10 C

HALF YEARLY EXAMINATION 10/2017

CLASS : XI

SUBJECT : PSYCHOLOGY (SET-I)

Time : 3 hrs. **M.M.: 70**

General Instructions :

(i) All questions are compulsory.

(ii) Part-A has 10 learning checks carrying one marks each. You are required to answer them as directed.

(iii) Question 11 to 16 in Part-B are very short answer type questions carrying 2 marks each. Answer to each question should not exceed 30 words.

(iv) Questions 17 to 20 in Part-C are short answer type-I questions carrying 3 marks each. Answer to each question should not exceed 60 words.

(v) Questions 21 to 26 in Part-D are short answer type-II questions carrying 4 marks each. Answer to each question should not exceed 100 words.

(vi) Questions 27 and 28 in Part-E are long answer type questions carrying 6 marks each. Answer to each question should not exceed 200 words.

PART-A **(1x10=10)**

Q1. _____ is an eating disorder in which the individual follows a binge and purge eating pattern.

Q2. When people do not want to maintain their cultural identity and they adopt the cultural identity of new culture, it is called _____.

Q3. The autonomic nervous system is divided into _____ and _____.

Q4. In psychology experiments, coercion is used to get subjects to participate in the study. True/False

Q5. Define bottom-up processing.

Q6. Infancy is a stage from zero to _____.

(a) 18 months (b) 2 years

(c) 6 months (d) 12 months

Q7. Rehan faces trouble in processing auditory information. He is not able to categorise or remember the words, and faces difficulty in comprehending symbol. Due to this his speech and writing skills have also been affected. Which lobe has been affected?

Q8. Multimode theory is given by _____.

Q9. _____ adversely affect prenatal development.

Q10. Which of the following behaviour can best be described as overt behaviour?

(a) Watching a TV game show.

(b) Thinking about the answer to question.

(c) Being sad that contestant answered incorrectly.

(d) Increase in palpitation.

PART-B **(2x6=12)**

Q11. Explain Debriefing.

Q12. What are the two features of pre-operational thought?

Q13. Differentiate between sympathetic and parasympathetic nervous system.

Q14. Draw a neat labelled diagram of neuron.

Q15. Define hypothesis and give any one example.

Q16. Discuss in brief Attention Deficit Hyperactivity disorder.

PART-C (3x4=12)

Q17. Explain the limitations of psychological enquiry.

Q18. Explain egocentrism by David Elkind.

Q19. Distinguish between clinical and counselling psychologists.

Q20. Discuss the following :

(a) Filter theory of attention.

(b) Filter attenuation theory of attention.

PART-D (4x6=24)

Q21. Briefly outline any two schools of thought in psychology.

Q22. How do quantitative methods differ from qualitative methods of analytics?

Q23. Discuss old age in detail.

Q24. Explain any two stages of Piaget's cognitive development theory.

Q25. How does enculturation differ from socialisation. Explain various sociolisation agents.

Q26. Discuss the goals of psychological enquiry.

PART-E (6x2=12)

Q27. What are the cues of Depth Perception? Explain any three Monocular cues in detail with examples.

OR

Explain any six principles of perceptual organisation given by Gestalt psychologists with examples.

Q28. How can you say that endocrine system plays an important part in the development of human beings? Name the important glands, the hormones secreted by them and the role of these hormones.

TERM 1 EXAMINATION
INFORMATICS PRACTICES
CLASS- XI

TIME: 3HOURS **MM: 70**

GENERAL INSTRUCTIONS:

- All the questions are compulsory.
- Answer the following questions after carefully reading the text.
- Relational Database – MySQL

Q1. a. What is the purpose of Ports in Computer? [1x10=10]

b. Name any one Super Computer developed in India.

c. 1 KB = _____ Bytes

d. Classify the following as input and output devices.

i. Light pen ii. flatbed plotter

e. Give two examples of storage devices.

f. Which of the following are not hardware :

i. Printer ii. Java iii. Keyboard iv. Assembler

g. Riya is not clear about the difference between the following two statements:

i. SELECT (9-6) * 12;

ii. SELECT (9-6) *12 FROM EMPL;

Help her to understand the difference between these two statements.

h. Give full form of - i) MICR ii) IDE

i. What is CAPTCHA?

j. Write MySQL command to create a new database "Computer".

Q2. a. How does firewall work? [1]

b. What do you mean by BIOS? [2]

c. Differentiate between a virus and a worm. [2]

d. Explain any two input devices? [2]

e. What is CPU? Explain its parts with diagram. [3]

Q3. a. What is the purpose of "order by" clause in MYSQL? [2x5=10]

b. Rohan has created table with 10 rows and 5 columns. After testing he added 20 rows and deleted 4 columns. What is the Degree and Cardinality of the table.

c. Write the difference between Alter and Drop command.

d. How is SYSDATE () different from Now ()?

e. What is the purpose of Primary Key? Explain with an example.

Q4. a. Write the output of the following queries: [1x10=10]

(i) SELECT ROUND(7777.777, 2);

(ii) SELECT DAYOFYEAR ("2015-03-07");

(iii) SELECT 5000+ SQRT (81) ;

(iv) SELECT INSTR ('RED SCHOOL ', 'H') ;

(v) SELECT POWER (2,4) ;

(vi) SELECT LENGTH ("MY BOOK") ;

(vii) SELECT SUBSTR(" INTELLIGENT",3,4);

(viii) SELECT YEAR ("2017-09-17");

(ix) SELECT CURDATE();

(x) SELECT LOWER(CONCAT("HELLO", "WORLD"));

Q5. Differentiate between the following – [2x5=10]

a. RAM and ROM

b. DDL and DML command

c. Application software & System software

d. Address bus and Control bus

e. Compiler and Interpreter.

