

Name ----- Roll No. ----- Sign. of Invigilator-----

New Standard Public School, Raebareli

First Unit Test-2017-18

Subject - Computer

Class- X

Time: 1 Hr.

M. M.:- 20

Note:- Attempt All the questions.

Q.1- Answer any nine parts. Part (e) is compulsory.

(Each 1 Mark)

- (A) What is Information?
- (B) What is Receiver?
- (C) Write two examples of written communication.
- (D) What is Infra Red Light?
- (E) What is downloading and uploading?
- (F) What is Telnet?
- (G) Write the full form of FDDI.
- (H) What is Network?
- (I) What is Synchronous Transmission?
- (J) What is Gateway?

Q.2- Answer any three parts-

(Each 2.5 Marks)

- (A) Describe Digital Transmission.
- (B) What is Star Topology?
- (C) Describe the Transmission Characteristic of Twisted Pair Cable.
- (D) Describe WWW and Search Engine.

Q.3- Answer any one part-

(Each 3.5 Marks)

- (A) Describe the function of Protocol.
- (B) What is Modem? Explain it.

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New Standard Public School, Raebareli

First Unit Test-2017-18

Subject - Technical Drawing

Class- X

Time: 1 Hr.

M. M.:- 20

Note:- Attempt all the questions.

Q.1- Draw an arc and take point 'P' on it. Construct a tangent to a given arc at point P. (5)

Q.2- Draw a circle of radius 3cm. Take a point P at distance of 8 cm from the centre of the circle. From point P construct a tangent to the given circle. (7)

Q.3- Draw two circles of radii 2cm and 3cm with their centres 5cm apart. Construct the pair of direct common tangents to the given circles. (8)

OR

Draw two circles of radii 2cm and 3cm with their centre 5cm apart. Construct an indirect common tangent to the given circles.

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New Standard Public School, Raebareli

First Unit Test- 2017-18

Subject - Social Science

Class- X

Time: 1 Hr.

M. M.:- 20

Note:- Attempt All the questions.

(Very Short Answer Type Questions)

Q.1- Attempt any nine questions. (Each 1 Mark)

- (a) Who was the writer of 'Divine Comedy'?
- (b) What is the meaning of Renaissance?
- (c) Who was the founder of the Protestant Sect?
- (d) Who invented steam engine?
- (e) When did the Glorious Revolution in England take place?
- (f) On which day, America celebrates its independence day?
- (g) Who was the king when the revolution in France began?
- (h) Who was the author of 'The Prince'?
- (i) Who was the last Czar of Russia?
- (j) Who said that, the 'Earth moves round the sun'?

(Short Answer Type Questions)

Q.2- Attempt any three questions. Q. (d) is compulsory.

(Each 2.5 Marks)

- (a) Write the main features of Renaissance.
- (b) Write short note on 'Boston Tea Party.'
- (c) Write short note on 'Bloody Sunday.'
- (d) Why is the 14th July celebrated as a national holiday in France?

(Long Answer Type Questions)

Q.3- Attempt any one questions. (Each 3.5 Marks)

- (a) What is the meaning of Industrial Revolution? Why did it begin first in England?
- (b) Discuss the main consequences of the Religious Reformation Movement.

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New Standard Public School, Raebareli

First Unit Test-2017-18

Subject - Science

Class- X

Time: 1 Hr.

M. M.:- 20

(Physics) 07

Note:- Attempt all the questions. Q. 2 (c) is compulsory.

Q.1- Answer any three parts. (Each 1 Mark)

- (a) What do you mean by principal axis?
- (b) What is the relation between u , v and f for the spherical mirror?
- (c) What is total internal reflection.
- (d) Radius of curvature of concave mirror is 20 cm. Find its focal length.

Q.2- Answer any two parts. (Each 2 Marks)

- (a) Write the laws of refraction.
- (b) Refractive index of glass with respect to air is $\frac{3}{2}$. Find the critical angle of glass air. ($\sin 42^\circ = 0.67$)
- (c) When does Snell's Law Fail?

Part - B (Chemistry)

Q.1- Attempt any four parts. Part (d) is compulsory- (Each 1 mark)

- (a) Define pH. How is it related with hydrogen ion concentration?
- (b) Define neutralization reaction with an example.
- (c) Give name and formula of one double salt.
- (d) Write the conjugate base of HCl and H₂O.
- (e) Define ionic product of water.

Q.2- Attempt any one part:- (Each 2 marks)

- (a) What is Bronsted- Lowery concept of acid and base? Explain with an example.
- (b) What is acid-base indicator? Explain it according to ostwald theory.

(Biology) 07

Note:- Attempt all the questions:

Q.1- Answer any three parts. Parts (d) is compulsory. (Each 1 Mark)

- (a) Which digestive enzyme is found in saliva?
- (b) Write the dental formula of man.
- (c) What are villi?
- (d) If peristaltic movements of alimentary canal of man stop, what will its effect on digestion?

Q.2- Answer any two parts. (Each 2 Marks)

- (a) Write the functions of skin.
- (b) Write the name of two fat soluble vitamins and write also the name of deficiency diseases caused by it.
- (c) Write the functions of liver.

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New Standard Public School, Raebareli

First Unit Test-2017-18

Subject - Maths

Class- X

Time: 1 Hr.

M. M.:- 20

Note:- Attempt All the questions.

Q.1- Attempt any nine parts in which part (j) is compulsory.

(Each 1 Mark)

- (a) Simplify: $\frac{x^3-8}{x^2-4}$
- (b) Find the additive inverse of $x + \frac{1}{x}$
- (c) Find multiplicative inverse of the expression $\frac{x-2}{x+1}$
- (d) What should be added to $\frac{x^2+x-1}{x^2-1}$ to get 1?
- (e) Find the product of $\frac{x^2-25}{x+2}$ and $\frac{x^2-4}{x+5}$
- (f) Find the H.C.F. of (x^2+5x+6) and (x^2+x-6) .
- (g) Find G.C.D. of $(9-x^2)$ and (x^2+4x+3) .
- (h) Find the L.C.M. of $12x^5y$ and $6x^2y^2$.
- (i) Find the L.C.M. of x^3+27 and $2x^2+5x-3$.
- (j) Write a rational expression whose numerator is a linear polynomial and denominator is a quadratic polynomial.

Q.2-Attempt any 3 parts.

(Each 2.5 Marks)

- (a) If $A = \frac{x+1}{x-1}$, then find value of $A - \frac{1}{A}$
- (b) Simplify: $\frac{x}{x+y} + \frac{y}{x-y} + \frac{2xy}{x^2-y^2}$
- (c) The H.C.F. and L.C.M. of two expressions A and B are H and L respectively. If $A+B=H+L$ then, prove that $A^3+B^3=H^3+L^3$.
- (d) A fruit seller has (x^2-x-20) mangoes and $(x^2-9x+20)$ oranges. He has to parcel fruits in different boxes having equal number of fruits in each box. Find the minimum number of boxes required.

Q.3-Attempt any one part.

(Each 3.5 Marks)

- (a) Simplify: $\frac{1}{x-1} - \frac{1}{x+1} - \frac{2}{x^2-1} - \frac{4}{x^4-1}$
- (b) If $(x-1)$ is G.C.D. of x^2-1 and $ax^3-b(x+1)$, then find the relation between a and b.