

USWA COLLEGE ISLAMABAD

**Class XI
Paper English**

Time Allowed: 30 Minutes

Total Marks: 20

Name: _____

Father's Name: _____

Roll No. _____

Group: _____

Q. 1 Do as directed:

(10)

i) Make two compound sentences.

ii) Write down one sentence of First conditional and one of third conditional.

iii) Make two passive sentences.

iv) Make two sentences of perfect continuous tenses.

v) Make one sentence each using 'who' and 'whom' as relative pronouns.

vi) Make two negative sentences of the Past Indefinite Tense.

vii) Make one imperative (positive) and one imperative (negative) sentence.

viii) Make two exclamatory sentences using what & how.

ix) Use the past participle from of the verb in two sentences.

x) Write down one sentence each using comparative and superlative degrees of adjective.

Q. 2 Correct five (5) errors in the following passage (two spellings, two preposition, one punctuation). (5)

Arabia is a land of unparralalled charm and beauty. It's stary sky has excited the imagination of poets. It was on this land that the Holy Prophet (PBUH&HP) was born, in the city of Makkah, which is about fifty miles of the Red Sea.

Q. 3 Translate the following into English: (5)

جوں ہی سورج طلوع ہوا وہ غار سے باہر آ گیا۔ اس نے دیکھا کہ اردگرد کوئی نہ تھا۔ وہ فوراً ایک درخت پر چڑھ گیا۔ اسے معلوم نہیں تھا کہ اس کا پھل خوش ذائقہ تھا یا نہیں مگر وہ اتنا بھوکا تھا کہ اس نے ایک چھوٹا سا پھل توڑا اور اس کو پھیلنے لگا۔ اس کا گودا نرم اور رس دار تھا۔

USWA COLLEGE ISLAMABAD

**Class XI
Paper Chemistry**

Time Allowed: 30 Minutes

Total Marks: 30

Name: _____

Father's Name: _____

Roll No. _____

Group: _____

Note: Explain the following with reasons; how, why, etc. Attempt any TEN short questions.

Q.1 NaCl is called a formula unit and H_{2O} molecule. (3)

Q.2 Explain Avogadro's Numbers and moles with examples. (3)

Q.3 NaCl is weighed 3 g. How many moles are present in 3 g NaCl. (3)

Q.4 We have 3×10^{15} formula units of $CaCO_3$. How many moles are present in it? (3)

Q.5 The cooking time is prolonged at Murree hills. Why? (3)

Q.6 Why Nascent Hydrogen is more reactive than molecular Hydrogen? (3)

Q.7 Diamond is non-conductor of electricity, why? (3)

Q.8 How HNO₃ is prepared in the laboratory? (3)

Q.9 Why solvay process is used for? (3)

Q. 10 How many types of carbohydrates? Name them. (3)

Q. 11 What is the different of boiling point? (3)

Q. 12 What is the composition of your dress worn by you? (3)

USWA COLLEGE ISLAMABAD

Class XI Paper Physics

Time Allowed: 30 Minutes

Total Marks: 30

Name: _____

Father's Name: _____

Roll No. _____

Group: _____

Q.1 Encircle the correct option: (18 X 1=18)

- i) The momentum of a body of 5 g moving with velocity of 60 ms^{-1} is
(a) 0.3 Nm (b) 0.3 kgms^{-1} (c) 0.3 kgm^{-2} (d) 30 kgms^{-2}
- ii) A satellite revolving around the Earth in a circular orbit – if radius of orbit is increased from R to 3R what will be its velocity
(a) V^3 (b) $\frac{V}{\sqrt{2}}$ (c) $\frac{V}{\sqrt{3}}$ (d) $3v$
- iii) In terms of Wavelength the distance between two consecutive nodes is
(a) Λ (b) $\frac{\Lambda}{2}$ (c) $\frac{\Lambda}{4}$ (d) 2Λ
- iv) $1 \text{ eV} =$
(a) $1.6 \times 10^{-19} \text{ V}$ (b) $1.6 \times 10^{-19} \text{ CV}$ (c) $1.6 \times 10^{-19} \text{ C}$
(d) $9.1 \times 10^{-31} \text{ J}$
- v) If half life of Krypton how much will be left after 9.48 minutes
(a) 1000g (b) 250 (c) 500g (d) 125g
- vi) The frequency of Alternating voltage used in our daily life appliances is
(a) 15 Hz (b) 20 Hz (c) 30 Hz (d) 50 Hz
- vii) The fission of U^{238} is possible by
(a) Fast proton (b) Only slow neutrons (c) Only fast neutrons
(d) Fast as well as slow neutrons
- viii) If a wooden block of 1.5Kg is pushed on smooth surface by a force of 6N the acceleration is. ms^{-2}
(a) 5 (b) 6 (c) 4 (d) 3
- ix) Work done by a force of 500N at angle of 60° to a distance of 5m is
(a) 1000 J (b) 11000 J (c) 1250J (d) 1200J