Q6. a) Write SQL commands for the queries (i) to (x) based on a table OnLineShop. [8]

TABLE : OnLineShop

Code	name	Company	Qty	City	Price
101	Maggi	Kissan	20	Rajkot	70.00
102	Biscuit	Pule	70	New Delhi	100.00
105	Jam	Maggi	60	Ahmedabad	95.00
109	Sauce	Nestle	50	Rajkot	86.00
110	Chocolate	Cadbury	53	New Delhi	209.00
107	Cake	Hide & Seek	20	Chandigarh	380.00

(i) To display names of the items whose name starts with 'C' in ascending order of price.

(ii) To display code, item name and city of the items whose quantity is less than 100.

(iii) To display all items whose price value between 100 to 250.

(iv) To increase the price by 10% of all items.

(v) Add following record to the table.

115, Pizza, Nestle, 40, Rajkot, 75.00

(vi) To add one more column totalprice with numeric(10,2).

(vii) To remove jam items from the table.

(viii) To display chocolate, jam and biscuit.

b) i) Write all relational operators. [1]

ii) What is the use of Ltrim() function? [1]

Q7(a) Write MySQL command for creating a table **"CUSTOMER"** whose structure is given below:

[2]

Field Name	DataType	Size	Constraints
Cust_Number	Integer	4	Primary Key
Name	Varchar	20	
BirthDate	Date		
Amount	Integer	8	Not Null
Address	Varchar	20	
PhoneNo	Varchar	10	

(b) Write command to insert 1 record in table Customer. [1]
(c) Write mysql command to see the structure of the table. [1]
(d) Differentiate between DELETE and DROP Command. [2]
(e) What is a database? Give two examples. [2]
(f) Describe the Like predicate with the help of example. [2]

Term-I-17
Class - XI
SUBJECT: PHYSICAL EDUCATION

TIME: 3 HOURS M.M-70

General Instructions:

(i) All questions are compulsory.
(ii) Answer to question carrying 1 mark should be approximately 20-30 words.
(iii) Answer to question carrying 3 marks should be approximately in 70-100 words.
(iv) Answer to question carrying 5 marks should be approximately in 150-200 words.

Q1. What is the significance of sports? (1)

Q2. What is sports journalism? (1)

Q3. What is meant by life style? (1)

Q4. What do you mean by coordinative abilities? (1)

Q5. What is Olympic motto? (1)

Q6. What do you understand by wellness? (1)

Q7. What is Yama? (1)

Q8. What do you mean by Narcotics? (1)

Q9. Define the term environment? (1)

Q10. What is Doping? (1)

Q11. Write down the name of highest award in the field of sports? (1)

Q12. Explain the concept of adapted physical education? (Any three) (3)

Q13. Discuss the role played by spectators and media in creating a positive sports environment? (3)

Q14. What are the side effects of anabolic steroids? Explain in brief. (3)

Q15. What do you mean by pranayama? Mention the types of pranayama. (3)

Q16. Describe any three physiological benefits of Asanas? (3)

Q17. Elucidate the objectives of Modern Olympic Games. (3)

Q18. What do you mean by prohibited substances? Explain any three. (3)

Q19. Explain any three elements of Yoga? (3)

Q20. Discuss any five essential elements of Positive Sports Environment. (5)

Q21. Explain the career options available in the field of sports. (5)

Q22. What are Ergogenic Aids? Explain any four types of Ergogenic Aids. (5)

Q23. What do you mean by common lifestyle diseases? Discuss the methods of prevention and management of hypertension. (5)

Q24. Write short notes on the following. (5)

(a) In-and-out-of-competition testing for doping
(b) Responsibilities of athletes for doping control

Q25. Explain about Arjuna award in detail. (5)

Q26. Give detailed notes on any two of following. (5)

(a) Olympic oath
(b) Prevention and managements of Back Pain
(c) Paralympic movement

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HALF YEARLY EXAMINATION 10/2017

CLASS : XI

SUBJECT : MATHEMATICS (SET-II)

Time : 3 Hrs. **M.M.: 100**

General Instructions :

(i) All questions are compulsory.

(ii) The question paper consists of 29 questions divided into four sections A, B, C and D. Section-A comprises of 4 questions of 1 mark each, Section-B comprises of 8 questions of 2 marks each, Section-C comprises of 11 questions of 4 marks each and Section-D comprises of 6 questions of 6 marks each.

(iii) Use of calculators is not allowed.

SECTION-A

Q1. Find n if ${}^{2n}C_3 : {}^{n}C_3 = 11:1$

Q2. If n(A) = 2 and n(B) = 3, find the number of relations from A to B.

Q3. Solve the inequality $3 - 2x \geq x - 32$, given that $x \in W$.

Q4. If $f(x) = \sqrt{x-1}$ and $g(x) = 3 - 2x$ be two real functions, then find f/g.

SECTION-B

Q5. Two finite sets A and B have m and k elements respectively. If the ratio of number of elements in power set of A to number of elements in power set of B is 64:1 and n(A) + n(B) = 12, find the value of m and k.

Q6. In how many ways can 2 prizes (in Science and Maths) be awarded to 15 students? In how many ways can the first and second prize in History be awarded to 15 students?

Q7. Find the middle term in $\left(\frac{2x^2}{3} - \frac{3}{2x}\right)^{12}$.

Q8. Find the coordinates of focus, the equation of the directrix and the length of latus-rectum of $3y^2 = 8x$.

Q9. Find the derivative of $f(x) = (\sec x - 1)(\sec x + 1)$.

Q10. Find the value of $\cos 15°$.

Q11. If $R = \{(x, y) : x, y \in Z, x^2 + y^2 = 25\}$, then find the domain and the range of R.

