

Combined Competitive Examination, 2019

Essay in English

Sunday the 21st April, 2019.
Time: 09:00 am to 11: 00 am

Maximum marks. 50

Note: Write an Essay on any One of the following topics. You are required to write an Outline of the Essay, a clearly articulated Thesis statement in the introductory paragraph and topic sentences in the body paragraphs. The Essay should present a tangible and coherent argument. You are encouraged to use simple English and Quote reference where applicable.

- 01 Media and the Corporate Monopoly.
- 02 Modern Technology Owes Ecology an Apology.
- 03 Feminism in 21st Century.
- 04 Rise of Islamophobia.
- 05 Pakistan is not a poor country but poor in management.
- 06 Money is a good servant but a bad Master.
- 07 Importance of Austerity in National Life.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

English General.

Sunday the 21st April, 2019.

Time: 02:00 pm to 05: 00 pm

Maximum marks. 100

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

Note-II. Attempt all Questions.

Question No.

Marks.

01. Write a well organized and coherent Essay on any One of the following: **20**
- (i) Civilized dissent is necessary for social progress.
 - (ii) They never fall who fall in good cause.
 - (iii) Disaster management and Government preparedness.
 - (iv) Wars do not solve any problem, peace does.

- 02 (a) Make a Précis of the following passage and give it a suitable heading: **20**

Things change with the passage of time. There have been great many changes in the world. Seasons of the year keep on changing. They follow one another in a cycle. Most of thickly populated cities and towns that existed centuries ago are reduced to ruins and give a deserted look now. Cities and towns that were destroyed by natural calamities or razed to the ground by invaders long ago have again been populated thickly and become great trading centres and tourist places. Some of them afford breath-taking scenes and wonderful places ever seen on the earth. Small towns have been developed to be big cities and deserted places have become worth-seeing places. This all happens because change is a constant course of life.

It is but natural that man is attracted by innovations, discoveries, inventions, new creations and change in his life. That is why he has created wonderful things for his ease and comfort. Wonderful, magnificent and sky-high buildings reflect his tendency to high life, luxurious living and glorious and glamorous station of life. Gone are the days when man used to light oil lamp and cooked food by burning firewood and coal. Means of transport, communications and routes of conveyance have drastically changed. Modern inventions have brought wonderful change in our life-style and made our mobility frequent and speedy, and living amazingly convenient.

Some drastic and violent changes were brought about by cruel and wicked invaders who not only plundered wealth and precious things, but also put tens of thousands of innocent people to sword. Genghis khan and Hulagu Khan of Mongol stock are the worst examples of tyranny, scourge, mass killing of Muslims and hostility and ill-will towards Islam. They laid cities, crops and bazaars waste and set libraries and properties of Muslims on fire and reduced magnificent buildings to debris and dust and burnt thousands of precious and rare books to ashes. Their invasions came as wrath of God to teach transgressors a lesson.

P.T.O.

03. Law and order situation in your town is getting worse day by day. Felonies of almost all sorts are getting rampant. Therefore, lives, properties and valuables of residents are at stake. As a peace-loving and law-abiding citizen of the town, apprise the concerned authorities of situation for restoration of law and order and peace there. **20**

OR

- You are keen on furthering your academic pursuits. As a Postgraduate in your discipline, write an application to the Chairman Higher Education Commission, Pakistan for a scholarship to meet your educational expenses abroad. Give some reasons for grant of a scholarship for a doctoral programme, and justify how far your degree would be useful for your country.
- 04 Explain and use meaningfully in your own sentences any **Ten** of the following idioms: **20**
- | | |
|---|---------------------------------------|
| (i) The best of both worlds. | (ii) Speak of the devil |
| (iii) See eye to eye | (iv) Once in a blue moon. |
| (v) When pigs fly | (vi) To cost an arm and a leg |
| (vii) A piece of cake. | (viii) Let the cat out of the bag |
| (ix) To feel under the weather | (x) To kill two birds with one stone. |
| (xi) To cut corners | (xii) To add insult to injury |
| (xiii) You can't judge a book by its cover. | (xiv) Break a leg. |
- 05 (a) Convert any **Five** of the following words into adjectives and use them (adjectives) in your sentences meaningfully. **10**
(i) Mouth (ii) Lip (iii) Word (iv) Language (v) Nose (vi) Neglect
(vii) Learn (viii) Number.
- (b) Sort out the synonyms from the words listed below: **05**
Proscription, assume, breakthrough, stumble, prohibition, stagger, foil step forward, counterpart, infer.
- (c) Sort out the antonyms from the words listed below: **05**
Arrogant, nonconformist, humble, deter, crooked, sparse, urge, traditional, straight, plentiful.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

General Knowledge (Including Everyday Science)

Tuesday the 23rd April, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
(ii) All the blank pages of Answer Copy must be crossed.
(iii) Extra attempted question(s) will not be assessed.

