b) Cash book
(c) Petty cash book (d) Both cash & journal book

Q6. Deposit of cash into bank is recorded in :
(a) Debit of bank column and credit of cash column
(b) Debit of cash column and credit of bank column
(c) Debit of cash column and also credit of cash column
(d) Debit of bank column and also credit of bank column

Q7. Balance in the petty cash book is :
(a)An expense (b) A profit
(c) An asset (d) Income

Q8. When a firm maintain two column cash book, it does not maintain:
(a) Purchase book (b) Sales book
(c) Journal Proper (d) Bank & cash account in ledger

Q9. If Ram has sold good for cash to Param, the entry will be recorded in the :
(a) Cash book (b) Sales book
(c) Journal proper (d) Petty cash book

Q10. If Sonu has sold good on credit to Monu, the entry will be recorded in the :
(a) Cash book (b) Sales book
(c) Journal proper (d) Petty cash book

Q11. Sales of business asset on credit is recorded in :
(a) Cash book (b) Sales book
(c) Journal proper (d) Petty cash book

Q12.   Assets purchased on credit are recorded in the :
      (a) Cash book   (b) Sales book
      (c) Journal proper   (d) Petty cash book
Q13.   The total of sales book is posted to :
      (a)Debit of sales account   (b)Credit of sales account
      (c) Debit of customers account(d) Credit of customers account
Q14. Opening entry in recorded :
      (a) In the beginning of accounting year
      (b) In the end of accounting year
      (c) In the middle of accounting year
      (d) Any time during the year
Q15.   Closing entries are passed :
      (a) In the beginning of accounting year
      (b) In the end of accounting year
      (c) In the middle of accounting year
      (d) Any time during the year

Multiple choice questions:

Q1. Private company is related to which sector:

(a) Mixed

(b) Public

(c) Private

(d) Government

Q2. It is not an application of e-business

(a) Contract R&D

(b) Online trading

(c) Online procurement

(d) Online bidding

Q3. Small scale Fixed retailers includes _____

(a) Hawkers

(b) Peddlers

(c) Cheap Jacks

(d) General stores

Q4. A warehouse keeper accepts goods for the purpose of _____

(a) Selling

(b) Packaging

(c) Export

(d) Storage

Q5. When goods are imported for the purpose of export is called as _____

(a) Foreign trade

(b) Entrepot

(c) Home trade

(d) Trade

Q6. Which is not included in small business?

(a) Business run by women's

(b) Cottage industries

(c) Khadi and rural industry

(d) Industry having investments up to 2 crore.

Q7. Centralized control in MNC's implies control exercised by :

(a) Branches

(b) Subsidiaries

(c) Headquarters

(d) Parliament.

Q8. India has of small business undertakings:

(a) 95

(b) 92

(c) 90

(d) 94.

Q9. It helps disabled and elderly people.
(a) Tele-shopping
(b) E-commerce
(c) multiple shop
(d) installment system

Q10. Which is not MNC's of USA:
(a) Coca Cola
(b) Pepsi
(c) Partnership
(d) Joint venture

Q11. Punjab National Bank is related to which sector:
(a) Mixed
(b) Private
(c) Public
(d) None of these.

Q12. 'Indian Railway 'is a part of Railway Ministry. It is organized , and controlled by Railway Ministry . The finances are allocated from government treasury and revenue it earns is deposited to government treasury only .It is treated as a part of government and even the recruitment and selection of employees is done in the same way as that of civil servant. Name the type of public sector enterprise 'Indian Railways' is.
(a) Departmental Undertaking
(b) Multinational Cooperation
(c) Government Company
(d) None of these

Q13. Shubham has taken a loan from saurabh against the security of his factory. Can Saurabh take a fire insurance policy of that factory?
(a) Yes
(b) No
(c) Not Possible
(d) None of these

Q14. This is not a benefit of e –business.
(a) Convenience
(b) Low personal touch
(c) Global reach
(d) Customer satisfaction

Q15. John has a consumer electronic goods shop in south Delhi . Which type of retailed is he doing?
(a) General store
(b) Cheap jack
(c) Special shop
(d) Second hand goods shop

