BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT – I (2021 – 2022)
ACCOUNTANCY
Class – XII

Maximum Marks: 20

1	Name the account which shows the classified summary of transactions of a Cash Book in a not-for-profit organization. (a) Receipts and Payments A/c (b) Income and Expenditure A/c (c) Balance Sheet (d) none of these	1
2	In the absence of partnership deed, the allowable rate of interest on partner's loan account will be (a) 6% Simple Interest (b) 6% pa Simple Interest (c) 12% Simple Interest (d) 12% Compounded annually.	1
3	In which account the excess of income over expenditure is added in case of a not-for-profit organization. (a) Receipts and Payments A/c (b) Income and Expenditure A/c (c) Balance Sheet (d) Capital Fund	1
4	Salary paid by Royal Club for the year ended 31.03.2020 amounted Rs 2,50,000. How much amount will be recorded in the Income and Expenditure A/c in the following case: 01.04.2018 (Rs.) 31.03.2019 (Rs.) Outstanding Salary 5,000 4,000 Prepaid Salary 7,000 10,000 (a) Rs. 2,52,000 (b) Rs. 2,48,000 (c) Rs. 2,46,000 (d) none of these	1
5	If the Partners' Capital A/c are fixed 'salary payable to partners' will be recorded: (a) On the debit side of Partners' Current A/c (b) On the debit side of Partners' Capital A/c (c) On the credit side of Partners' Current A/c (d) none of these	1
6	How much amount will be shown in Income and Expenditure A/c in the following case: Rs. Stock of Stationery on 01.04.2020 4,000 Stock of Stationery on 31.03.2021 14,000 Creditors for Stationery on 01.04.2020 6,000 Creditors for Stationery on 31.03.2021 8,000 Amount paid for stationery purchased during 2020-21 1,30,000 (a) Rs.1,42,000 (b) Rs.1,22,000 (c) Rs. 1,18,000 (d) none of these	1
7	R and S are partners in the ratio of 2:3. Before profit distribution, R is entitled to 5% commission of the net profit (after charging such commission). Before charging such commission, firm's profit was Rs.84,000. S's share of profit will be: (a) Rs.48,000 (b) Rs.47,880 (c) Rs.47,500 (d) none of these	1
8	Darjeeling Sports Club had received in 2020-21 Rs.70,000 as subscription. Show Subscription A/c for calculating what amount will be credited to Income and Expenditure A/c for the year ending 31.03.2021 from the following information. (a) Subscription received in advance on 1.4.2020 Rs. 2,500 (b) Subscription due but not received on 1.4.2020 Rs. 5,000 (c) Subscription due but not received on 31.3.2021 Rs. 4,000 (d) Subscription received in advance on 31.3.2021 Rs. 7,000	3
9	A and B entered into partnership on 1.4.2020, contributing Rs.5,00,000 and Rs.2,00,000 respectively. B also introduced Rs.1,00,000 as additional capital on 1.7.2020. They agreed to	4

share profits and losses in the ratio 3:2. Following information is provided regarding the partnership: (a) A and B each are allowed a salary of Rs.5,000 per quarter. (b) Interest is to be allowed on capitals @8% pa and charged on drawings at 10%pa.
Drawings of A and B during the year were Rs.12,000 and Rs.10,000 respectively. Profit as at 31.03.2021 before the above mentioned adjustments was Rs. 1,96,000.

Pass necessary journal entries relating to appropriation of profits.

| 10 | Following is the Receipts and Payments A/c of Mahi Club, Asansol for the year ending 31.03.2021. | 6 |

Receipts		Payments	
To Balance b/d	2,300	By Match Expenses	6,800
To Subscriptions	56,400	By Rent	9,600
To Interest	300	By Salaries	24,000
To Donations	6,000	By Sundry Expenses	3,600
To Donations for Building Fund	50,000	By Investment Purchased	30,000
To Match Fund	10,000	By Newspapers	750
To Miscellaneous Receipts	430	By Sports Equipment	32,000
To Sale of Grass	100	By Balance c/d	18,780
	1,25,530		1,25,530

Subscription outstanding on 1.4.2020 were Rs. 4,000 and on 31.03.2021 were Rs.6,000. Salaries outstanding on 1.4.2020 and on 31.03.2021 were Rs.2,000 and Rs. 2,500 respectively. On 1.4.2020 the club had investments worth Rs.12,000; furniture Rs.10,000 and sports equipment valued Rs.20,000.
Prepare Income and Expenditure A/c for the year ended 31.03.2021and a Balance Sheet as at that date after depreciating furniture by 20% and Sports equipment by 25%.

