

SUMMER BREAK ASSESSMENT
CLASS XII
(Session 2026-27)

English (301)

Write the answers of the following questions in your English Notebook

Q1. You have found an expensive geometry box in the school playground. Draft a notice in not more than 50 words for the school notice board. You are Rani, Class XII, Angel School, Faridabad.

Q2. Due to a sudden landslide and inclement weather, St. Francis School, Vasco has to be closed for a week. As Principal of that school, draft notice in not more than 50 words to be displayed at the school main gate notice board.

Q3. You are Sonali/Rahul from 46, A Street, Delhi. You read the given advertisement regarding the position of a graphic designer at Creative Studios. You decide to apply for the same. Write your application along with your bio- data.

JOIN CREATIVE STUDIOS

Seeking a Qualified Graphic Designer

- **Experience** - minimum 5 years

Role Requirement

- Design logos
- Produce multimedia presentations
- Develop layout for magazines and brochures

Must have Skills

- Adobe Photoshop, Corel Draw, Adobe InDesign

Contact - Director, Creative Studios

23/7, Roseview, Lake Point Street, Delhi

Q4. You are Maya Syiem from Shillong. You read the given advertisement and wish to apply for the post advertised. Write this job application along with your bio-data.

Join our Creative Team!

A renowned publishing house in Shillong

-A NEW WORLD-

is seeking a talented illustrator for children's books.

Creative individuals with a passion for storytelling through art, welcome.

Experience, not mandatory.

Team players with degree/ diploma in Fine Arts/ Graphic Design may apply with 5 samples from portfolio illustrating a variety of work.

Write to the Project Lead, 23-C Rosewood Lane, Shillong-793005

Q5. Desire, determination and diligence lead to success. Explain the values of these qualities in the light of Douglas' experience in 'Deep Water'. (120-150 words)

Q6. Which two incidents in Douglas' early life made him scared of water? (Deep Water)

Q7. "I crossed to oblivion and the curtain of life fell." What was the incident which nearly killed Douglas and developed in him a strong aversion to water? (Deep Water)

Mathematics (041)

Q1. Prove that $\sin^{-1} (3/5) - \sin^{-1} (8/17) = \cos^{-1} (84/85)$

Q2. Find the value of $\cos^{-1} (1/2) + 2 \sin^{-1} (1/2)$.

Q3. Prove that:

$$\sin^{-1} \left(\frac{3}{5} \right) - \sin^{-1} \left(\frac{8}{17} \right) = \cos^{-1} \left(\frac{84}{85} \right).$$

$$\tan^{-1} \frac{1}{2} + \tan^{-1} \frac{1}{5} + \tan^{-1} \frac{1}{8} = \frac{\pi}{4}.$$

$$\tan^{-1} x + \tan^{-1} \left(\frac{2x}{1-x^2} \right) = \tan^{-1} \left(\frac{3x-x^3}{1-3x^2} \right), \text{ where } |x| < \frac{1}{\sqrt{3}}.$$

Q4.

Use product $\begin{bmatrix} 1 & -1 & 2 \\ 0 & 2 & -3 \\ 3 & -2 & 4 \end{bmatrix} \begin{bmatrix} -2 & 0 & 1 \\ 9 & 2 & -3 \\ 6 & 1 & -2 \end{bmatrix}$ to solve the system of equations

$$x - y + 2z = 1, 2y - 3z = 1, 3x - 2y + 4z = 2$$

Given $A = \begin{bmatrix} 2 & 2 & -4 \\ -4 & 2 & -4 \\ 2 & -1 & 5 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & -1 & 0 \\ 2 & 3 & 4 \\ 0 & 1 & 2 \end{bmatrix}$, find BA and use this to solve the system of

equations $y + 2z = 7, x - y = 3, 2x + 3y + 4z = 17$

Q5. If A and B are symmetric matrices, prove that $AB - BA$ is a skew symmetric matrix.

Q6. Show that the matrix $B'AB$ is symmetric or skew symmetric according as A is symmetric or skew symmetric.