- x) The focal length of a lens is 2m then its power will beDiopter
 (a) 2 (b) 1 (c) 0.5 (d) .025
- xi) Which of following quantities has same units as that of young's modulus
 (a) Strain (b) Elastic Limit (c) Stress
- xii) Viscosity of which will be maximum
 (a) Water at 20° C (b) Water at 90° C (c) Honey at 20° C
 (d) None of these
- xiii) When water changes into ice it
 (a) Contracts (b) Expands (c) Becomes dense
 (d) Remain same
- xiv) The pitch of sound depends upon
 (a) Frequency (b) Area of vibrating body (c) Intensity of sound
 (d) Amplitude of vibrating body
- xv) If the image is virtual then its distance from lens is taken
 (a) Positive (b) Negative (c) Double (d) Half
- xvi) The instrument which stores charge
 (a) Conductor (b) Electroscope (c) Capacitor
 (d) Capacitance
- xvii) β particles are actually
 (a) Proton (b) Neutrons (c) Electrons (d) Nucleons
- xviii) The unit of current is
 (a) Volt (b) Farad (c) Ampere

Q.2 Attempt any 4 of the following: (4 X 3=12)

- i) Define Geostationary satellites
- ii) The length of racing car is kept small why?
- iii) What is potential barrier?
- iv) Define resistance. What are factors upon which resistance of conductor depend?
- v) What are difficulties to control fusion reaction?
- vi) What is doping? Name its types.

- viii) From a point outside a line _____ is the shortest distance
 (a) Parallel (b) Perpendicular (c) Tangent (d) Secant
- ix) A circle touching the three sides of a triangle is called _____
 (a) Ascribed circle (b) Inscribed circle (c) Circumcircle (d) Median
- x) $\sin 60^\circ \cos 30^\circ - \cos 60^\circ \sin 30^\circ =$ _____
 (a) $\frac{1}{2}$ (b) $\frac{\sqrt{3}}{2}$ (c) 1 (d) 0
- xi) A tangent is a line touching a circle at
 (a) Two points (b) One point (c) Three points (d) No point
- xii) The monthly attendance of 10 students for their lunch in the hostel is recorded as 21, 15, 15, 16, 18, 14, 17, 12, 13, 11 then the mode of the data is
 (a) 21 (b) 11 (c) 15 (d) No mode
- xiii) The proper mean formula of variance is
 (a) $S^2 = \frac{(x-\bar{x})^2}{n}$ (b) $S^2 = \frac{\Sigma(x-\bar{x})^2}{n}$ (c) $S^2 = \frac{\Sigma(\bar{x}-x)^2}{n}$
 (d) $S^2 = \frac{\Sigma(x^2-\bar{x})}{n}$
- xiv) $\tan(90^\circ - \theta)^n =$ _____
 (a) $\cot \theta$ (b) $\sec \theta$ (c) $\operatorname{cosec} \theta$ (d) $\tan \theta$
- xv) $1 + \operatorname{cosec}^2 \theta =$ _____
 (a) $\cot^2 \theta$ (b) $\sin^2 \theta$ (c) $\cos^2 \theta$ (d) $\tan^2 \theta$
- xvi) The solution set of $\sqrt{x} + 3 = 2$ is
 (a) $\{-1\}$ (b) $\{+1\}$ (c) $\{\pm 1\}$ (d) $\{ \}$
- xvii) A set of all points of a plane equidistant from a fixed point is called a _____
 (a) Triangle (b) Circle (c) Square (d) Tangent
- xviii) The set with infinite number of elements is called as
 (a) Empty set (b) Finite Set (c) Infinite set (d) Sub set
- xix) The range of $\{(1,0), (2,1), (4,3)\}$ is
 (a) $\{2, 3, 4\}$ (b) $\{0,1,3\}$ (c) $\{1,2,4\}$ (d) $\{1,2,3\}$
- xx) If $x = 4 - \sqrt{17}$, then $\frac{1}{x} =$ _____