Note-II. Attempt any Five Questions. Question No.01 is compulsory.

<u>Question No.</u>		<u>Marks.</u>
01	(a) Write short notes on any <u>Two</u> of the following. Illustrate your answer with examples if necessary.	10
	(i) Ozone Depletion. (ii) Emotional intelligence. (iii) Placebo effect.	
	(b) Differentiate between any <u>Two</u> of the following:	10
	(i) Balanced Diet and Malnutrition. (ii) Tsunami and Avalanche. (iii) Good Cholesterol and Bad Cholesterol.	
	(c) What is Solid Waste? Describe key issues in Solid Waste Management in Sindh.	10
02	(a) Briefly comment about the following ethnic groups by identifying their locations, Socio-economic and Socio-political issues.	20
	(i) Rohingyas (ii) Kurds (iii) Uyghurs (iv) Red-Indians (v) Maoris and Aborigines.	
	(b) Briefly introduce and write the full form of the following:	10
	(i) ILO (ii) UNICEF (iii) IAEA (iv) ECOSOC (v) NADRA	

P.T.O.

- 03 Answer the following as directed. 30
- (i) Write the capitals of :
(i) Venezuela (ii) Kosovo (iii) South Sudan.
 - (ii) Name the upper houses of the legislatures of:
(i) India (ii) Pakistan (iii) The United Kingdom.
 - (iii) Name the Parliaments of:
(i) Iran (ii) Japan (iii) the United States.
 - (iv) New name of the following cities:
(i) Astana (ii) Saigon (iii) Leningrad.
 - (v) Name the currency of the following countries:
(i) Azerbaijan (ii) Sri Lanka (iii) Thailand.
 - (vi) Name the Authors of the following:
(a) We are Displaced (b) Jinnah of Pakistan.
(b) Songs of Blood and Sword.
 - (vii) Name three Women Nobel Peace Laureates of 21st Century from the Islamic world.
 - (viii) Identify the following as Country, State/Province and City; Oman and Amman, Ireland and Northern Ireland, Georgia and Georgia.
 - (ix) Write the District of:
(i) Rupamari (ii) Gorano Dam (iii) Chowkundi Graveyard.
 - (x) In which City following are located:
(i) Shaheed Benazir Bhutto University
(ii) Benazir Bhutto Shaheed University of Technology & Skill Development.
(iii) Shaheed Zulfiqar Ali Bhutto University of Law.
- 04 Is IMF a blessing or a curse for Pakistan’s Economy? What measures you suggest for Pakistan to get rid of external financial institutions? 30
- 05 What would be the scenario following the withdrawal of US troops from Afghanistan. How would it affect Pakistan’s National interest? 30
- 06 “Devolution of Power” is the best mean to check separatist trends and to consolidate national integrity in a country. Evaluate the role of 18th amendment in the light of the this statement. 30
- 07 What is the nature of global water crisis? Which states are at the verge of potential conflict on water issues? Comment on the future of water distribution in South Asia? 30
- 08 Write comprehensive notes on any **Two** of the followings: 30
- (i) Social Media Regulations and Fundamental Rights.
 - (ii) Venezuelan Crisis and Foreign Intervention.
 - (iii) Forceful Conversion; Myth or Reality.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

General Knowledge (Including Everyday Science)

Tuesday the 23rd April, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

- =====
- Note: (i) Attempt any Five questions in all. All Questions carry equal marks.
(ii) All the parts (if any) of each question must be attempted at One place instead of at different places.
(iii) Candidate must write Question No. in the Answer Book in accordance with Question No. in the Question Paper.
(iv) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
(v) Extra attempt of any question or any part of the attempted question will not be considered.
- =====

Question No.