Q12. If A, B and C are three sets then draw the venn diagram for $(A - B) \cup (B - A)$.

SECTION-C

Q13. Solve : $\sin x + \sin 3x + \sin 5x = 0$.

Q14. Find the term independent of x in the expansion of

$$\left(\frac{\sqrt{x}}{\sqrt{3}} + \frac{\sqrt{3}}{2x^2}\right)^{10}.$$

Q15. Find the domain and the range of $f(x) = \sqrt{9 - x^2}$

Q16. Solve the following system of inequalities and represent the solution graphically.

$$-2 - \frac{x}{4} \leq \frac{1 + x}{3}, \quad 3 - x < 4(x - 3)$$

Q17. Delhi's car license plate consists of 8 figures – 'D' followed by an alphabet followed by a numeral 1 to 4 followed by letter A, B, C or D followed by four digit non-zero number. How many licence plates can be made without duplicating?

Q18. If $f(x) = \frac{x \sin x}{1+\cos x}$, find $f^1(\Pi/2)$.

Q19. The sum of the coefficients of the first three terms of the expansion $\left(x - \frac{3}{x^2}\right)^m$, $x \neq 0$, $m \in N$ is 559. Find the value of m.

Q20. Evaluate : $\lim_{x \to \wedge} \frac{\sin 3x - 3\sin x}{(\Pi - x)^3}$

Q21. If $U = \{x : x \in N, x \leq 30\}$, $A = \{x : x$ is a prime number and $x < 5\}$, $B = \{x : x$ is perfect square $\leq 10\}$ and $C = \{x : x$ is a perfect cube $\leq 30\}$, the verify the following result $(A \cup B)' = A' \cap B'$.

Q22. Prove that :

$$\frac{\sin 3x + \sin 5x + \sin 7x + \sin 9x}{\cos 3x + \cos 5x + \cos 7x + \cos 9x} = \tan 6x$$

Q23. Find the coordinates of foci, the vertices, the lengths of transverse axis, conjugate axis, latus rectum and eccentricity of $y^2 - 16x^2 = 16$.

SECTION-D

Q24. Find the equation of the circle passing through (1, –2), (5, 4) and (10, 5)

Q25. Using PMI, prove that $10^n + 3.4^{n+2} + 5$ is divisible by 9, for all $n \in N$.

Q26. There are 6 corrupt persons and 3 honest persons in a colony. A committee of 5 is to be selected. What is the number of ways if there are :

(i) 3 corrupt and 2 honest persons in the committee?

(ii) atleast 1 honest person is in the committee?

(iii) atmost 1 honest person is in the committee?

What will happen if committee is formed without an honest person?

Q27. (i) Show that :

$$2\cos\frac{\Pi}{13}.\cos\frac{9\Pi}{13}+\cos\frac{3\Pi}{13}+\cos\frac{5\Pi}{13}=0$$

(ii) If $\sin x = \frac{3}{5}$ and $0 < x < \Pi/2$, find the value of $\sin 2x$ and $\cos 2x$.

Q28. Find the derivatives of the following functions :

(i) $f(x) = \sin^3 x.\cos^3 x$.

(ii) $f(x) = \dfrac{5\sec x - x^4}{x^2\cos\Pi}$

Q29. Solve the following system of inequalities graphically:

$3y - 2x \leq 4,\ x + y \geq 5,\ y < 4,\ x \geq 0$

HALF YEARLY EXAMINATION 10/2017

CLASS : XI

SUBJECT : ENGLISH (SET-II)

Time : 3 Hrs. **M.M.: 80**

General Instructions :

(i) This paper is divided into 3 sections : A, B and C. All sections are compulsory.

(ii) Separate instructions are given with each section and question, wherever necessary. Read these instructions very carefully and follow them faithfully.

(iii) Do not exceed the prescribed word limit while answering the questions.

SECTION-A (READING)

Q1. Read the given passage carefully and answer the questions that follow : (12)

(1) Spiritually seldom dribbled with soccer, until the 'Hand of God' came into play during the quarter final match of the 1986 World Cup football between Argentina and England. Diego Maradona claimed that divine intervention had helped him score the controversial goal.

(2) A short film made in 2003 by Mike Walker - Does God play football? - explored the relationship between God and Tommy, a seven year old football fan. Tommy's only desire is to have a father of his own to play football with. In the absence of a real Dad, he adopts God as his father with the help of a local priest - very like how the human soul longs for communion with the Universal spirit.

(3) An individual remains unfit for spiritual journey without the requisite physical and mental strength. Vivekananda said : "You will be nearer to Heaven through football than through the study of Bhagavad Gita". A player's patience and perseverance is tested on the football field at every moment; the ability to wringgle out of tough situations and hold on to one's nerves in tight situations. A seeker, too, has to undergo such trials during the inward game of realization.

(4) Look at football as a metaphor for life. The ball is the individual's ego. Team members are family and friends; trust in teammates is the foundation of a good relationship and helps the player win the match of happiness. The opposition players are obstacles like anger, pride, hatred, that must be overcome to reach the goalpost. The goalpost is the universal consciousness to which a person must ultimately submit the ego, to achieve true bliss. The coach is the guru who teaches the way and the player learns from his mistakes on the field. The referee is the law of karma that reinforces the correct rules for playing. The audience is society that reacts to performance on the field. As in life, a game that has started must end. As long as a person is in the game, one gets the illusion of limited time and space. Only when the game gets over, does one realize the limitlessness of time and space.

(5) Every player is assigned a particular role on the field according to his skills - forward, midfielder, defender, or goalkeeper. Similarly, in life we have designated roles. Our capabilities and choices determine the contribution we make to the world through our work. Like a player who can manoeuvre the ball on the field, a person has the free will to choose his thoughts, words and

actions. Football is meditation 'on the run'. A player is always 'in the moment' for the entire duration of the play. The player has no thought of past and no use for future, as all the scoring opportunities are created in the 'now'.