Q7. Find the values of p and q for which is continuous at $x = \pi/2$.

$$f(x) = \begin{cases} \frac{1 - \sin^3 x}{3 \cos^2 x}, & \text{if } x < \frac{\pi}{2} \\ p, & \text{if } x = \frac{\pi}{2} \\ \frac{q(1 - \sin x)}{(\pi - 2x)^2}, & \text{if } x > \frac{\pi}{2} \end{cases}$$

Q8. Find the value of k, for which $f(x)$ is continuous at $x = 0$.

$$f(x) = \begin{cases} \frac{\sqrt{1+kx} - \sqrt{1-kx}}{x}, & \text{if } -1 \leq x < 0 \\ \frac{2x+1}{x-1}, & \text{if } 0 \leq x < 1 \end{cases}$$

Q9. Find all points of discontinuity of f , where f is defined as follows.

$$f(x) = \begin{cases} |x| + 3, & x \leq -3 \\ -2x, & -3 < x < 3 \\ 6x + 2, & x \geq 3 \end{cases}$$

Q10. Differentiate:

$$\text{Differentiate } \tan^{-1} \left(\frac{\sqrt{1+x^2}-1}{x} \right) \text{ w.r.t. } \sin^{-1} \left(\frac{2x}{1+x^2} \right), \text{ when } x \neq 0$$

Art Integrated Activity:

1. Verify a limit of a function
2. Continuity and differentiability

PHYSICS (042)

Q 1. When a dielectric slab is inserted between the plates of an isolated charged capacitor (battery disconnected), the energy stored in it:

- (a) Increases (b) Decreases (c) Remains constant (d) First increases then decreases

Q2. The SI unit of permittivity of free space (ϵ_0) is:

- (a) $C^2 N^{-1}m^{-2}$ (b) Nm^2C^{-2} (c) C-m (d) None of them

Q 3. Two charges q_1 and q_2 are placed in vacuum. If a brass plate is placed between them, the force will:

- (a) Increase (b) Decrease (c) Remain same (d) Becomes zero

Q 4. Why does charge always flow from a smaller charged sphere to a larger spherical shell when they are connected by a wire, regardless of the shell's charge?

Q 5. Define the term mobility. How does the mobility of electrons in a conductor change, if the potential difference applied across the conductor doubled, keeping the length and temperature of the conductor constant?

Q 6. A battery of emf 12 V and internal resistance 4Ω is connected to an external resistance R. If the current in the resistance is 0.5A, calculate the value of (a) R, and (b) the terminal voltage of the battery.

Q 7. Plot a graph showing the variation of resistance of a conducting wire as a function of its radius, keeping the length of the wire and its temperature as constant. Also explain it, using relations.

Q 8. When 5V potential difference is applied across a wire of length 0.1m, the drift speed of electrons is 2.5×10^{-4} m/s. If the electron density in the wire is $8 \times 10^{28} \text{ m}^{-3}$, calculate the resistivity of the material of wire.

Q 9. (a) Derive the expression for the electric potential at any point M at a distance r from the center of an electric dipole of dipole moment p, where the line joining the point to the center makes an angle θ with the dipole axis.

(b) At which points is the potential: 1. Maximum? 2. Zero?

Q 10. A dielectric slab of thickness t ($t < d$) and dielectric constant K is inserted between the plates of a capacitor. Derive the expression for its new capacitance.

Q 11. Draw a circuit diagram showing balancing of Wheatstone bridge. Use Kirchhoff's rules to obtain the balance condition in terms of the resistances of four arms of Wheatstone Bridge.

Art Integrated Activity: Prepare a presentation on any topic: Electric current or Ray optics. (As discussed in the class)

CHEMISTRY (043)

I. Make an investigatory project as per C.B.S.E. guidelines. The points that should be kept in mind while making the project are:

Essential Chemistry Project Guidelines

- Project Structure (15-25 pages):
 - Title/Aim: Clearly define the investigation.
 - Introduction/Theory: Provide background information and scientific principles.
 - Materials & Apparatus: List required chemicals and equipment.
 - Procedure: Detailed, step-by-step methodology.
 - Observations & Data: Tables, graphs, and photographs (colored).
 - Analysis & Conclusion: Interpret data, draw conclusions, and discuss findings.
 - Bibliography: Cite books, websites, and magazines.
- Formatting and Content Guidelines:
 - Handwritten: Student should provide handwritten reports on A4 paper. Also, write the numerical data in tabular form (use pencil).
 - Scientific Approach: Ensure the project is investigatory (testing a variable) rather than just a report.
 - Safety: Emphasize lab safety and proper chemical disposal.
 - Originality: Encourage original work and prohibit plagiarism.

