

BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT-I [2020-2021]
ENGLISH
Class – XI

FULL MARKS:20

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A. Read the extract given below and answer the questions that follow. **[1x3=3]**

1. All three stood still to smile through their hair
At the uncle with the camera. A sweet face,
My mother's, that was before I was born.
And the sea, which appears to have changed less,
Washed their terribly transient feet.

- a. Whom does 'all three' refer to?
- b. Explain – 'smile through their hair'
- c. What is the contrast between the sea and the feet?

B. Answer the following questions in 30-40 words each. **[2x4=8]**

2. Give two examples of alliteration from the poem 'A Photograph'.
3. What is the meaning of the line 'Both wry with the laboured ease of loss'?
4. Describe the narrator's grandfather as he looked in his portrait.
5. How did the grandmother prepare the narrator for going to school?

C. GRAMMAR **[3]**

6. **In the passage given below, one word has been omitted in each line. Write the missing word along with the word that comes before and the word that comes after it.**

- (a) If you wish do well in
- (b) life attain happiness, you need to
- (c) look at life a positive attitude.

D. Answer the following question in 80-100 words. **[3]**

7. How do you know that the author's grandmother was a religious lady?

E. Writing Skill

[3]

8. The Environment Club of your school has organised a Tree Planting Drive in your school. As President of the Club, write a notice in not more than 50 words informing the students about the same and inviting them to join it. You are Sumit / Sumita of Oasis Public School, Indore.

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BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT-I [2021-2022]
MATHEMATICS
CLASS – XI

Maximum Marks:20

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10X2 = 20

1. Express the following angle in radian: 225°
 2. Express the following angle in degree: $-\left(\frac{18\pi}{5}\right)^c$
 3. Find the length of an arc of a circle of radius 14cm which subtends an angle of 36° at the center.
 4. Find the value of $\sin\left(\frac{31\pi}{3}\right)$
 5. Find the value of $\cos\left(\frac{7\pi}{6} - 2220\right)^\circ$
 6. Calculate the value of $\tan 75^\circ$
 7. Prove that $\cos 75^\circ \cos 15^\circ + \sin 75^\circ \sin 15^\circ = \frac{1}{2}$
 8. Find the value of i^{24}
 9. Simplify: $(-2i)\left(\frac{1}{6}i\right)$
 10. Prove that $1 + i^2 + i^4 + i^6 = 0$
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BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT – 1[2021-2022]
APPLIED MATHEMATICS
CLASS – XI

Maximum Marks:20

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10X2=20

1. Write the following sets in roster form:
 - (i)The set of all digits in our number system
 - (ii)The set of odd integers lying between -4 and 8
2. Write the following set in the set builder form: $\{1,4,9,16,25,\dots\}$
3. Find the cardinal number of the set $A=\{0\}$
4. Write down all the subsets of $\{a,b\}$
5. Write the following set as interval: $\{x: x \in \mathbf{R}, 2 \leq x < 7\}$
6. If A and B are two sets such that $A \subset B$, then $A \cup B=?$ and $A \cdot B=?$
7. If A and B are two sets such that $n(A)=17$, $n(B)= 23$ and $n(A \cup B)=38$, find $n(A \cdot B)$.
8. Find a and b if $(a + 1, b - 2) = (3,1)$
9. If A and B are two sets such that $n(A)=2$ and $n(B)=3$ find the number of relations from A to B
10. If the relation R on the set $A =\{1,2,3\}$ is defined by $R=\{(1,1),(2,2),(3,3),(2,1),(3,2)\}$, then determine whether the relation R is symmetric and transitive.