(6) Football teaches one to be a good spectator, one who watches the game with passionate detachment. For him, an exciting football match is only that - a game Wins or losses, even for his favourite team, do not bother him. A good spectator is like a joyful observer of life; he witnesses events around him as they come and go, and remains detached as he is always centered in truth.

(7) Today, football is a faith binding a legion of followers across the world. People, irrespective of their religions, nationalities and cultures, are tuning in simltaneously to watch live football. If this is not universal brotherhood, what else is?

(P. Venkatesh) (*Source : http://spiritually.indiatimes.com*)

I. Choose the most appropriate option to complete the given sentences : (4x1=4)

(a) When Diego Maradona played during 1986 World Cup football between Argentina and England, he claimed that _____'

(i) he was skillful enought to score a goal.

(ii) luck favoured him.

(iii) the divine intervention had helped him.

(iv) the opposite team was weak.

(b) For spiritual journey, one needs _____'

(i) physical and mental strength (ii) to do meditation regularly

(iii) to visit a temple every day (iv) to follow a guru

(c) The opposition players in the game of football represent _____ in real life.

(i) an opportunity to showcase your talent

(ii) obstacles like anger, pride, hatred

(iii) the society that judges one's performance

(iv) an opportunity to learn team spirit.

(d) One realizes the limitlessness of time and space _____.

(i) while playing the game of football.

(ii) while scoring a goal

(iii) when one wins the match

(iv) when the game gets over

II. Answer the following questions briefly : (6x1=6)

(e) What is the theme of the short movie 'Does God play football'?

(f) According to Vivekananda, how can we get near to the Almighty by playing football?

(g) Whom does the football coach represent in real life?

(h) How is football meditation 'on the run'?

(i) What are the similarities between playing the football game and playing the designated role in life?

(j) How does football teach one to be a good spectator?

III. Find words from the passage which mean the same as : (2x1=2)

(k) a figment of imagination (para 4)

(l) a planned and controlled movement or series of moves (para 5)

Q2. Read the passage given below and answer the questions that follow : (8)

(1) Nobody has the faintest idea when the first marbles rolled across the earth's surface, but small stones, deliberately chipped and rounded, have been unearthed at Stone Age excavations on three continents. Today, marbles from ancient Rome and Greece occupy places of honour of places like the British Museum and New York's Metropolitan Museum of Art. Shakespeare mentions "Cherry Pit", a game of marbles, marbles appear in a picter Bruegel painting and are referred to by the Roman poet, Ovid.

(2) Marbles are small, hard balls that are used in a variety of children's games and are to named after the 18th century practice of making them from mrable chips. Marble games date back to antiquity and ancient games were played with sea-rounded pebbles, nuts and seeds of some fruits. The young Octavian (later the emperor Augustus), like other Roman children, played games with nut marbles, and engraved marbles have been dug up from the earthen mounds built by some early North American Red Indian ribes. Early settlers in the USA found the Red Indians playing marble games with what archaeologists now refer to as "game stones".

(3) The object of marble games is to roll; throw, drop, or knuckle marbles against an opponent's marbles, often to knock them out of a prescribed area and so win them.

(4) Year after year, nearly 200 million marbles are turned out by the mixing, shaping and rolling machines of marble making factories. The demand for marbles is constantly increasing. In addition to children's games, like knuckling, marbles are also used in numerous other games. Chinese Checkers, a perennially popular game, requires 60 marbles for each game, 10 each for six other different colours.

(5) In the 20th century, marbles have been made of a variety of materials : baked clay, glass, steel, plastic, onyx, agate. During World War II, engineers perfected the little glass balls to such a degree that they could be substituted for steel bearings. Tons of these glass balls go to the lithographers and engravers, to be used in smothing the surface of copper printing plates. Special marbles are made for this purpose, to withstand the punishment of being rolled back and forth over the metal surfaces.

(6) Many highway signs are made of marbles. Each glass ball has an individual reflector behind it, so that headlights at night will spell out safety warnings. In the oil fields, refineries use acid proof marbles are filters and condensers. The glass balls are injected into old oil wells to prepare them for possible further use. Consequently, millions of dollars worth of oil can now be recovered.

(7) Some fish hatcheries place marbles on the bottom of pools, claiming better results during the spawning season. Paper mills now use glass balls in their manufacturing units. Only recently has it been found out that marbles are highly useful in the spinning of glass thread. And last, but not the least, when life comes to an end and the mortal remains are placed in a modern mausoleum, a dozen or so marbles are thrown by the mourners onto the tomb, so that the coffin will roll easily into place.

(a) On the basis of your understanding of the above passage, make notes on it, using headings and sub-headings and abbreviations (minimum four) wherever necessary. Also suggest a suitable title. (5)

(b) Write a summary of the passage in not more than 80 words usign the notes made. (3)

SECTION-B (ADVANCED WRITING SKILLS)

Q3. You are the manager of Dance House, Delhi. You are planning to organise a talent hunt competition for the budding dancers. Design a poster announcing the competition to be held in Delhi in the month of November.

OR

You are Amit, a resident of 26, Block-A, Model Town. You are planning to let out your three bedroom flat in Dwarka. Draft an advertisement in about 50 words to be published in 'Hindustan Times' under the classified columns. (4)

Q4. You are Navin/Namitha of Bangalore. Of late, you have noticed that crime against the elderly people is on the rise. Write a letter to the editor of the Deccan Herald drawign the attention of the concerned authorities and giving your suggestions.