Multiple Choice Questions

1. A primary alkyl halide would prefer to undergo.

- (a) SN1 reaction (b) SN2 reaction
(c) a-Elimination (d) Racemization

2. Which of the following alkyl halides will undergo SN1 reaction most rapidly?

- (a) (CH₃)₃C-F (b) (CH₃)₃C – Cl
(c) (CH₃)₃C – Br (d) (CH₃)₃C-I

3. What should be the correct IUPAC name for diethylbromomethane?

- (a) 1-Bromo-1, 1-diethylmethane (b) 3-Bromopentane
(c) 1-Bromo-1-ethylpropane (d) 1-Bromopentane

4. Monochlorination of toluene in sunlight followed by hydrolysis with aq. NaOH yields.

- (a) o-Cresol (b) w-Cresol
(c) 2, 4-Dihydroxytoluene (d) Benzyl alcohol

5. CH₃CH₂OH can be converted into CH₃CHO by;

- (a) catalytic hydrogenation
(b) treatment with LiAlH₄
(c) treatment with pyridinium chlorochromate
(d) treatment with KMnO₄

6. a. Differentiate between SN1 and SN2.

b. Why there is racemization in unimolecular nucleophilic substitution reaction?

7. The major organic product in the reaction is

- a. CH₃O CH(CH₃)₂ + HI →
b. C₆H₅OH + Br₂(₂O) →

8. Arrange the following compounds in increasing order of acidity and give a suitable explanation.

- a. Phenol, o-nitrophenol, o-cresol, p-nitrophenol
b. RCH₂OH, R₂CHOH, R₃COH
c. C₆H₅OH, H₂O, C₆H₅OH

9. An organic compound 'A', molecular formula C₂H₆O oxidized with CrO₃ to form a compound 'B'. Compound 'B' on warming with iodine and aqueous solution of NaOH gives a yellow precipitate of compound 'C'. When compound 'A' is heated with conc. H₂SO₄ at 413 K gives a compound 'D', which on reaction with excess HI gives compound 'E'. Identify compounds A, B, C, D and E and write chemical equations involved.

10 Read the passage and write the answer of the following

Phenols undergo electrophilic substitution reactions readily due to the strong activating effect of OH group attached to the benzene ring. Since, the OH group increases the electron density more to o- and p- positions therefore OH group is ortho, para-directing. Reimer-Tiemann reaction is one of the examples of aldehyde group being introduced on the aromatic ring of phenol, ortho to the hydroxyl group. This is a general method used for the ortho-formylation of phenols.

Answer the following questions :

- (a) What happens when phenol reacts with
- (i) Br_2/CS_2
 - (ii) Conc. HNO_3
- (b) Why phenol does not undergo protonation readily ?
- (c) Which is a stronger acid – phenol or cresol ? Give reason.

OR

- (c) Write the IUPAC name of the product formed in the Reimer-Tiemann reaction.

11 a. Write chemical equations of the following reactions:

- i. Phenol is treated with conc. HNO_3 .
 - ii. Propene is treated with B_2H_6 followed by oxidation by $\text{H}_2\text{O}_2/\text{OH}^-$.
 - iii. Sodium t-butoxide is treated with CH_3Cl .
- b. Give a chemical test to distinguish between butan-1-ol and butan-2-ol.
- c. Give a chemical test to distinguish between ethanol and phenol.

Biology(044)

Q 1. Complete the writing part of practical note book as discussed in the class.

Q 2. Prepare an Investigatory Project on the topics of your choice.

Q 3. Art Integrated Project (Make separate file for art integrated project)

1. Draw labeled diagram of any two of the following:

- Parts of ovule
- Male and female reproductive organs
- Structure of sperm
- Monohybrid and Dihybrid cross

2. Draw flow chart of the following:

- Spermatogenesis and oogenesis
- Pedigree analysis for colour blindness

Physical Education (048)

Short Type Answer

- Q1. What is "an abnormal curvature of spine at front" termed as.
- Q2. Suggest two exercises for correcting round shoulders.
- Q3. Advantages of physical activities for children with special needs.
- Q4. What are the causes of disability?
- Q5. 'Participation in physical activity is advantages for children with special need'. Briefly explain any 6 advantages.