BURNPUR RIVERSIDE SCHOOL, BURNPUR
ASSIGNMENT - I (2021 – 2022)
SUBJECT: PHYSICS
CLASS : XI

Maximum Marks :20

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1. Write the dimension of a/b in the relation $P = (a - t^2) / bx$ where P is pressure, x is distance and t is time. 1
 2. If frequency F , velocity V and density D are considered as fundamental units then write the dimensional formula for momentum. 1
 3. In Ohm's law experiment, the potential drop across a resistor was measured as $V = 5.0V$ and current was measured as $I = 2.00A$. Find the maximum possible error in resistance. 2
 4. You are given a rod of length L . The linear mass density is $\rho = a + bx$. Here a and b are constants and mass of the rod increases as x decreases. Find the mass of the rod. 2
 5. A ball is dropped from some height. After rebounding from the floor, it ascends to the same height. Draw the velocity-time graph and speed-time graph. 2
 6. The period of oscillation of a simple pendulum is $T = 2\pi(L/g)^{1/2}$. Measured value of L is 20.0 cm known to 1 mm accuracy and time for 100 oscillations of the pendulum is found to be 90 s using a wrist watch of 1 s resolution. What is the accuracy in the determination of g ? 2
 7. At the height of 75 m a particle A is thrown up with $u_A = 10$ m/s and particle B is thrown down with $u_B = 10$ m/s and particle C is released with $u_C = 0$ m/s. Draw velocity – time graph for each particle. 3
 8. If two resistors of resistances $R_1 = (4 \pm 0.5)\Omega$ and $R_2 = (16 \pm 0.5)\Omega$ are connected (i) in series and (ii) in parallel; find the equivalent resistance in each case with limits of

percentage error.

3

9. An object has uniformly accelerated motion. The object always slows down before the time, when its velocity becomes zero. Prove this statement graphically, when

- (a) Both u and a are positive
- (b) $u = -ve$ and $a = +ve$
- (c) $u = +ve$ and $a = -ve$
- (d) both u and a are negative

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BURNPUR RIVERSIDE SCHOOL

ASSIGNMENT-I [2020-2021]

CHEMISTRY

Class – XI

Maximum Marks:20

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1. What is the mass of carbon dioxide which contains the same number of molecules as are contained in 40 g of oxygen?(At mass of C=12u, O=16u)
2. What is the concentration of sugar (C₁₂H₂₂O₁₁) in mol L⁻¹ if its 20 g are dissolved in enough water to make final volume up to 2 L?(At mass of C=12u, H=1u, O=16u)
3. Calcium carbonate reacts with aqueous HCl to give CaCl₂ and CO₂ according to the reaction,
$$\text{CaCO}_3(\text{s}) + 2\text{HCl}(\text{aq}) \rightarrow \text{CaCl}_2(\text{aq}) + \text{CO}_2(\text{g}) + \text{H}_2\text{O}(\text{l})$$

What mass of CaCO₃ is required to react completely with 25 ml of 0.75MHCl?
4. Chlorine is prepared in the laboratory by treating manganese dioxide (MnO₂) with aqueous hydrochloric acid according to the reaction
$$\text{MnO}_2(\text{s}) + 4\text{HCl} \rightarrow \text{MnCl}_2(\text{aq}) + 2 \text{H}_2\text{O}(\text{l}) + \text{Cl}_2(\text{g})$$

How many grams of HCl react with 5.0 g of manganese dioxide?
- 5 (a) What is limiting reagent
(b) Calculate the amount of CO₂ that would be produced when:
(i) 1 mole of carbon is burnt in 16 g of dioxygen.
(ii) 2 moles of carbon are burnt in 16 g of dioxygen.
6. Calculate the energy of one mole of photons of radiation whose frequency is 5 x 10¹⁴ Hz.

7. What is the number of photons of light with a wavelength of 4000pm that provide 1j of energy?
8. How many electrons in an atom may have the following quantum numbers?
(a) $n=4, m_s=-1/2$ (b) $n=3, l=0$
9. Calculate the wavelength of an electron moving with a velocity of $2.07 \times 10^7 \text{ ms}^{-1}$.
10. Show that the frequency (γ) of moving small particle is related to its KE as $\gamma = 2\text{KE}/h$

Please note: Students must copy all the questions. They must write down the worksheet in a separate copy subject wise

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BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT-1 (2021-2022)
SUB: BIOLOGY (044)
CLASS: XI

Maximum Marks: 20

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|-----|---|---|
| 1. | What is ICBN? | 1 |
| 2. | Define metabolism. | 1 |
| 3. | Are chemosynthetic bacteria autotrophic or heterotrophic? Justify. | 1 |
| 4. | In the five kingdom classification of Whittaker, how many kingdoms are eukaryotes? Name them. | 1 |
| 5. | What is diatomaceous earth? | 1 |
| 6. | How are botanical gardens useful in conserving biodiversity? | 2 |
| 7. | Write four features of mycoplasma. | 2 |
| 8. | List out the universal rules of nomenclature. | 3 |
| 9. | Differentiate between viruses and virioids. | 3 |
| 10. | Discuss how classification systems have undergone several changes over a period of time. | 5 |
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BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT-I [2020-2021]
COMPUTER SCIENCE
Class – XI