OR

Recently, India's women's cricket team brought laurels to the country. Write a letter to the Editor of a national daily highlighting the need to provide better training opportunities to women players across the country. You are Sanjeev, 16/13, Kamla Nagar, Delhi. (6)

Q5. You are Chetna of DAV Public School, Vasant Vihar. Your school has recently built a well-planned auditorium to hold academic and cultural programmes. The editor of your school magazine has asked you to write a factual description for the magazine. Write the description in about 150-200 words.

OR

You are Preeti/Pranav, Head Girl/Boy of your school. Write a speech to be delivered at the Career Counselling Session for students of class XI of your school advising them to think seriously about their goals and aptitudes before choosing a stream of study. (150-200 words). (10)

SECTION-C (LITERATURE TEXT BOOKS AND LONG READING TEXT)

Q6. Read the given extracts and answer the questions that follow :

And forever, by day and night, I give back life
to my own origin,

And make pure and beautify it;
(for song, issuing from its birth place, after fulfilment, wandering
Reck'd or unreck'd, duly with love returns)

(a) What does the rain do day and night? (1)

(b) How does it give back life to its own origin? (1)

(c) How does the rain purify and beautify the earth? (1)

(d) Why are the last lines put within brackets? (1)

OR

Now she's been dead nearly as many years
As that girl lived And of this circumstance
There is nothing to say at all
Its silence silences.

(a) Who is 'she' in the above lines? For how many years 'she' has been dead? (1)

(b) What does 'this circumstance' refer to? (1)

(c) Explain 'Its silence silences'. (2)

Q7. Answer any four of the following questions in about 30-40 words each : (4x3=12)

(a) How did the narrator get back to the ship after been having thrown into the sea?

(b) Each photograph is a memory. Justify the statement in the light of the poem 'A Photograph'.

(c) Mourad showed a special concern for animals. Justify.

(d) What was the narrator's mother's opinion about Mrs. Dorling?

(e) What made the Shastri unhappy in the lesson 'Ranga's Marraige'?

(f) What do Doris and Cyril feel about Mrs. Pearson's changed behaviour?

Q8. Answer any one of the given question in about 120-150 words : (6)

How did the beautiful bond of love and friendship between the narrator and his grandmother change with the pasage of time?

OR

Why were the crewmembers desperate to look for an island? How did they manage?

Q9. Answer any one of the given question in 120-150 words : (6)

Describe the narrator's second visit to Mrs. Dorling's house.

OR

Describe the narrator's ploy to get Ranga married.

Q10. Answer the given question in about 120-150 words : (6)

What preparations did the Canterville ghost make for August 17 performance? What was his plan of action?

Q11. Answer the given question in 120-150 words : (6)

Write the character sketch of the twins.

HALF YEARLY EXAMINATION 10/2017

CLASS : XI

SUBJECT : COMPUTER SCIENCE (SET-II)

Time : 3 Hrs. **M.M.: 70**

General Instructions :

(i) All the questions are compulsory.

(ii) Programming language: C++

Q1. (a) Distinguish between input unit and output unit. (2)

(b) Define and distinguish between data and information with an example. (2)

(c) What is the function of ALU? (1)

(d) What is Proprietary Software? Explain with an example. (2)

(e) Define Application Software? Give example. (2)

(f) Define Multiprocessing OS. (1)

Q2. (a) What is Operating System? What are its functions? (2)

(b) What are keywords? Can keywords be used as identifiers? (2)

(c) What are String_literals in C++? What is the difference between character constants and string literals in terms of size? (2)

(d) Find the size of the following constant. (2)

(i) 373.33 (ii) '\n'

(iii) '@' (iv) "@"

(e) Write a program to input a number n. If the number n is odd and positve, print its cube otherwise print n^5. (2)

Q3. (a) What do you mean by Fundamental Data Types? How many Fundamental Data Types do C++ provides? Give all names. (2)

(b) Write a program to input any number and check whether given number is palindrome or not. (3)

(c) What are integer constants? How many ways are there in C++ to represent an integer constant? (2)

(d) With the help of an example illustrate the difference between entry controlled and exit controlled loops (2)

(e) What will be the result (true or false) of following two expressions if i = 10 initially? (1)

(i) i++<=10 (ii) ++i<=10

Q4. (a) What is type conversion? What is meant by type casting? (2)

(b) Construct logical expressions to represent the following conditions : (2)

(i) Height is greater than or equal to 100 but less than 150.

(ii) Rank is 'B' and experience is more than 25 years.

(c) What are relational operators. (1)

(d) Write a C++ program to check whether square root of the number is prime or not. (3)

(e) State why are following expressions invalid? Write the correct statements : (2)

(i) arm=5100||val<35 (ii) age>70 && <90

Q5. (a) Differentiate between syntax errors and semantic errors. (2)

(b) Rewrite the following if-else segment using switch-case statement. (2)

```
if (ch == 'P')
    cout<<"Platinum";
if (ch == 'G')
    cout<<"Gold";
if (ch == 'S')
```

(2)

```
        cout<<"Silver";
    else
        cout<<"Normal";
```

(c) What is an iteration statement? Which iteration Statements do C++ provides. (2)

(d) Write a statement that uses a conditional operator to set variable 'grant' to 60 if 'speed' is more than 98, otherwise to 10. (2)

(e) Convert the following : (2)

(i) $(7654)_{10} = (\quad)_{16}$

(ii) $(110011.11)_2 = (\quad)_{16}$

Q6. (a) Write a "while loop" that display even numbers from 2 to 100. (2)

(b) Rewrite the following program after removing the syntactical error(s), if any, underline each correction: (2)

```
#include<iostream.h>
void main( )
{
  const max=0;
  int a, b;
  cin>>a, b;
  if(a>b) max=a;
  for (x=0; x<max, x++) cout<<x;
}
```

(c) Find the output of the following program :

(i)
```
for (r=0; r<2; r++)
{
    int sum=0;
    for (c=2; c<=5; c++)
        sum+=c;
    cout<<"sum="<<sum+r<<endl;
}
```
(2)

(ii) If (!0) (2)

```
cout<<"Fourth Time Tricky\n";
cout<<"No?";
If(0)
cout<<"Fourth Tricky\n";
cout<<"Am I Right";
```

(d) How many times the following loop will execute? Write the value of 's' also. (2)

```
for (int s=0, i=3, i<=15; i+=3)
s+=i;
```

Q7. (a) Write a program to input any number and to print all multiplication table up to given number. (3)

(b) Write a program to find the sum of the following series.