Long Type Answer

- Q6. Write briefly about maestral dysfunction and their effect on sports participation of female athletes.
- Q7. Write in detail about deaf Olympics. What are the aims and objectives of deaf Olympics?
- Q8. Briefly explain the eating disorders.

PRACTICAL FILE WORK

- PRACTICAL 1- Fitness Test Administration. (SAI Khelo India Test)
- PRACTICAL 2- Procedure for Asana, Benefits and Contraindication for any two Asanas for each lifestyle disease.

Computer Science (083)

Note: Do all the question in Assignment Note Book

Q1 Rohan is learning to work upon Relational Database Management System (RDBMS) application. Help him to perform following tasks:

- (a) To open the database named "LIBRARY"
- (b) To display the structure of the table "Books" stored in the opened database "LIBRARY"

Q2 Write the most appropriate list method to perform the following tasks:

- (a) Add an element in the beginning of the list.
- (b) Delete 3rd element from the list.

Q3 What will be the output of the following code snippet?

```
values=[ ]
for i in range(1,5):
    values.append(i)
print(values)
```

Q4 Consider the following table PLAYER

Table : PLAYER

PNO	NAME	SCORE
P1	RISHABH	52
P2	HUSSAIN	45
P3	ARNOLD	23
P4	ARNAV	18
P5	GURSHARAN	42

- (a) Identify and write the name of the most appropriate column/attribute from the given table PLAYER that can be used a Primary Key.
- (b) Define the term Degree in relational data model. What is the degree of the given table Player?

Q5 Write the output of SQL queries (a) to (d) based on the table Vaccination_Data given below:

VID	NAME	AGE	DOSE1	DOSE2	CITY
101	JENNY	27	2021-12-25	2022-01-21	DELHI
102	HARJOT	55	2021-07-14	2021-10-14	MUMBAI
103	SRIKANTH	43	2021-04-18	2021-07-20	DELHI
104	GAZALA	75	2021-07-31	NULL	KOLKATA
105	SHIKSHA	32	2022-01-01	NULL	MUMBAI

- (a) SELECT NAME, AGE FROM VACCINATION_DATA WHERE DOSE2 IS NOT NULL AND AGE >40;
- (b) SELECT CITY , COUNT(*) FROM VACCINATION_DATA GROUP BY CITY;
- (c) SELECT DISTINCT CITY FROM VACCINATION_DATA;
- (d) SELECT MAX(DOSE1),MIN(DOSE2) FROM VACCINATION_DAT ;

Q6 Write Python Code using Database connectivity that deletes the records of History Department Male Students from History Dept table. The program code retrieve / display all the records before deletion and after deletion .

Consider :

user ="learner " ,password = "1234" , Database = "University"

- Q7 Write a program in python named SwapHalfList(Array), which accepts a list Array of numbers and swaps the elements of 1st Half of the list with the 2nd Half of the list ONLY if the sum of 1st Half is greater than 2nd Half of the list.

Sample Input Data of the list:

Array= [100, 200, 300, 40, 50, 60],

Output Arr = [40, 50, 60, 100, 200, 300]

Note: Assume the content is entered in the Array variable.

Q8 Consider the following tables DOCTOR and write SQL queries for (i) to (iii)

TABLE : DOCTOR				
ID	NAME	DEPT	EXPERIENCE (yrs)	SEX
101	JOHN	ENT	12	M
104	SMITH	ORTHOPEdic	5	M
107	GEORGE	CARDIOLOGY	10	M

- (i) Increase experience of all the male doctors by 5 yrs.
- ii) Display the name of male doctors whose experience is in the range 5 to 10 .
- iii) Display the list of doctors in descending order of experience

Q9 Complete Your Project Work as per CBSE guideline.