1. Opportunity Cost is the
   (a) Number of units sacrificed   (b) Number of units gained
   (c) Cost of next best alternative foregone   (d) None of these
2. A point outside the PPF indicates
   (a) Fuller utilisation of resources   (b)) Unutilisation of resources
   (c) Unattainable   combination   (d) None of these
3. Which of these is not a property of   indifference curve?
   (a) Indifference curve   slopes downwards
   (b) Indifference curve is concave to the origin
   (c) Two indifference curves cannot   intersect each other
   (d) Higher indifference curve represents higher level of satisfaction
4. When we add up utility derived from consumption of all the units of the commodities, we get:
   (a) Total Utility   (b) Initial Utility   (c) Marginal Utility   (d) None of these
5. Increase in price of substitute good leads to:
   (a) Expansion in demand   (b) Increase in demand
   (c) Decrease in demand   (d) Contraction in demand
6. Which one of these is not an example of substitute goods?
   (a) Tea and coffee   (b) Coke and Pepsi
   (c) Ink pen and Ball pen   (d) Bread and Butter
7. Expansion in demand leads to
   (a) Rightward Shift in demand curve
   (b) Downward Movement along the demand curve
   (c) Upward Movement along the demand curve
   (d) None of these
8. Cross demand states the relationship between:
   (a) Demand of given commodity and price of related goods.
   (b) Demand of given commodity and income of the consumer.
   (c) Demand of given commodity and taste and preferences .
   (d) None of these.
9. Which of the following influence price elasticity of demand?
   (a) Nature of the commodity   (b) Income Level
   (c) Availability of substitutes   (d) All of these
10. If a good takes up significant share of consumers'   budget, it will be:
    (a) Less elastic   (b) Highly elastic
    (c) Unitary elastic   (d) Perfectly elastic
11. Which of the following will have elastic demand?
    (a) Matchbox   (b) NCERT Textbook
    (c) Medicines   (d) Air Conditioners
12. When AP is maximum , MP is equal to:
    (a) AP   (b) TP   (c) Zero   (d) One
13. Both AP and MP curves are generally:
    (a) U-shaped   (b) Inversely U- shaped
    (c) Rising   (d) Falling
14. Average product cannot be negative because:
    (a) Total product can never be zero
    (b) Total product can never be negative
    (c) neither (a) nor (b)
    (d) Both (a) and (b)
15. MC can be directly derived from
    (a) TFC   (b) TVC   (c) AC   (d) AFC

PHYSICAL EDUCATION
Sample Paper 1

All Question are compulsory.

Q.1. What is the aim of physical Education?
(a) Physical development.   (b) Mental development
(c) Social development (d) All round development

Q.2. When did "khelo India" program was started first?
(a) 21 January, 2017 (b) 31 January, 2018
(c) Ist January 2019 (d) 31 January, 2019

Q.3. What is the full form of IOC?
(a) Indian olympic committeee (b) International olympic committee
(c) Indian olympic company. (d) None of the above

Q.4. When did the first modren olympic gemes was held?
(a) 1896   (b) 1986
(c) 1996   (d) 1857
Or
Olympic flag consists of how many cireles?
(a) 3   (b) 4
(c) 5   (d) 6

Q.5. Isotonic strength also called the?
(a) Strength   (b) Static strength
(c) Dynamic strength (d) None of the above

Q.6. How many types of active flexibility.
(a) 2   (b) 3
(c) 4   (d) None of the above

Q.7. When did the first para olympic game was help?
(a) 1950   (b) 1960
(c) 1961   (d) 1962

Q.8. When did the first- 'special olympic Bharat organisation was established?
(a) 2000   (b) 2001
(c) 2002   (d) 2003

Q.9. Which one of these is not a elements of yoga?
(a) Pranayam   (b) Sharma
(c) Karma   (d) Dhayana

Q.10. Which Asana's is known as 'tree pose'
(a) Tadasana.   (b) Padmasana
(c) Vrikshasana   (d) Garudasana

Q.11.How many components of pranayama?
(a) 3.   (b) 2
(c) 4   (d) 5

Q.12. Which one of them is not a Adventure sport?
(a) Rock climing.   (b) Tracking
(c) River Rafting   (d) Swimming

Q.13. What is the normal range of body mass index?
(a) 20 – 25   (b) 25 – 30
(c) 18.5 – 24.9   (d) 30.0 – 34.9

Q.14.Which of the following body type person good for Adventure activity?
(a) Ectomorph   (b) Mesomorph
(c) Endomorph (d) None of the above

Q.15. Which one of the following is not a component of wellness.
(a) Mental well being   (b) Maximum strength
(c) Moral well being   (d) Emotional well being

Q1) Which data type is mutable

a) list   b) table   c) tuple   d) none of the above

Q2) Which of the following is a Python tuple?

a) [1, 2, 3]   b) (1, 2, 3)   c) {1, 2, 3}   d) {}

Q3) What is the answer to this expression, 22 % 3 is?

a) 7   b) 1   c) 0   d) 5

Q4) Which is valid identifier in python

a) 2name   b) while   c) a1   d)father name

Q5) which data type is mutable

a) list b) tuple c) table d) none of the above

Q6) Which is not keyword in python

a) if   b) ELIF   c) else   d) for

Q7) Which is not valid identifier in python

a) name   b)while   c)a1   d)father_name

Q8) Which statement is used to input data in python

a) print   b) input   c)for d)if

Q9) which statement is used to repeat statement in python

a) print   b) input   c)for d)if

Q10) which operator is used to find remainder

a) /   b) ** c) % d)//

Q11) who develop python language

a) Denis Ritchi   b) mark Zuckerberg   c) guido van possum   d) Bjarne strostrup

Q12) Which memory is volatile

a) hard disk   b) RAM   c) ROM   d) Pen drive

Q13) What is meaning of 15 in hexadecimal Number System

a) C   b) D   c) E   d) F

Q14) What is the ASCII code of D

a) 01000001   b) 01000011   c) 01000010 d) 01000100

Q15) What is meaning of 13 in hexadecimal Number Syste

a) d   b) D   c)C   d)c