(i) $1^2 + 3^2 + 5^2 + ... + n^2$ (3)

(ii) $x^2/2 + x^4/4 + x^6/6 + ... + x^{2n}/2n$ (3)

(c) Find two's complement of (-88). (use one byte memory). (1)

HALF YEARLY EXAMINATION

CLASS : XI

SUBJECT : GEOGRAPHY (SET-II)

Time : 3 hrs **MM : 70**

General Instructions :

(i) There are 22 questions in all.

(ii) All questions are compulsory.

(iii) Marks of each question are indicated against it.

(iv) Question numbers 1 to 7 are very short answer questions, carrying 1 mark each. Answer to each of these questions should not exceed 40 words.

(v) Question numbers 8 to 13 are short answer questions, carrying 3 marks each. Answer to each of these question should not exceed 80-100 words.

(vi) Question numbers 14 to 20 are long answer questions, carrying 5 marks each. Answer to each of these should not exceed 150 words.

(vii) Question number 21 and 22 are related to identification or locating and labelling of geographical features on maps.

(viii) Outline maps of the World and India provided to you must be attached within your answer book.

(ix) Use of templates or stencils for drawing outline maps is allowed.

Q1. Name any two examples of igneous rocks. (½+½=1)

Q2. What is the Inter-Tropical Convergence zone? (1)

Q3. Enlist any two erosional landform features formed by glacier. (½+½=1)

Q4. Mizoram is also known as 'Molassis basin'. Why? (1)

Q5. What is meant by Panthalassa? (1)

Q6. Name the largest tributary of Indus. (1)

Q7. Name the two main materials found at the earth's core. (½+½=1)

Q8. Explain the indirect sources of information about the interior of the earth. (1x3=3)

Q9. Describe the evolution of stalactites and stalagmite. (1½+1½=3)

Q10. Write any three characteristics of the Peninsular river. (1x3=3)

Q11. Why are time, topography and parent material considered as passive control factors in soil formation? (1x3=3)

Q12. 'Monsoon is a gambling for Indian farmers'. Explain. (1x3=3)

Q13. Describe the three stages of the evolution of the present atmosphere. (1x3=3)

Q14. Write an explanatory note on the 'Big Bang Theory'. (1x5=5)

Q15. 'Forest have an intricate interrelationship with life and environment'. Why are forests important for us? (1x5=5)

Q16. What are the evidences in support of the continental drift theory? (1x5=5)

Q17. (a) Mention the standard Meridian of India. Why has it been selected for India?

(b) Why do we need it? (2+3=5)

Q18. Give a detailed account of Indian Desert. (1x5=5)

Q19. (a) Name the geographer who coined the term geography.

(b) Distinguish between the two main approaches to study geography. (1+4=5)

Q20. Describe the Ganga river system. (1x5=5)

Q21. In the given outline map of the World, the following features are shown as A, B, C, D and E. (1x5=5)