Q10 Prepare a PowerPoint presentation on RDBMS (ART Integration Project)

Artificial Intelligence (843)

Objective type questions

- Q1. Which is the hardest stage in the foundational methodology of Data Science?
a. Business Understanding b. Data collection
c. Modelling d. Evaluation
- Q2. Business Sponsors defines the problem and project objectives from a _____ perspective.
a. Economic b. Feedback c. Business d. Data Collection
- Q3. Match the following and choose the correct options:
i. Descriptive approach A. Statistical Analysis
ii. Diagnostic approach B. Current Status
iii. Predictive approach C. How to solve it?
iv. Prescriptive approach D. Probabilities of action
- a. (i)—A , (ii)—B, (iii) – C , (iv)—D
b. (i)—B , (ii)—A, (iii) – D , (iv)—C
c. (i)—D , (ii)—B, (iii) – A , (iv)—C
d. (i)—A , (ii)—C, (iii) – B , (iv)—D
- Q4. Arrange the following statements in order
i. Gaps in data will be identified and plans to fill/make substitutions will have to be made
ii. Decisions are made whether the collection requires more data or not
iii. Descriptive statistics and visualization is applied to dataset
iv. Identify the necessary data content, formats and sources
a. i,ii,iii,iv b. iv,ii,iii,i c. i,iii,ii,iv d. ii,i,iii,iv
- Q5. Data Modelling focuses on developing models that are either _____ or _____
a. Supervised, Unsupervised b. Predictive, Descriptive
c. Classification, Regression d. Train-test split, Cross Validation
- Q6. Statement 1- There is no optimal split percentage

Statement 2- The most common split percentage between training and testing data is 20%-80%

- a. Statement 1 is true Statement 2 is false
 - b. Statement 2 is true Statement 1 is false
 - c. Both Statement 1 and 2 are true
 - d. Both Statement 1 and 2 are false
- Q7. Train-test split function is imported from which Python module?
- a. sklearn.model_selection
 - b. sklearn.ensemble
 - c. sklearn.metrics
 - d. sklearn. Preprocessing
- Q8. Identify the incorrect statement:
- i. cross-validation gives a more reliable measure of your model's quality
 - ii. cross-validation takes short time to run
 - iii. cross-validation gets multiple measures of model's quality
 - iv. cross-validation is preferred with small data
- a. ii and iii
 - b. iii only
 - c. ii only
 - d. ii, iii and iv
- Q9. Identifying the necessary data content, formats and sources for initial data collection is done in which step of Data Science methodology?
- a) Data requirements
 - b) Data Collection
 - c) Data Understanding
 - d) Data Preparation
- Q10. Data sets are available online. From the given options, which one does not provide online data?
- a. UNICEF
 - b. WHO
 - c. Google
 - d. Edge
- Q11. A _____ set is a set of historical data in which outcomes are already known.
- a. Training set
 - b. Test set
 - c. Validation set
 - d. Evaluation set
- Q12. _____ data set is used to evaluate the fit machine learning model.
- a. Training set
 - b. Test set
 - c. Validation set
 - d. Evaluation set
- Q13. `x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.2)` From the above line of code, identify the training data set size
- a. 0.2
 - b. 0.8
 - c. 20
 - d. 80
- Q14. In k-fold cross validation, what does k represent?
- a. number of subsets
 - b. number of experiments
 - c. number of folds
 - d. all of the above
- Q15. Identify the correct points regarding MSE given below:
- i. MSE is expanded as Median Squared Error
 - ii. MSE is standard deviation of the residuals
 - iii. MSE is preferred with regression
 - iv. MSE penalize large errors more than small errors
- a. i and ii
 - b. ii and iii
 - c. iii and iv
 - d. ii, iii and iv