- 01 Write short notes on the following. Illustrate your answer with examples if necessary.
(i) Ozone Depletion and Fossils Fuels (ii) Bit coin and Crypto-currency
(iii) Smog and Smoke (iv) Balanced Diet and Malnutrition.
(v) Reptiles and Amphibians.
- 02 (a) Briefly comment about the following ethnic groups by identifying their locations, Socio-economic and Socio-political issues.
(i) Rohingyas (ii) Kurds (iii) Uyghurs
(iv) Red-Indians (v) Maoris and Aborigines.
(c) Briefly introduce and write the full form of the following:
(i) ECP (ii) ILO (iii) NACTA (iv) UNICEF
(v) IAEA (vi) ECOSOC (vii) NADRA (viii) WMO
(ix) SPD (x) NDMA
- 03 Answer the following as directed.
(i) Write the capitals of : (i) Venezuela (ii) Kosovo (iii) South Sudan.
(ii) Name the upper houses of the legislatures of: (i) India (ii) Pakistan (iii) The United Kingdom.
(xi) Name the Parliaments of: (i) Iran (ii) Israel (iii) the United States.
(xii) New name of the following cities: (i) Astana (ii) Saigon (iii) Leningrad.
(xiii) Name the currency of the following countries: (i) Azerbaijan (ii) Sri Lanka (iii) Thailand.
(xiv) Name the Authors of the following:
(a) We are Displaced (b) The Ministry of Utmost Happiness
(b) Songs of Blood and Sword.
(xv) Name three Women Nobel Peace Laureates of 21st Century from the Islamic world.
(xvi) Identify the following as Country, State/Province and City; Oman and Amman, Ireland and Northern Ireland, Azerbaijan and West Azerbaijan, Georgia and Georgia.

P.T.O.

- 04 Is IMF a blessing or curse for Pakistan's Economy. What measures you suggest for Pakistan to get rid of external financial institutions?
- 05 What would be the scenario following the withdrawal of US-NATO troops from Afghanistan. How would it affect Pakistan's National interest.
- 06 "Devolution of Power" is the best mean to check separatist trends and to consolidate national integrity in a country. Evaluate the role of 18th amendment in the light of the above statement.
- 07 What is the nature of global water crisis? Which states are at the verge of potential conflict on water issues? Comment the future of water distribution in South Asia?
- 08 Write comprehensive notes on any two of the followings:
- (i) Social Medial Regulations and Fundamental Rights.
 - (ii) Venezuelan Crisis and Foreign Intervention.
 - (iii) Forceful Conversion; Myth or Reality.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019.

Arabic Literature Period-I

Sunday the 05th May, 2019.

Time. 02:00 pm to 05:00 pm

Maximum marks. 150

=====
Note: Attempt any Five Questions, selecting at least Two Questions from each Section.
All Questions carry equal marks.
=====

Question No.

SECTION-I

- 01 Fairs of the Pre-Islamic period played a vital role in enhancement of literary achievements. Discuss this statement with special reference to Fair of Sooq Ukaz ().
- 02 Write a comprehensive note on the life and poetry of Zuhair bin Abi Sulma.
- 03 Discuss the linguistic miracles of the Quran and its influence on the subsequent literature.
- 04 Discuss in detail the linguistic importance of literature of Hadith along with the methodology of Hadith.

SECTION-II

- 05 Write down the comprehension of poetry during the period of the Holy Prophet (SAWS) and the period of Khulafa-e-Rashdin (R.A).
- 06 Write down an article about the Umayyad poetry with special reference to the development of 'Ghazal' in this period.
- 07 Discuss in detail the poetry of Flytings and literary duel in the Arabic literature and the role 'Trio' during the Umayyad period in this regard.
- 08 Write a comprehensive note on method and style of Tafsir al-Kashaaf written by Jarauallah al-Zamakhshari.

=====

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

B O T A N Y

Saturday the 04th May, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

Note-I.

- (iv) Please attempt all parts of each Question at one place clearly indicating Question No.
- (v) All the blank pages of Answer Copy must be crossed.
- (vi) Extra attempted question(s) will not be assessed.

Note-II.

Attempt any Five Questions. All Questions carry equal marks.

Question No.

- 01 What are Phytohormones? Discuss Miller experiment in discovery of Cytokinin. Also describe the physiological role of Cytokinin in plants.
- 02 Discuss in detail the modern trends in Plant Taxonomy.
- 03 Are Gymnosperms beneficial for Pakistan. Discuss?
- 04 What is Pollution? Describe in detail different kinds of Soil pollution.
- 05 Write a comprehensive note on Climatic Zones of Sindh.
- 06 How life evolved on Earth : Discuss.
- 07 What are Genetically Modified Crops (GMC) and how GMCs are produced? What is their present status and future prospect in Pakistan?
- 08 Write in detail about Indus Delta. How destruction of Indus Delta will prove to be lethal for the life in Coastal Area : Discuss.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

C H E M I S T R Y

Saturday the 04th May, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

=====

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

=====

Note-II. **Attempt any Five Questions, selecting at least One question from each Section. All Questions carry equal marks.**

=====

Question No.