Maximum Marks – 20

1. Higher organisms have resorted sexual reproduction in spite of its complexity. Why?
(1)

2. Why is apple called a false fruit? Which part(s) of the flower forms the fruit?
(1)

3. Mention the function of sperm tail and acrosome.
(1)

4. Why is sex education necessary in schools ?
(1)

5. Differentiate between homozygous and heterozygous.
(1)

6. What is vegetative propagation ? Give two examples .
(2)

7. What is triple fusion? Where and how does it take place?
(2)

8. Write two major functions each of testis and ovary .
(2)

9. What are the measures one has to take to prevent from STDs ?
(2)

10. How is sex determined in human beings ?
(2)

11. Briefly mention the contribution of T.H. Morgan in genetics .
(5)

BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT – I (2021 – 2022)
BUSINESS STUDIES
CLASS: XII

Maximum Marks: 20

1   S. Ltd.'s target production is 1,00,000 units in a year at Rs.100 per unit. To achieve this target   1
Mr X, the manager has to operate on double shifts due to power failure most of the time. X is
able to produce 1,00,000 units but at Rs.110 per unit. How will you describe the role of Mr. X?
(a) Effective (b) Efficient (c) Efficient but not effective (d) Effective but not efficient.

2   Which of the following is not a function of management?   1
   (a) Staffing   (b) Controlling (c) Cooperating (d) Planning

3   Harmony, not discord principle is concerned with _____   1
(a) Investigation of task (b) Scientific enquiry (c) Observation and analysis (d) Management
should share the gains of company with workers

4   "In an organization employees are happy and satisfied, there is no chaos and effect of   1
management is noticeable". Which characteristics of management is highlighted by this
statement?
(a) Management is intangible (b) Management is pervasive (c) Management is continuous (d)
Management is dynamic

5   S, the General Manager of D Equipment, performs the managerial functions of planning,   1
organizing, staffing, directing and controlling as an ongoing process. Which characteristics of
management is highlighted here?
(a) Group activity (b) Dynamic Function (c) Continuous process (d) Multidimensional

6   Unity of Direction is concerned with   1
(a) One head different plans (b) One head and one plan (c) Planning by employees (d)
Planning by production manager.

7   It is a force that binds all the functions of management.   1
(a) Planning (b) Co-operation (c) Co-ordination (d) Management hierarchy

8   Father of Mr. Jain acts as Vice-President in L. Ltd. Name the level of management, he is   3
working. Mention any two functions of performed by him.

9   Explain any four characteristics of co-ordination.   4

10 Explain any six points which highlight the importance of principles of management.   6

BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT-1 : (2021-22)
CHEMISTRY
CLASS- XII

Maximum Marks: 20

1.		**In this question a statement of assertion followed by a statement of reason is given. Choose the correct answer out of the following choices.** A) Both assertion and reason are correct statements and reason is the correct explanation of the assertion. B) Both assertion and reason are correct statements but reason is not the correct explanation of the assertion. C) Assertion is correct but reason is wrong. D) Assertion is wrong but reason is correct. **Assertion:** No compound has both schottky and frenkel defects. **Reason:** Both defects change the density of the solid.	1
2.		What type of stoichiometric defect is shown by ZnS?	1
3.		What is meant by the term 'Pseudo solid'? **OR** What is meant by semiconductor?	1
4.		What type of substances would make better permanent magnets: ferro or ferrimagnetic substances?	1
5.		What is forbidden zone?	1
6.		Copper crystallizes with fcc unit cell. If the radius of the copper atom is 127.8pm, calculate the density of copper metal. (Atomic mass of Cu- 63.5u and Avogadro's number, $N_A = 6.02 \times 10^{23}$ mol^{-1})	3
7.		The metal crystallizes in fcc unit cell with edge length 500 nm. Calculate the density of the metal, if it contains 5% Frenkel defect and 25% schottky defect At. Mass of Ca-40 g/mol.	3
8.		A sample of ferrous oxide has actual formula $Fe_{0.93}O_{1.00}$. In this sample what fraction of metal ions are Fe^{2+} ions? What type of nonstoichiometric defect is present in this sample?	3
9.		X- ray diffraction shows that unique length of NaCl is 0.5627nm. The density of NaCl is 2.164 g/cc. What type of defect exists in the crystal? Calculate the percentage of Na^+ and Cl^- ions missing.	3
10.		An element crystallizes in a structure having fcc unit cell of an edge 300pm. Calculate its density if 180g of this element contains 3.708×10^{24} atoms.	3

BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT -1 (2021-2022)
COMPUTER SCIENCE
CLASS: XII

Maximum Marks: 20

1. Define the following-   2
    (a) Tokens
    (b) Keyword

2. Find the output-   2
    (a) math.fabs(1.0)
    (b) math.floor(1.03)

3. Differentiate between – break and continue   2

4. Write the type of tokens from the following-   2
    (a) if
    (b) roll_no

5. Write True or False-   2
    (a) Dictionaries are mutable.
    (b) Lists are mutable sequences of Python.

6. Write short notes on the following string manipulation methods–   2
    (a) <str>.capitalize()
    (b) <str>.isalnum()

7. Can tuples be nested?   2

8. Write a program to check whether a number is Positive, Negative or Zero?   2

9. Write a program to check whether a number is odd or even?   2

10 Write a program to print the following series-   2
    1, 8, 27 …….. upto n term.

BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT -1 (2021-2022)
ECONOMICS
CLASS: XII

Maximum Marks: 20

Choose the correct option :

1	The Indian economy on the eve of independence was : (a) developed (b) Under-developed (c) Stagnant (d) both (b) and (c)	1
2	Land holdings at the time of independence were: (a) Fragmented (b) large (c) small (d) both (a) and (c)	1
3	In which year was India's first five-year plan launched? (a) 1951 (b) 1947 (c) 1940 (d) 1955	1
4	Which was the last five-year plan in India? (a) 11th (b) 12th (c) 13th (d) 14th	1
5	Explain the term modernization in Indian planning.	3
6	What do you know about drain of wealth during British rule in India?	3
7	What do you know about occupational structure during British period?	4
8	Explain any two long term goals of Indian planning.	3+3

Maximum Marks: 20

A. **Read the extract given below and answer the questions that follow.** **[1x2=2]**

1. *For once on the face of the Earth*

let's not speak in any language,

let's stop for one second,

and not move our arms so much

    a. Which two activities does the poet want us to stop?

    b. What does the poet mean by 'let's not speak in any language'?

B. **Answer any 4 of the following questions in 30-40 words each.** **[2x4=08]**

2. Why did Franz not want to go to school that day?

3. Why has the mother been compared to the 'late winter's moon'?

4. Why can't the bangle makers of Firozabad organize themselves into a co-operative?

5. What did the psychiatrist think about Charley's stamp collection? Why did Charley not agree with him?

C. **Answer the following question in 120-150 words.** **[5]**

6. What changes did the order from Berlin cause in the school that day?

D. **Writing Skill** **[3]**

7. Design a poster creating awareness about cyber safety.

BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT – I (2021 – 2022)
GEOGRAPHY
CLASS: XII

Maximum Marks: 35

	Answer the following questions	**Marks**
1.	Who introduced the concept of stop and go determinism?	**1**
2.	Enlist the three components of migration.	**1**
3.	What do mean by growth of population?	**1**
	OR	
	A main worker is a person who works for atleast _____ days (or six months) in a year.	
4.	Explain the term environmental determinism.	**3**
5.	Distinguish between pull and push factor.	**3**
6.	Explain the Demographic Transition theory.	**3**
7.	How do adolescents contribute to the population growth in India?	**3**
8.	What is "Naturalisation of humans"? Explain with examples.	**5**
9.	Give an account of the factors which influence the distribution of population.	**5**
10.	Explain the consequences of migration.	**5**
11.	Give an account of the occupational structure of India's population.	**5**

BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT-I: (2021 – 2022)
MATHEMATICS
CLASS: XII

Maximum Marks: 20

1. Find the value of (x+y) from the following equation   1

   $2\begin{bmatrix} 1 & 3 \\ 0 & x \end{bmatrix} + \begin{bmatrix} y & 0 \\ 1 & 2 \end{bmatrix} = \begin{bmatrix} 5 & 6 \\ 1 & 8 \end{bmatrix}$

2. If A $= \begin{bmatrix} 3 & 1 \\ -1 & 2 \end{bmatrix}$, show that $A^2 - 5A + 7I = 0$ 1

3. Let R= $\{(a, a^3)$: a is a prime number less than 5$\}$. Find the range of R.   1

4. Using elementary row transformations find the inverse of the following matrix: $\begin{bmatrix} 1 & 2 \\ 3 & 7 \end{bmatrix}$ 1

5. If A is a 3× 3 matrix such that $|A| \neq 0$ and $|3A| = k|A|$ then write the value of k.   1

6. Give an example of two matrices A and B such that   2
   $A \neq 0, B \neq 0, AB = 0 \ and \ BA \neq 0$

7. Show that the function f:R$\rightarrow$ R, f(x)= $1+x^2$ is many one into.   2

8. Find the domain and range of the real function, defined by   3
   $f(x) = \frac{1}{1-x^2}$.

9. Let A=R−{3} and B=R−{1} . Let f: A$\rightarrow$B , f(x)= $\frac{x-2}{x-3}$ for all values of x∈ A. Show that f is   3
   one-one and onto.