Competency Based Questions

- Q1 A transportation company aims to optimize its delivery routes and schedules to minimize costs and improve delivery efficiency. The company wants to use Data Science to identify the most optimal routes and delivery time windows based on historical delivery data and external factors such as traffic and weather conditions. Various questions are targeted by data scientist to achieve this business goal. Identify the analytical approach model that can be used for each.
- a) determine the most suitable delivery routes for perishable goods, ensuring timely deliveries without explicitly using past data to make predictions.
 - b) gather insights on the average delivery times for different vehicle types, how they vary based on the complexity of delivery route.
 - c) group delivery routes into different categories based on the average delivery time and order volume.
- Q2. A leading investment firm aims to improve their client portfolio management system. They want to know whether Artificial Intelligence could be used to better understand clients' investment preferences and risk tolerance levels. Which stage of Data Science methodology can you relate this to?
- Q3. An Online Learning Platform has implemented a recommendation system to suggest personalized courses to users. They need to assess the effectiveness and accuracy of this system. Which stage of Data Science methodology can you relate this to?
- Q4 Identify the type of big data analytics (descriptive, predictive) used in the following:
- a. A clothing brand monitors social media mentions to understand customer perception. It uses data in the form of social media posts, comments, and reviews containing brand mentions to get a clear picture of overall customer sentiment and areas where they excel or fall short.
 - b. A factory aims to predict equipment failures before they occur to minimize downtime. It uses Sensor data from machines (temperature, vibration, power consumption) coupled with historical maintenance records to identify patterns in sensor data that indicate an impending equipment failure.
- Q5. Identify the type of big data analytics (diagnostic, prescriptive) used in the following:
- a. A subscription service experiences a rise in customer cancellations. It uses Customer account information, usage data (frequency of logins, features used), and support ticket logs to identify potential reasons for churn.
 - b. A food delivery service wants to improve delivery efficiency and reduce delivery times. It uses Customer location data, order details, historical delivery times, and traffic patterns to calculate the most efficient delivery routes.

Art Integrated Activity: Prepare a presentation on “AI in everyday life”.

PSYCHOLOGY (037)

Q1. Who among the following psychologists has suggested that an intelligent individual not only adapts to the environment, but also actively modifies or shape it?

- I. Gardner II. Sternberg III. Carl Jung IV. Guilford

Q2. In the following question, a statement of Assertion (A) is followed by a statement of the Reason (R). Mark the correct choice.

Assertion (A) An individual intelligence test is one which can be administered to one person at a time. A group intelligence test can be administered to several persons simultaneously.

Reason (R) Individual tests allow people to answer orally or in a written form or manipulate objects as per the tester's instructions. Group tests generally seek written answers usually in a multiple-choice format.

Codes

- (a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)
(b) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A)
(c) Assertion (A) is true, but Reason (R) is false
(d) Assertion (A) is false, but Reason (R) is true

Q3. Monika has to be assessed for her abilities of creativity and original thinking. The test to be used by the psychologist will involve the following.

- (a) Convergent thinking (b) Divergent thinking
(c) Both convergent and divergent thinking (d) Memory and logical thinking

Q4. Anna's application for admission to the college of her choice got rejected. When talking about the admission to the college with others, she tells everyone that she was never interested in studying in that college. Identify the defence mechanism used by Anna.

- (a) Repression (b) Reaction formation
(c) Denial (d) Rationalisation

Q5. Priyanka is considered as a gifted child who shown early signs of intellectual superiority since childhood, she show larger attention span, good recognition memory, sensitivity to environmental changes, and early appearance of language skills.

What type of traits a gifted child adhered with?

- I. Advanced logical thinking II. High level of intrinsic motivation
III. Solitary academic activities IV. Passive generalisation

Choose the correct option.

- (a) I and II (b) II and III (c) I, II and III (d) II and IV

Q6. In the following question, a statement of Assertion (A) is followed by a statement of the Reason (R). Mark the correct choice.

Assertion (A) When you say, "I know who I am", the self is being described as a knower as well as something that can be known.

Reason (R) As a subject (actor) the self actively engages in the process of knowing itself. As an object (consequence) the self gets observed and comes to be known.

Codes

- (a) Both Assertion (A) and Reason (R) are true, and Reason (R) is the correct explanation of Assertion (A)
- (b) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A)
- (c) Assertion (A) is true, but Reason (R) is false
- (d) Assertion (A) is false, but Reason (R) is true

Q7. _____ is the term used to describe the level of stress that is good for you.

Q8. The strategy which involves denying or minimising the seriousness of the situation while coping with stress is called _____ .

- (a) Task-oriented strategy
- (b) Emotion-oriented strategy
- (c) Avoidance-oriented strategy
- (d) Assertiveness

Q9. Jaqueline is very open minded teenage girl. She loves party, outing and enjoys being at the centre of attention among her peer group. Which personality characteristics associated with her?