SECTION-I

- 01 Describe the basic ideas of VESPR theory and predict the shape of BCl₃, NH₃ and SF₆ molecules. What are the limitations of this theory?
- 02 Explain why:
- (i) CCl₄ and SiCl₄ are different in chemical behaviour.
 - (ii) O, S, Se, Te and Po are placed in same group in Periodic Table.
 - (iii) CO₂ is gas but SiO₂ is solid.
 - (iv) Flourine exists in -1 oxidation state only.
 - (v) Iodine has metallic character.
 - (vi) Ionic compounds having highly charged cations and anions are soluble in water.
 - (vii) BF₃ is a weaker lewis acid than BCl₃ and BBr₃.
- 03 Compare the elements of VA Group with respect to electronic configuration, oxidation states, electronegativity and formation of Halides and Hydrides. Also discuss the abnormal behaviour of Nitrogen in the same group.

SECTION-II

- 04 What are the crystal defects and how are they classified? What are the consequences of metal excess and metal deficient defects in a crystal?
- 05 Derive the Schrodinger's wave equation and solve it for particle in one dimensional box. What is the interpretation of wave function ψ ?

P.T.O.

- 06 (a) What are the assumptions of Van der Waals equation for gases? Give detailed derivation of the equation and the SI and CGS units of its constants 'a' and 'b'.
- (b) One mole of a hypothetical gas at 100°C and 50 atm occupies 537 ml. What will be the calculated value of the pressure according to ideal gas and Van der Waal equations? Also calculate the percentage deviation in each case, given that $a=3.61 \text{ atm lit}^2 \text{ mol}^{-2}$, $b=0.0428 \text{ lit mol}^{-1}$ and $R=0.821 \text{ lit. atm.K}^{-1} \text{ mole}^{-1}$

SECTION-III

- 07 How is Acetylene prepared on Industrial scale? Discuss catalytic hydrogenation, hydroboration, halogenation and hydrohalogenation of Acetylene giving appropriate examples.
- 08 How will you synthesize the following:
- (i) Malonic acid from Chloroacetic acid.
 - (ii) Malic acid from Bromosuccinic acid.
 - (iii) Pinacolone from Pinacol.
 - (iv) Nitroglycerine from Glycerol.
 - (v) 2-Methyl-2-butanol from Acetone.
 - (vi) Ethylene from Ethyl bromide.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

C I V I L L A W.

Saturday the 04th May, 2019.

Time. 02:00 pm to 05:00 pm

Maximum marks. 150

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

Note-II.

Attempt any Five Questions. All Questions carry equal marks.

01 Write short notes on any **Five** of the following:

- (i) Forgery.
- (ii) Judgment and Decree.
- (iii) Contingent Contract.
- (iv) Mesne Profit.
- (v) Will.
- (vi) Contract of Agency.
- (vii) Sale and Agreement to sell.

02 How a person may avail declaration when his/her right or status is denied in Civil Law and Elaborate types of injunctions.

03 Elaborate Res-Judicata and Res-Subjudice keeping in view of rejection of plaint.

04 Under which stage plaint may be amended or returned and its principles.

05 Explain Reference, Review and Revision. Which Court has above powers?

06 What is supplementary proceeding and suit of interpleader.

07 Define Rescission of Contract and Cancellation of document and when rescission may be adjudged.

08 Differentiate between Contract of Bailment, Pledge and Mortgage and What are the types of Mortgage under transfer of Property Act.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

COMMERCE.

Thursday the 02nd May, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

Note-I.

- (vii) Please attempt all parts of each Question at one place clearly indicating Question No.
(viii) All the blank pages of Answer Copy must be crossed.
(ix) Extra attempted question(s) will not be assessed.

Note-II.

Attempt any Five Questions, selecting atleast One question from each Section. All Questions carry equal marks.
Only Scientific Calculator is allowed. Use of Programmable Calculator is strictly prohibited.

Question No.

SECTION-I

(Industrial and Commercial Organizations)

- 01 Provide legal definition of Corporation and explain its aspects in detail. Also, differentiate between (i) Cartel and Trust (ii) Horizontal and Vertical Combination.
- 02 Examine critically various sources of raising Long-term Funds by a Joint Stock Company.
- 03 Define Entrepreneurship. What decisions have to be taken by an entrepreneur for establishing new enterprise and how does promotion mix help him/her?

SECTION-II

(Industrial and Commercial Law)

- 04 (a) Explain the general rules of relating to "Offer and Acceptance" under the Contract Act, 1872.
(b) What is the status of a "Finder of Goods" under the Contract Act, 1872? What are his rights?
- 05 Discuss various Modes of creating an Agency. Also, state the Rights of a surety under Contract of Guarantee.
- 06 Discuss 'Hazardous Process' under the Factories Act, 1934 amended in 1948. Do the Government employees have a fundamental of statutory right to go on strike under the Industrial Disputes Act, 1947 amended as IRA 2012?

P.T.O.