FULL MARKS:20

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All questions are compulsory:

10x2=20

1. What is the difference between System Software and Application Software?
2. What is the difference between an Interpreter and Compiler?
3. Name the input or output device used to do the following:
 - a. To enter textual data.
 - b. To output audio.
 - c. To make hardcopy of a text file.
 - d. To display the data or Information.
4. Define Software Library.
5. Name any four Utility Software.
6. What do you mean by ASCII code and ISCII code?
7. Convert the following Decimal Number to Octal Number System.
 - a. $(500)_{10}$
 - b. $(1245)_{10}$
8. Convert the following Hexadecimal Number to Decimal Number System.
 - a. $(4AB5)_{16}$
 - b. $(945F)_{16}$
9. Convert the following Binary number to Hexadecimal Number System.
 - a. $(11011101111)_2$
 - b. $(10101011101)_2$
10. Add the following binary numbers:
 - a. 10110111 and 1100101
 - b. 110101 and 101111

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BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT-I: [2020-2021]
INFORMATION TECHNOLOGY
Class – XI

FULL MARKS:20

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All questions are compulsory:

10x2=20

1. What do you mean by Communication?
2. What are the different types of Communication?
3. State two advantages and two disadvantages of Verbal Communication.
4. Give any four factors affecting the perspective in communication.
5. What do you mean by Punctuation?
6. What is Phonetics?
7. What do you mean by Assertive Style and Passive Aggressive Style?
8. Give some advantages of Assertive Communication?
9. Name the 7C's of Effective Communication.
10. Name the different types by which we can greet a person.

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BURNPUR RIVERSIDE SCHOOL, BURNPUR

ASSIGNMENT -I [2021-22]

ACCOUNTANCY

Class – XI

Maximum Marks:20

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- 1 Which of the following transactions is not of financial character? 1
(a) Purchase of assets on credit (b) Strike by employees (c) Purchase of asset for cash (d) Withdrawing of money by proprietor from business
- 2 According to which of the following, a business is considered to run for indefinite period. 1
(a) Business Entity Concept (b) Money Measurement Concept (c) Historical Cost Concept (d) Going Concern Concept
- 3 External users of accounting information are not 1
(a) Lender (b) Government (c) Public (d) Officers
- 4 A person who owes money to the firm is called 1
(a) Supplier (b) Debtor (c) Creditor (d) All of these
- 5 Which of the following is an advantage of accounting? 1
(a) Detection of errors (b) Based on Historical costs (c) Incomplete Information (d) Omission of Qualitative information
- 6 Which of the following is capital expenditure 1
(a) Repair expenses of building (b) Advertisement expenses (c) Wages (d) Wages paid for building construction
- 7 In accounts recording is made of 1
(a) Only financial transactions (b) Only non-financial transactions (c) financial and non-financial transactions (d) Personal transactions of the proprietor
- 8 Define the following terms with example. 3
(a) Creditor (b) Asset (c) Capital Expenditure
- 9 Explain any four objectives of accounting. 4
- 10 Show the Accounting Equation on the basis of following transactions. 6
(a) Mukesh started business with cash Rs.80,000
(b) Purchased goods for cash Rs.28,000 and on credit Rs.20,000
(c) Purchased furniture for cash Rs.6,000
(d) Paid rent Rs.2,000
(e) Received commission Rs.500
(f) Withdrew cash for private use Rs.3000
(g) Sold goods on credit (cost price Rs.30,000) for Rs.40,000
(h) Paid to creditor Rs.15,000

BURNPUR RIVERSIDE SCHOOL

ASSIGNMENT -I[2021-22]