(A) a major plate

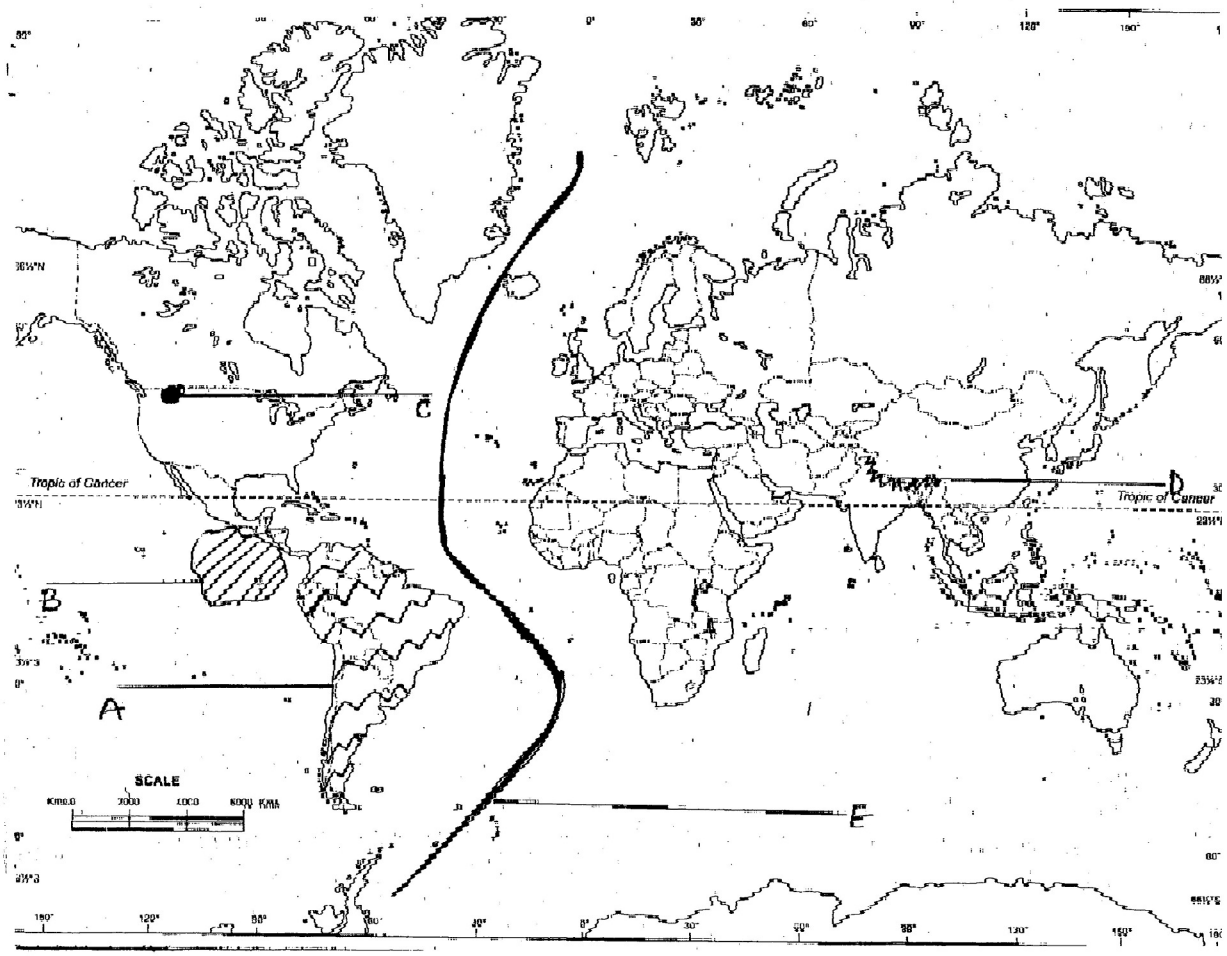
(B) a minor plate

(C) a hot spot

(D) an earthquake zone

(E) a ridge

Identify these features and write their correct names on the lines marked against each feature.



Q22. In the given political outline map of India, locate and label the following with appropriate symbols : (1x5=5)

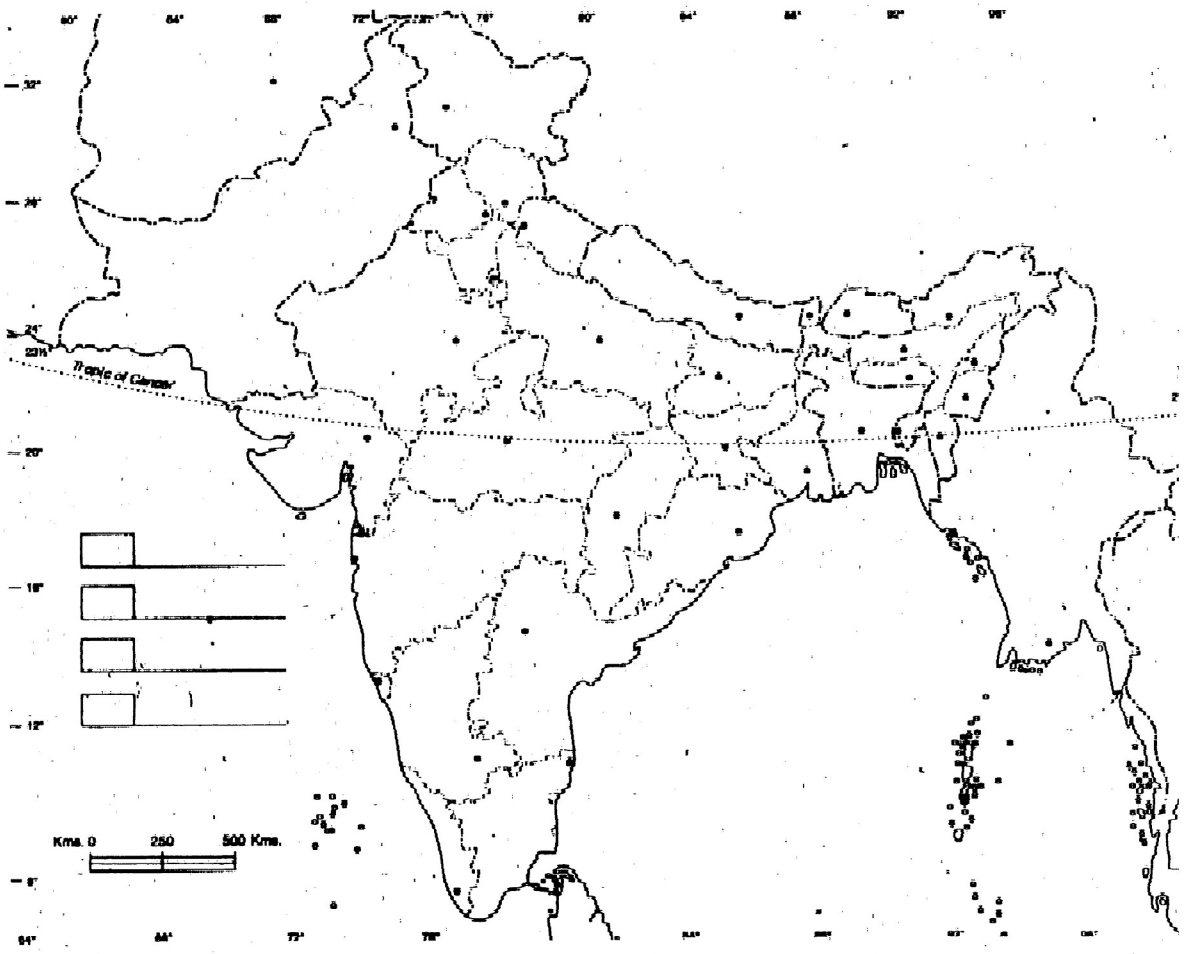
(A) a southernmost neighbour

(B) the oldest mountain range

(C) a river flowing through rift valley

(D) a place receiving the highest amount of rainfall

(E) a biosphere reserve in Assam



HALY YEARLY EXAMINATION 10/2017

CLASS : XI

SUBJECT : ECONOMICS [SET-II]

Time : 3 hrs. **M.M. : 100**

General Instructions :

(i) All questions in both the sections are compulsory.