SECTION-III
(Statistics)

- 07 (a) Write down merits and demerits of Spearman's Coefficient of Correlation.
(b) The Rank obtained by 10 individuals before and after training of some course, are given below. Compute Spearman's Correlation Coefficient.

Ranks before training	1	6	3	9	5	2	7	10	8	4
Ranks after training.	6	8	3	7	2	1	5	9	4	10

- 08 (a) Briefly discuss Normal Distribution with properties. What are the main properties related to normal probability curves?
(b) Five coins are tossed 3200 times. Find the frequencies of the distribution of heads and tails and tabulate the result.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

CRIMINAL LAW.

Thursday the 02nd May, 2019.

Time. 02:00 pm to 05:00 pm

Maximum marks. 150

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

Note-II. Attempt any Five Questions. All Questions carry equal marks.

Question No.

- 01 Differentiate between criminal breach of trust and criminal conspiracy.
- 02 Define the principle against double jeopardy. State the law concerning double jeopardy and exceptions to it.
- 03 Distinguish between:
 - (a) Direct evidence and hearsay evidence.
 - (b) Common intention and common object.
 - (c) Statements under Section 340(2) Cr.P.C and 342 Cr.P.C.
- 04 Define and discuss identification in criminal cases. State the procedure involved in identification parade and the rules to be observed therein.
- 05 Define and discuss dying declaration, its evidentiary value, and the procedural requisites of it.
- 06 State briefly the grounds on which the applications under Section 265-K as well as 249-A Cr.P.C. are to be considered.
- 07 What do you understand by mischief and describe the different kinds of mischief, if any punishable under the Pakistan Penal Code?
- 08 Write short notes on any **Three** of the following:
 - (a) Unlawful Assembly.
 - (b) Cognizable Offence.
 - (c) Commission.
 - (d) Expert Opinion.
 - (e) Substance not covered by CNS Act.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

E C O N O M I C S

Sunday the 28th May, 2019.

Time. 02:00 pm to 05:00 pm

Maximum marks. 150

Note-I.

- (x) Please attempt all parts of each Question at one place clearly indicating Question No.
- (xi) All the blank pages of Answer Copy must be crossed.
- (xii) Extra attempted question(s) will not be assessed.
- (xiii) **Only Scientific Calculator is allowed, use for Programmable calculator is strictly prohibited.**

Note-II. Attempt any **Five** Questions. All Questions carry equal marks.

Question No.

01 Why Agriculture's share in GDP and Employment in Pakistan has reduced overtime? How has the rising Urbanization contributed to this decline?

02 Differentiate between accounting profit and economic profit. Does accounting profit or economic profit determine how entrepreneurs allocate resources between different business ventures? Explain.

03 The table below shows total product, fixed cost and variable cost of a firm.

Total Product	0	1	2	3	4	5
Total Fixed Cost (Rs)	60	60	60	60	60	60
Total Variable Cost (Rs)	0	45	85	120	150	185

- (a) Calculate total cost, average fixed cost, average variable cost, average total cost and marginal cost.
 - (b) Graph total fixed cost, total variable cost and total cost.
- 04 Define Money and explain its various forms. Are Debit and Credit Cards Money? Why or why not?
- 05 Define Terms of Trade (ToT) and explain various Types of ToT. Why do Terms of Trade go against less developed counties like Pakistan?
- 06 Pakistan is currently facing an acute shortage of foreign exchange reserves and historically Pakistan's foreign exchange reserves have remained highly volatile. What are major factors that affect foreign exchange reserve flows to a country like Pakistan?
- 07 Consider an economy in which income Per Capita is 1241 USD, Life Expectancy is 65.7 years, Adult Literacy Rate is 53.5 and the Gross Enrollment Rate is 51.1, calculate Human Development Index.
- 08 Please write detailed note on the following:
- (i) Industrial Policy of Pakistan.
 - (ii) Interest Free Banking in Pakistan.
 - (iii) Consumer behavior.
 - (iv) Measurement of National Income.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

English Literature Period-II.

Saturday the 04th May, 2019.

Time. 02:00 pm to 05:00 pm

Maximum marks. 150

Note-I.

- (xiv) Please attempt all parts of each Question at one place clearly indicating Question No.
- (xv) All the blank pages of Answer Copy must be crossed.
- (xvi) Extra attempted question(s) will not be assessed.

Note-II. Attempt any Five Questions. All Questions carry equal marks.

Question No.