BUSINESS STUDIES

Class – XI

Maximum Marks:20

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- 1 Which clause of Memorandum of Association defines powers and limitations of a company? 1
(a) Domicile clause (b) Objective clause (c) Liability clause (d) Name clause
- 2 If a person want complete confidentiality in his business and want no interference of any other person then the suitable form of business is 1
(a) Joint Hindu Family (b) Sole proprietorship (c) Partnership (d) Co-operative society.
- 3 Modern concept of business insist on 1
(a) Profit with service (b) Bearing risk (c) Earning huge profit (d) Providing services
- 4 Who becomes 'Karta' in Joint Hindu Family business? 1
(a) By voting of members (b) Most educated member of the family (c) Senior most male member (d) Any member can become
- 5 Name the type of manufacturing industry in which basic raw material is broken into different parts to produce finish goods 1
(a) Synthetic (b) Processing (c) Analytical (d) Assembly.
- 6 The partnership firm formed to complete a single venture is called 1
(a) Fixed period Partnership (b) Partnership at will (c) Limited partnership (d) Particular Partnership
- 7 Reward for profession is called 1
(a) Profit (b) Salary (c) Fees (d) All of the above
- 8 Differentiate between different types of economic activity on the basis of 3
(a) Nature of work, (b) Capital investment and (c) Code of conduct
- 9 Explain any four features of business activity. 4
- 10 Mrs. Roy started a voluntary association of 10 peoples, who are also consumers. She collected the capital by selling shares to members and opened a retail shop so that they can eliminate middlemen and get the goods at low price. 6
(a) State the type of organisation mentioned in the above case.
(b) Explain five limitations of that organisation.
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BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT-I [2020-2021]
ECONOMICS
Class – XI

FULL MARKS:20

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| 1 | Choose the correct alternative:
Statistics is the study of ----- facts | 1 |
| | a. Quantitative | |
| | b. Qualitative | |
| | c. Both a and b | |
| | d. Aggregate | |
| 2 | Statistics in singular sense is: | 1 |
| | a. Collection of data | |
| | b. Organisation of data | |
| | c. Presentation of data | |
| | d. All of the above | |
| 3 | Census and ----- techniques are used in collection of data | 1 |
| 4 | Statistics are ----- expressed. | 1 |
| 5 | Distinguish between primary data and secondary data | 3 |
| 6 | What are the merits of personal interviews? | 3 |
| 7 | Give any 4 features of a good questionnaire. | 4 |
| 8 | What do you know about NSSO and its functions? | 6 |

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BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT-I(2021-2022)
GEOGRAPHY
CLASS-XI

Maximum Marks: 20

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|----|--|---|
| 1 | What was the nature of the earth surface initially? | 2 |
| 2 | Differentiate between terrestrial and jovian planets. | 2 |
| 3 | Why geography is considered as an integrating discipline? | 2 |
| 4 | What are the subbranches of physical geography? | 2 |
| 5 | What are the different indirect sources of information of the interior of the earth? | 2 |
| 6 | What do you mean by batholiths? | 2 |
| 7 | Define the term “mineral” and name the major classes of minerals. | 2 |
| 8 | What are sedimentary rocks? How are they formed? | 2 |
| 9 | How is the latitudinal spread of India advantageous to her? | 2 |
| 10 | Why 82 | |

BURNPUR RIVERSIDE SCHOOL
SUBJECT: PHYSICAL EDUCATION
ASSIGNMENT -I(2020 -21)
Class – XI

MAXIMUM MARKS:20

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|-----|--|---|
| 1. | Which of the following is a traditional game of India?
a. Hockey b. Badminton
c. Kabaddi d. Table tennis | 1 |
| 2. | Which of the following career options is associated with physical education?
a. Sports Marketing b. Sports Administration
c. Professional Sportsperson d, All of these | 1 |
| 3. | The Founder Secretary general of IOA was.....
a. Sir Dorabji Tata b. Pierre de Coubertin
b. Dr. A.G Noehren c. DemetriosVikelas | 1 |
| 4. | In which year was the Indian Olympic Association created?
a.1927 b. 1947 c. 1952 d. 1964 | 1 |
| 5. | In which country were the first Summer Olympic held?
a. France b. USA c. Greece d. Great Britain | 1 |
| 6. | What are the objectives of Physical Education? | 2 |
| 7. | What do you understand by Paralypics? | 2 |
| 8. | What is the khelo –India Programme? | 3 |
| 9. | Write a note on Indian Olympic Association. | 3 |
| 10. | Write about the changing trends of physical education in India after Independence. | 5 |
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