- (a) $4 + \sqrt{17}$ (b) $4 + \sqrt{17}$ (c) $-4 - \sqrt{17}$ (d) $4 - \sqrt{17}$

xxi) $\log_a \frac{m}{n} = \underline{\hspace{2cm}}$

- (a) $\log_a m - \log_a n$ (b) $\log_a m + \log_a n$ (c) $\log_a n - \log_a m$
(d) $\log_a n + \log_a m$

xxii) $2 \log x - 3 \log y$ in the form of single logarithm is

- (a) $\log x^2 + \log y^3$ (b) $\log x^2 - \log y^3$ (c) $\log x^2 y^3$ (d) $\log \frac{x^2}{y^3}$

xxiii) $\begin{bmatrix} 3 & 0 \\ 0 & 3 \end{bmatrix}$ is a _____ matrix

- (a) Zero (b) Identity (c) Rectangular (d) Scalar

xxiv) Factors of $5x^2 - 17xy - 12y^2$ are

- (a) $(x + 4y)(5x + 3y)$ (b) $(x - 4y)(5x - 3y)$ (c) $(x - 4y)(5x + 3y)$
(d) $(5x + 4y)(x + 3y)$

xxv) Which is an open sentence..?

- (a) $3 > 2$ (b) $x + 2 = 3$ (c) $-3 < -8$ (d) $3 < 7$

xxvi) Eliminating 'y' from $y = 2t$ & $y = \frac{1}{2s}$, we get

- (a) $4s = t$ (b) $4t = s$ (c) $4ts = 1$ (d) $ts = 4$

xxvii) If $x : 5 = 4 : 2$ then $x = \underline{\hspace{2cm}}$

- (a) 8 (b) 10 (c) 20 (d) 2

xxviii) The third proportional of a^2 and b is

- (a) ab (b) $\frac{a}{b}$ (c) $\frac{a^2}{b^2}$ (d) $a^2 b^2$

xxix) $\cot 30^\circ = \underline{\hspace{2cm}}$

- (a) $\frac{1}{2}$ (b) 2 (c) $\frac{1}{\sqrt{3}}$ (d) $\sqrt{3}$

xxx) Any sentence which contains two conditions is called _____

- (a) Algebraic expression (b) Quadratic equation (c) Compound sentence
(d) Open Sentence

USWA COLLEGE ISLAMABAD

Class XI Paper Biology

Time Allowed: 30 Minutes

Total Marks: 30

Name: _____

Father's Name: _____

Roll No. _____

Group: _____

Q.1 Solve any 10 questions. Be targeted in your answer according to points (10 X 3= 30) asked in questions. Don't write extra things which are not asked otherwise marks will deducted. Draw and label the diagrams where instructed to draw.

- i) It has been observed that dominant genotype is difficult to know even you know the phenotype of that genotype. What is name of process by which genotype of dominant phenotype is calculated mathematically. Prove by example by considering the Tall phenotype of pea plant as explained by Mendel. Verify your result by checker Board?
- ii) Draw and label the diagram of Nitrogen cycle by mentioning the antagonistic action of Nitrification and denitrifying bacteria? How the Nitrogen is absorbed by Family Leguminosae plant? Which type of bacteria is making adverse effects of farmers efforts?
- iii) It has been practically that to eat the producers directly energy is gained more as compared to energy gained by eating consumers. Explain this reason by considering the food chain of ecosystem?
- iv) How the single cell protein is prepared. What is apparatus in which microorganisms are used to prepare single cell protein? Why single cell protein is more useful in diet and how this protein can deal with problem of starvation in future?
- v) Draw the labeled diagram of Nephron and different the types of renal tubules in terms of its functions?
- vi) Where and when and in which living thing double fertilization takes place? How this double fertilization will form zygote and endosperm? explain with diagrams.
- vii) Explain how the bicep and triceps are antagonistic?
- viii) Differentiate between continuous and discontinuous variations with examples.
- ix) How you will explain the blood groups genetically by mentioning the genotypes of B, A and O blood group. Which gene is dominant in AB blood group? What is name of process which is used to explain the genotype of AB blood group?
- x) Explain the binary fissions in Bacteria by examples?
- xi) Differentiate between Mendel Law of Segregation and Mendel Law of Independent Assortment by examples.
- xii) Draw the labeled diagram of Human respiratory system?
- xiii) Explain the food storing structures in the seed?