(ii) Marks for questions are indicated against each.

(iii) Question numbers 1-5 and 16-20 very short answer questions carrying 1 mark each. They are required to be answered in one sentence.

(iv) Question numbers 6-8 and 21-23 are short answer questions carrying 3 marks each. Answer to them should not normally exceed 60 words each.

(v) Question numbers 9-11 and 24-26 are also short answer questions carrying 4 marks each. Answer to them should not normally exceed 70 words each.

(vi) Question numbers 12-15 and 27-30 are long answer questions carrying 6 marks each. Answer to them should not normally exceed 100 words each.

(vii) Answer should be brief and to the point and the above word limits should be adhered to as far as possible.

SECTION-A (Statistics for Economics)

Q1. Stratified sampling is preferred where : (choose the correct alternative) (1)

(a) population is homogeneous

(b) population is heterogeneous

(c) small samples are required

(d) random sampling is not possible

Q2. Sum of the square of the deviation of the items about arithmetic mean is : (choose the correct alternative) (1)

(a) Maximum (b) Minimum

(c) Zero (d) One

Q3. Which average would be the most suitable to find average production in a factory per shift? (choose the correct alternative) (1)

(a) Mean (b) Median

(c) Mode (d) Weighted mean

Q4. Give one point of difference between sampling error and non-sampling error. (1)

Q5. What is geographical classification? (1)

Q6. 'Statistics, although useful in many ways is not devoid of limitations.' Explain any three limitations of statistics in this regard. (3)

OR

Explain three characteristics of statistics in plural sense, using suitable examples.

Q7. Find median from the following data : (3)

Class Interval	1-10	11-20	21-30	31-40	41-50
Frequency	3	12	20	10	5

Q8. In Town A, total females comprises of 40% of the population, out of this 10% were non-vegetarians. Total vegetarians were 50% of the population.

In Town B, total females comprises of 50% of the population, out of this 20% were non-vegetarian. Total non-vegetarians were 60% of the population.

Tabulate the above data. (3)

Q9. Represent the following data, using a percentage bar diagram : (4)

Items of Expenditure	Expenditure (in ₹)	
	Family A	Family B
Food	200	200
Clothing	100	250
House Rent	80	100
Fuel and Lighting	40	150
Miscellaneous	80	300

OR

Draw a pie diagram to represent the following data showing marks obtained by a student in an examination.

Subjects	Business Studies	Accountancy	Statistics	Economics	English
Marks	80	100	50	40	30

Q10. Calculate arithmetic mean from the following data (Take assumed mean as 35) (4)

Mid point	5	15	25	35	45	55
Frequency	5	10	25	30	20	10

Q11. Locate the value of median graphically : (4)

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of students	3	9	18	30	18	12

Q12. (a) Distinguish between census method and sampling method of collection of data.

(b) What is telephonic interview method? Give its merits and limitations. (3+3=6)

OR

(a) Explain multi-stage sampling with the help of a suitable example.

(b) What is a questionnaire? List any two essentials of a good questionnaire.

Q13. Calcualate mode by grouping method from the following data : (6)

Marks	0-10	10-20	20-30	30-40	40-50
No. of students	10	20	30	20	10

Q14. (a) The following table gives the distribution of monthly salary of 458 employees. However, the frequencies of the classes 30-40 and 50-60 are missing. If the median of the distribution is 47, find the missing frequencies :

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of students	24	60	x	130	y	50	36

(b) State any two merits of median. (4+2=6)

Q15. (a) The average height of 40 students was calculated as 155 cm. It was later discovered that the height of two students was wrongly noted as 150 cm and 170 cm instead of 180 cm and 160 cm respectively. Calculate the correct average height.

(b) Calculate weighted mean for the given data. The weights assigned to Mathematics, Accountancy, English and Economics were 4, 3, 2 and 1 respectively.

Subjects	Mathematics	Accounting	English	Economics
Marks	45	50	70	80

(3+3=6)

SECTION-B (Indian Economic Development)

Q16. Selling off a part of the equity of a public sector unit to the private sector is known as : (Choose the correct alternative) (1)

(a) Liberalisation (b) Disinvestment

(c) Globalisation (d) Devaluation

Q17. Which of the following is not true for smal scale industries (SSI)? (Choose the correct alternative) (1)

(a) SSI is labour intensive and therefore, employment oriented.

(b) SSI needs less investment and is therefore, equity oriented.

(c) SSI is capital intensive and therefore, increases productivity.

(d) SSI shows locational flexibility and is therefore, equality oriented.

Why is government intervention required in human capital formation?

Q26. Why were economic reforms introduced in India in 1991? (4)

Q27. (a) Discuss the problems faced by farmers in marketing of their agricultural produce.

(b) What is organic farming? How does it promote sustainable development? (3+3=6)

OR

(a) How is agricultural diversification helpful to farmers? Explain.

(b) Explain the steps taken by the government in developing rural markets.

Q28. (a) Explain various land reforms introduced in agricultural sector after independence.

(b) What was the foreign trade policy of India during 1950-1990? (3+3=6)

Q29. (a) Discuss the financial sector reforms introduced under the New Economic Policy, 1991.

(b) Explain the external sector reforms introduced in India after 1991. (3+3=6)

Q30. (a) Explain 'growth oriented approach' adopted by the government for alleviation of poverty.

(b) Briefly explain three causes of poverty in India. (3+3=6)