- 01 Dickens' Novels mainly comprise biographical elements of his life. Illustrate from his Novels.
- 02 Thackeray was a greatest novelist of his age. His novels are known by their particular characteristics. Elucidate with references from his novels.
- 03 Robert Browning's poetry is serious in tone and philosophical in subject matter and treatment. Explain with references from his works.
- 04 What is Tennyson's idea of faith and immortality as expressed in "In Memoriam"?
- 05 There are certain brilliant elements of Victorian life reflected in Arnold's poetry. Explain with references from his poems.
- 06 In Hardy's novels man struggles against powers beyond his strength and surrenders to circumstances. His characters in his novels portray helpless souls, overcome by unavoidable situations. Illustrate.
- 07 What are the distinguishing marks of Carlyle as a historian?
- 08 Write an Essay on any **One** of the following topics.
 - (a) Literary characteristics of the Victorian Age.
 - (b) Thackeray's Realism.
 - (c) Classic Elements present in "Sohrab and Rostum" by Matthew Arnold.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

English General.

Sunday the 21st April, 2019.

Time: 02:00 pm to 05: 00 pm

Maximum marks. 100

Note-I.

- (xvii) Please attempt all parts of each Question at one place clearly indicating Question No.
(xviii) All the blank pages of Answer Copy must be crossed.
(xix) Extra attempted question(s) will not be assessed.

Note-II. Attempt all Questions.

Question No. **Marks.**

01. Write a well organized and coherent Essay on any One of the following: **20**

- (v) Civilized dissent is necessary for social progress.
(vi) They never fall who fall in good cause.
(vii) Disaster management and Government preparedness.
(viii) Wars do not solve any problem, peace does.

02 (a) Make a Précis of the following passage and give it a suitable heading: **20**

Things change with the passage of time. There have been great many changes in the world. Seasons of the year keep on changing. They follow one another in a cycle. Most of thickly populated cities and towns that existed centuries ago are reduced to ruins and give a deserted look now. Cities and towns that were destroyed by natural calamities or razed to the ground by invaders long ago have again been populated thickly and become great trading centres and tourist places. Some of them afford breath-taking scenes and wonderful places ever seen on the earth. Small towns have been developed to be big cities and deserted places have become worth-seeing places. This all happens because change is a constant course of life.

It is but natural that man is attracted by innovations, discoveries, inventions, new creations and change in his life. That is why he has created wonderful things for his ease and comfort. Wonderful, magnificent and sky-high buildings reflect his tendency to high life, luxurious living and glorious and glamorous station of life. Gone are the days when man used to light oil lamp and cooked food by burning firewood and coal. Means of transport, communications and routes of conveyance have drastically changed. Modern inventions have brought wonderful change in our life-style and made our mobility frequent and speedy, and living amazingly convenient.

Some drastic and violent changes were brought about by cruel and wicked invaders who not only plundered wealth and precious things, but also put tens of thousands of innocent people to sword. Genghis khan and Hulagu Khan of Mongol stock are the worst examples of tyranny, scourge, mass killing of Muslims and hostility and ill-will towards Islam. They laid cities, crops and bazaars waste and set libraries and properties of Muslims on fire and reduced magnificent buildings to debris and dust and burnt thousands of precious and rare books to ashes. Their invasions came as wrath of God to teach transgressors a lesson.

P.T.O.

03. Law and order situation in your town is getting worse day by day. Felonies of almost all sorts are getting rampant. Therefore, lives, properties and valuables of residents are at stake. As a peace-loving and law-abiding citizen of the town, apprise the concerned authorities of situation for restoration of law and order and peace there. **20**

OR

- You are keen on furthering your academic pursuits. As a Postgraduate in your discipline, write an application to the Chairman Higher Education Commission, Pakistan for a scholarship to meet your educational expenses abroad. Give some reasons for grant of a scholarship for a doctoral programme, and justify how far your degree would be useful for your country.
- 04 Explain and use meaningfully in your own sentences any **Ten** of the following idioms: **20**
- | | |
|---|---------------------------------------|
| (i) The best of both worlds. | (ii) Speak of the devil |
| (iii) See eye to eye | (iv) Once in a blue moon. |
| (v) When pigs fly | (vi) To cost an arm and a leg |
| (vii) A piece of cake. | (viii) Let the cat out of the bag |
| (ix) To feel under the weather | (x) To kill two birds with one stone. |
| (xi) To cut corners | (xii) To add insult to injury |
| (xiii) You can't judge a book by its cover. | (xiv) Break a leg. |
- 05 (a) Convert any **Five** of the following words into adjectives and use them (adjectives) in your sentences meaningfully. **10**
(i) Mouth (ii) Lip (iii) Word (iv) Language (v) Nose (vi) Neglect (vii) Learn (viii) Number.
- (d) Sort out the synonyms from the words listed below: **05**
Proscription, assume, breakthrough, stumble, prohibition, stagger, foil, step forward, counterpart, infer.
- (e) Sort out the antonyms from the words listed below: **05**
Arrogant, nonconformist, humble, deter, crooked, sparse, urge, traditional, straight, plentiful.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

ENGLISH HISTORY.