اسوہ کالج اسلام آباد

انٹری ٹیسٹ ۲۰۱۳

یازدہم

کل نمبر ۲۰، وقت ۲۰ منٹ

پرچارو

سوال نمبر 1۔ درج ذیل اشعار میں سے کسی ایک شعر کی مفصل تشریح کیجیے، تاکہ کوئی پہلو تشنہ نہ رہے۔ نمبر 6

ا۔ لہر کھاتا ہے، رگِ خاشاک میں جس کا لہو

جس کے دل کی آنچ بن جاتی ہے، نیل رنگ و بو

ب۔ مُنھ سے نکل پڑی تھی، ہر اک موج کی زباں

تہ پر تھے سب نہنگ، مگر تھی لہوں پہ جاں

سوال نمبر 2۔ لفظ کی اقسام بیان کریں اور ان کا استعمال مثالوں سے واضح کریں نمبر 4

سوال نمبر 3۔ دیے گئے جملے درست کر کے لکھیں نمبر 6

ا۔ ماہ جنوری کا مہینہ بہت سرد ہوتا ہے۔

ب۔ اسجد ہتھیلی پر سرسوں اُگاتا ہے۔

ج۔ " کلیات اقبال " چھپ گئی ہے۔

سوال نمبر 4۔ درج جملوں کی وضاحت کر کے ان کی ترکیب نحوی کیجیے: نمبر 4

ا۔ لومڑی مکار ہے۔

ب۔ امجد کتاب پڑھ رہا ہے۔

USWA COLLEGE ISLAMABAD

Class XI

Paper Computer

Time Allowed: 30 Minutes

Total Marks: 30

Name: _____

Father's Name: _____

Roll No. _____

Group: _____

Section A

Q.1 Encircle one choice A, B, C or D in each case.

Marks = 12

1. Binary coded decimal (BCD) expresses each decimal digit as:-

- a) binary digit b) byte c) nibble d) word

2. The number 1000 comes immediately after:-

- a) 900 b) FFF c) 887 d) 499

3. The number of possible combinations in a 7-bit code are.

- a) 49 b) 64 c) 128 d) 256

4. Which of the following is a 16 bit code:-

- a) BCD b) Unicode c) ASCII d) EBCDIC

5. In floating point representation, mantises is kept less than:-

- a) 2 b) 1 c) 4 d) 3

6. First generation languages use:-

- a) Pseudo code b) Binary code c) Mnemonic code d) Decimal code

7. In which of the flowchart symbols, the statement "Is A > B" is placed?

- a) Connector b) Rectangular c) parallelogram d) Diamond

8. Which of the following is not a part of planning stage?

- a) Developing algorithm b) Flowcharting c) Coding the program d) Writing Pseudo code

9. Which of the following command is used to exit from BASIC.

- a) Clear b) Kill c) System d) New

10. In Boolean algebra $1 + 1 + 1$ is equal to:-

- a) 0 b) 3 c) 2 d) 1

11. Which of the following is not logical operator?

- a) AND b) OR c) XOR d) NOT

12. Which of the following statements can be used for counter loop?

- a) GOTO b) FOR NEXT c) IF THEN d) WHILE WEND

PTO

Section B

Marks = 18

Q.2 Write any 6 short questions of the following all questions carry equal marks.

1. Describe ASCII code and EBCDIC code.
2. What is Flowchart. What are its advantages?
3. What is difference between STOP and END statement. Give suitable example?
4. What is debugging? Why it is necessary to test or debug a program.
5. Define the terms Direct Mode and Program Mode used in BASIC programming.
6. What are conditional control loops? Give an example
7. Define One Dimensional Array with proper syntax.
8. what is the purpose of int Function in BASIC language.
9. What are sub-routine programs?