Q10. 'An individual's response to a stressful situation largely depends upon the perceived events and how they are interpreted or appraised.' Do you agree with this statement with reference to Lazarus' theory? State a reason for your answer

Q11. Read the case and answer the questions that follow.

As in the case of other mental and physical characteristics, such variations can be attributed to the complex interaction of heredity and environment. There is no disagreement that creativity is determined by both heredity and environment. Limits of the creative potential are set by heredity, environmental factors stimulate the development of creativity. How much of the creative potential can be realised, when and in what specific form and direction is largely determined by environmental factors such as motivation, commitment, family support, peer influences, training opportunities, etc. Although no amount of training can transform an average person to the level of Tagore, Shakespeare, etc. but it is also true that every individual can raise her/his level of creative potential beyond its present level.

What do you understand by creativity?

Limits of the creative potential are set by heredity, environmental factors stimulate the development of creativity. Explain.

Q12. Harish a Passport issuing officer is known as a corrupt and greedy government employee. He treats people according to his/her capacity to pay him bribe to get their work done. When there is some external pressure, he surprisingly works honestly. Explain how consistency in behaviour, thought and emotion of an individual across situations and across time periods characterises her/his personality.

Q13. How does stress affect the immune system?

Q14. Describe the GAS model and illustrate the relevance of this model with the help of an example.

Q15. We know that certain lifestyle factors can cause stress and may lead to diseases like cancer and coronary heart disease, yet we are unable to change our behaviour. Explain why?

ART-INTEGRATED PROJECT WORK:

Development of case profile: Using appropriate methods like interview, observation & psychological tests.

Accountancy (055)

Prepare a Comprehensive Project based on CBSE Guidelines. Details are as under:

SEQUENCE OF THE PROJECT

1. Front page: To be printed on glossy paper
2. Certificate: To be printed on glossy paper
3. Acknowledgement
4. Contents/ Index
5. Prologue
6. Bibliography

One Specific Project based on financial statements analysis of a company covering any two aspects:

1. Cash Flow Statement
2. Accounting Ratios
3. Comparative and Common Size financial statements
4. Segment Reports

You are required to select one company and collect the information related to:

1. The Company- Introduction, Board of Directors, About the Company etc.
2. Print outs of financial statements comprising- Consolidated statement of Profit & Loss, Consolidated Balance Sheet and Consolidated Cash Flow Statement.

Economics (030)

Project Work

Students are supposed to make a project & art integration as discussed in class.

Steps to follow-:

➤ The project should be of 25-30 Pages (approx), preferably handwritten.

- Collection of the research material/data
- Organization of material/data
- Present material/data
- Analyzing the material/data for conclusion
- Draw the relevant conclusion
- Presentation of the Project Work

✓ Expected Checklist-:

- Introduction of the topic/title
- Identifying the causes, consequences and/or remedies

- Advantages and Disadvantages of situations or issues identified
- Short term and long term implications of economics strategies
- Validity, reliability , appropriateness and relevance of data used for research work and for presentation in the project file
- Presentation and writing that is succinct and coherent in project file
- Citation of the materials referred to, in the file in footnotes , resource section, bibliography etc

Answer the following questions:-

Q1. The main reason for stagnation in agricultural sector during British rule was:

- (a) De-industrialisation (b) Land settlement system
(c) Lack of technology (d) Commercialisation of Agriculture

Q2. The first official census was conducted in the year

- (a) 1891 (b) 1921 (c) 1781 (d) 1881

Q3. The foundation of British Empire in India was laid by Battle of Plassey fought in-

- (a) 1757 (b) 1857 (c) 1763 (d) 1747

Q4. If total deposits created by Commercial Bank is Rs.10,000 crores and legal reserve requirements is 40%,then amount of Initial Deposits will be:

- a. Rs. 2,000crores
b. Rs. 3,000crores
c. Rs.4,000crores
d. Rs.14,000crores

Q5. India's jute industry suffered heavily due to _____ after partition.