Friday the 03rd May, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

=====

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

=====

Note-II. Attempt any Five Questions. All Questions carry equal marks.

=====

Question No.

- 01 Write a critical note on the effects of American war of independence on the British Empire.
- 02 What were the strategies and consequences of the union of England with Scotland and Ireland?
- 03 The wars between England and France resulted in nothing worthwhile for both the belligerents. They (wars) rather weakened and badly affected them both. Substantiate.
- 04 Trace out the ways and means of the English journey from Agriculture to Industrial Revolution.
- 05 Assess the main features of English Foreign policy during Victorian era.
- 06 What socio-political reforms were brought forth during Edwardian era? Discuss with special reference to the emergence of Labour Party.
- 07 How did Britain play its part in the settlement of peace in the aftermath of the World War-I?
- 08 The English History is replete with incidents, setbacks, turns and revolutions within and without England. It lent her (England) a fair name, reputation, stable administrative machinery and economy at the end of all nettle – testing situation of the English, people were over. Substantiate.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

English Literature Period-I.

Sunday the 05th May, 2019.

Time. 02:00 pm to 05:00 pm

Maximum marks. 150

=====

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

=====

Note-II.

Attempt any Five Questions. All Questions carry equal marks.

=====

Question No.

- 01 Discuss in detail, why is Sir Walter Scott considered a great writer of Romantic verse tales?
- 02 What are the main features of Wordsworth's critical work "Preface to Lyrical Ballads"?
- 03 What are the characteristics of Romanticism in the essays of Charles Lamb?
- 04 Bring out a comparison of Keat's poems 'Ode to a Nightingale' and 'To Autumn'? How do these poems represent Keats as a poet?
- 05 How does Percy Shelley's treatment of nature differ from earlier romantic poets? Discuss with textual examples.
- 06 Discuss the impact of French Revolution on literature in general and romantic poetry in particular.
- 07 Discuss the portrayal of marriage and wealth in the world of Jane Austen.
- 08 Critically discuss Lord Byron as a romantic poet with especial reference to his poem 'When we two parted'.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

Essay in Balochi

Monday the 22nd April, 2019.

Time. 09:00 am to 11:00 am

Maximum marks. 50

=====

Note: Write an Essay on any One of the following in Balochi.

=====

- 01 Role of Writers in the formation of a peaceful Society.
- 02 Uniform Education System and our Curriculum.
- 03 The Role of Local Government in the progress of a Society.
- 04 Need for harmony among various institution of the Government.
- 05 The Role of our Languages (Pakistani Languages) in the promotion of National Integrity.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

European History.

Saturday the 27th April, 2019.

Time. 02:00 pm to 05:00 pm

Maximum marks. 150

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

Note-II. **Attempt any Five Questions. All Questions carry equal marks.**

Question No.

- 01 What are the major differences between Soviet-style Communism and the China model of Communism?
- 02 Discuss the long term effects of the French Revolution on European History and politics.
- 03 Critically analyze the growth of nationalism in Europe from 1850 to 1914.
- 04 Discuss the creation and role of North Atlantic Treaty Organization in the history of the world to the present day?
- 05 What factors led to the rise of right wing authoritarian regimes in Europe in 1919-1939?
- 06 Discuss the contribution of Klemens von Metternich to create peace and stability in Europe; explain the terms “Balance of Power” and “Concert of Europe”.
- 07 How did the dismissal of Bismarck change the fortunes of Europe?
- 08 What Role did Germany and Italy play in the Spanish Civil War in 1936?

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

ETHICS AND PSYCHOLOGY.

Tuesday the 30th April, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

Note-II.

Attempt any Five Questions. All Questions carry equal marks.

Question No.

- 01 “Ethics is the science of moral conduct” Comment and discuss the relation of Ethics with Society and Law.
- 02 Write short notes on the following:
 - (a) Professional Ethics
 - (b) Moral Judgement.
- 03 Mention the concept and causes of Abnormality.
- 04 How Erickson has explained the psychosocial development in his theory?
- 05 Describe the types of intelligence, IQ and EQ. How can you assess these types?
- 06 What are the major differences between sensation and perception?
- 07 Mention the Piaget’s Theory of cognitive development.
- 08 Discuss the Eysenck’s dimensions of the personality.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

F O R E S T R Y

Thursday the 02nd May, 2019.

Time. 02:00 pm to 05:00 pm

Maximum marks. 150

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

Note-II. Attempt any Five Questions. All Questions carry equal marks.

Question No.