10. Let S be the set of all real numbers and let R be a relation in S, defined by R=   5
    $\{(a,b):a \leq b^2\}$. Show that R satisfies none of reflexivity, symmetry and transitivity.

BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT-I (2021 – 2022)
PHYSICAL EDUCATION
CLASS – XII

Maximum Marks: 20

MULTIPLE CHOICE QUESTIONS: **[1×4=4]**

1.   What is the program made by the organizer before few days or on the same day of the competition called?
        a) Fixture   b) Seeding   c) Bye   d) None of these

2.   Which sports competition is organized within the school itself?
        a) Extramural   b) Intramural   c) Inter- state   d)None of these

3.   Which type of tournaments are generally conducted in individual games like Boxing and Tennis etc?
        a) Challenge tournament   b) League cum knock-out tournament   c) Stair case tournament   d) Cyclic tournament

4.   Which committee is responsible for selecting officials for sports events?
        a) Ground and equipment committee   b) Publicity committee   c) Technical committee   d) Transport committee

SHORT ANSWER TYPE QUESTIONS: **[2×3=6]**

5.   Give two reasons why tournaments are important.

6.   Write any three objectives of planning.

7.   Write three differences between Intramural and Extramural.

LONG ANSWER TYPE QUESTIONS: **[5×2=10]**

8.   What is knock-out tournament? Explain different types of knock-out tournaments. Draw a single elimination fixture of **21** teams.

9.   Mention all calculations and steps involved to draw a knock-out fixture of **18** teams, where **4** teams are to be given seeded.

BURNPUR RIVERSIDE SCHOOL
ASSIGNMENT –I: (2021 – 2022)
PHYSICS
CLASS: XII

Maximum Marks: 20

1.   Plot the variation of electric field versus distance for :
   (i)   a positive point charge.
   (ii) a negative point charge   2

2.   Two identical balls each having a density ρ, are suspended from a common point by two   2
      insulating strings of equal length. Both the balls have equal mass and charge. In
      equilibrium each strings makes an angle θ with the vertical. Now both the balls are
      immersed in liquid of density σ. Find the dielectric constant of the liquid.

3.   A thin fixed ring of radius a has a positive charge q uniformly distributed over it. A   2
      particle of mass m, having a negative charge Q, is placed on the axis at a distance of x
      (x<<a) from the center of the ring. Show that the motion of the negatively charged
      particle is almost simple harmonic. Calculate the time period of oscillation.

4.   A system consist of a thin charged wire ring of radius R and a very long uniformly   2
      charged thread oriented along the axis of the ring, with one of its end coinciding with the
      center of the ring. The total charge of the ring is equal to q. The charge of the thread
      (per unit length) is equal to λ. Find the interaction force between the ring and the
      thread.

5.   (a)   Charges +q and -2q are fixed at a distance d apart.   2
            Sketch roughly the pattern of electric field lines showing the position of neutral points.
      (b)   Where a charge particle q should be placed so that it experiences no force?

6.   Five point charges each of +q are placed on five vertices of a regular hexagon of length   2
      L. Find the magnitude of force on a point charge of –q placed at the center of the
      hexagon.

7.   Derive the expression of electric field due to a ring shaped conductor of radius "a"   3
      carrying a total charge "q" uniformly distributed around it at a distance of "x" from its
      center. Also plot the graph of electric field verses x.

8.   A uniform electric field E exists between two metal plates, one negative and other   5
      positive. The plate length is l and the separation between the plates is d.

      (a)   An electron and a proton start from the negative plate and positive plate, respectively,
            and go to opposite plates. Which one of them wins this race?

      (b)   An electron and a proton start moving parallel to the plates towards the other end from
            the midpoint of the separation of plates at one end of the plates. Which of the two will
            have greater deviation when they come out of the plates if they start with
            (a) same initial velocity
            (b) same initial K.E.
            (c) same initial momentum