- (a) Lack of raw material (b) Famines
(c) Earthquakes (d) None of these

Q6. British rule introduced railways in India in the year-

- (a) 1849 (b) 1850 (c) 1851 (d) 1852

Q7. Read the following statements: Assertion (A) and Reason (R). Choose one of the correct alternatives:

Assertion (A): The agricultural sector accounted for the largest share of workforce with approximately 75% .

Reason (R): All the states witnessed an increase in dependence of workforce on the agricultural sector.

Alternatives:

- (a)Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
(b)Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A).
(c)Assertion (A) is true but Reason (R) is False.
(d) Assertion (A) is False but Reason (R) is true.

Q8. Briefly discuss the state of infrastructural facilities during the British period.

Q9. Briefly discuss the various reasons for development of infrastructure by the British Government.

Q10. Discuss the state of Indian Economy on the Eve of Independence.

Art-Integrated Project: Project on any topic based on the curriculum as discussed in class

Business Studies (054)

Q 1. Identify the reason which makes management important in the light of the fact that it is generally seen that individuals in organisations resist change, as a change often means moving from a familiar, secure environment into a newer and a more challenging one.

- a) Management helps in achieving groups goals.
- b) Management creates a dynamic organisation.
- c) Management increases efficiency.
- d) Management helps in the development of the society.

Q 2. From the following which is not a relevant feature of management as science:

- a) Principles are based on the basis of experimentation
- b) Systematized body of knowledge
- c) Based on practice and creativity
- d) Universal Validity

Q 3. Recently the Indian Government encouraged foreign companies to invest in some sectors of retailing in the country. Which dimension of business environment is mentioned in the given statement?

- (a) Political (b) Legal (c) Economic (d) Social

Q 4.

Identify the marketing concept shown in the picture.



A. Product Mix **C. Branding**
B. Target Market **D. Product Line**

Q 5. "What distinguishes a successful manager from a less successful one is the ability to put the principles into practice." Which aspect of the nature of management is highlighted in the above statement?

- a) Management as a science
- b) Management as an art
- c) Management as a profession
- d) Management is an intangible force.

Q 6. Explain the following features of Coordination:

- i. Coordination integrates group efforts.
- ii. Coordination is a deliberate function.

Q 7 Global foods Ltd.' Na multinational company in the food processing industry, has a good customer base. Recently it has expanded into new international markets. But due to increased awareness for health care, there is a shift in customer demand for healthier food options. For this reason, the company needs to adapt to frequent technological advancements in the production processes so that healthy food product options can be made available in the market. Additionally the company is concerned about functions at global level in commodity prices, exchange rates and political conditions. 'Global Food Ltd. is finding it increasingly difficult to predict future outcome due to the constantly changing nature of the market. In order to effectively cope up with these significant changes, managers have to understand and examine the environment to develop suitable course of action. By continuously monitoring the environment and adapting suitable business practices, the company will not only improve its present performance but also continue with it for a long period in achieving its objectives.

Identify and explain any three features and three importance of business environment.

Q 8. Arushi successfully runs a bookstore Children's delight catering to children of the age group of 5 - 15 years. They have the complete range of children's books like activity books, colouring books, fiction and much more. The books are of good quality and are highly appreciated by schools, parents and children. They have 16 stores all over India, where children can not only purchase the books, but can also come and read, and participate in quiz competitions and experience the joy of reading. They have their own well-managed inventory management, storage, and warehousing to deliver books to locations all over India. The bookstore regularly communicates the availability, features, merits, etc. of the books to target customers and persuades them to buy the books. Quoting lines in the situation identify and explain the two elements of marketing mix in addition to Product highlighted in the above case

Q 9. The physical handling and movement of goods from the place of production to the place of distribution is an important element of marketing mix.

- 1. Name and state the element.
- 2. Explain any three main components of this element

Q 10. Explain the following functions of Marketing:

- (i) Marketing Planning
- (ii) Customer support services.

Art-Integrated Project: Project on any topic based on the curriculum as discussed in class

PAINTING (049)

Q 1: "Create a village scene, City scene, hilly area scene, sunset scene, morning scene depicting two people and two animals/birds using watercolors or poster colors."

Q 2: "Create a scene depicting a balloon seller, Vegetable seller, market scene and anu 2 compositions using poster colors or watercolors."watercolor3

"Create any 5 still life in any 5 objects in this still life using poster colors or watercolors