- 01 How do Mangroves survive? Write a detailed note on Status, Management & Restoration of Mangrove Ecosystem.
- 02 Write short notes any **Five** of the following:
 - (i) Coral.
 - (ii) Sustainable Development Goals (SDGs).
 - (iii) Red++
 - (iv) Forest Biometrics.
 - (v) Shifting Cultivation.
 - (vi) Remote Sensing.
 - (vii) Agro-Forestry Systems.
 - (viii) Pros and cons of Billion Tree project of Prime Minister of Pakistan.
- 03 Traditionally , Rangelands are considered as “Barren Lands” or “Wastelands”. Explain the role of Rangelands in Rural Economy.
- 04 List Key Legal and Policy Instruments that focus on protection and conservation of forests and biodiversity resources in Pakistan. Briefly discuss weaknesses during implementation.
- 05 Explain why Pakistan is deficient in Tree cover? What are the main reasons of deforestation in Pakistan? What is the remedy?
- 06 (a) Define Erosion Strip. How and when erosion strips are laid out in Riverine Forests.
(b) Explain & highlight the technical terms used such as Chir Line, Initial Erosion Strip & Emergency Erosion Strip etc.
- 07 Explain the importance of Silvicultural Systems. Which Silvicultural systems are practiced in Temperate and Sub-Tropical Deciduous forests? Mention their merits and demerits.
- 08 Discuss fundamental principles of Wildlife Management. What is the importance of Wildlife Sanctuary, National Park, and Game reserve? Wildlife laws and policies are effective to curtail illegal hunting and poaching. Do you agree? If no then why?

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

GEOGRAPHY

Monday the 29th April, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

Note-II. Attempt any Five Questions. All Questions carry equal marks.

Question No.

- 01 Describe the erosional and depositional landforms developed by rivers.
- 02 Why is ongoing tropical deforestation regarded as a catastrophe to so many natural scientists?
- 03 What climatic and terrain features influence the distribution of terrestrial biome regions?
- 04 Define Tectonic process? Describe how compressional mountain building produces folds, faults, overthrust faults and thrust sheets.
- 05 What are the four principal lifting mechanisms that cause air masses to ascend cool, condense, form clouds and produce precipitation? Briefly describe each.
- 06 Define Mean Sea Level. How is this value determined? Is it constant or variable around the world? Explain.
- 07 Morphology of towns is an important aspect of Urban Geography. In this context Urban Geographers have advanced theories of urban growth and functional development. Discuss with suitable examples.
- 08 Discuss in detail the sustainable urbanization with reference to bridging green and brown agendas.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

G E O L G Y

Thursday the 02nd May, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

Note-II. Attempt any Five Questions. All Questions carry equal marks.

Question No.

- 01 Discuss on the position of Earth in Solar system in the context that why life exists on earth. Also describe the methods through which the age of earth is determined.
- 02 Enlist various sub-branches of Stratigraphy and discuss significance of law of Superposition in particular, other principles of Stratigraphy in general.
- 03 What are the basis for classification of minerals? Describe any five physical properties along with their types which are frequently used for the identification of unknown minerals.
- 04 What is the relationship of Geological structures with Plate Tectonics? Why do the study of different Geological structures is important for various applications of Geology in civil work, petroleum exploration and mitigation of different Geological hazards?
- 05 Describe any Five igneous, sedimentary and metamorphic rocks along with their uses. Describe the importance of Polarizing Microscope in identification of minerals and applications of petrographic studies.
- 06 Is there any relationship between Geophysics and Petroleum Geology? Describe any two branches of Geophysics which are used for mineral exploration.
- 07 What kind of metallic minerals are found in Pakistan? Enlist these along with their occurrence. Also discuss on the petroleum and coal potential of Sindh.
- 08 What is an Index fossil? Under what condition an organism becomes a fossil? Describe various processes and types of fossilization.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

HUMAN ANATOMY

Saturday the 27th April, 2019.

Time. 02:00 pm to 05:00 pm

Maximum marks. 150

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

Note-II. Attempt any Five Questions. All Questions carry equal marks.

Question No.

- 01 Describe in detail the boundaries and contents of femoral triangle and give its clinical significance.
- 02 Write down the formation, course of median nerve and mention its branches supplying the different parts of upper limb.
- 03 Define the temporomandibular joint under the following headings.
 - (a) Component bones & type of joint.
 - (b) Capsule & ligaments.
 - (c) Muscles act on the joint and movements produced by them.
- 04 Describe the Anatomy of urinary bladder.
- 05 Write down the embryological origin and development of liver.
- 06 Describe the gross appearance of cerebellum especially mention cerebellar cortex.
- 07 Discuss the Macro and Micro structure of thymus.
- 08 Describe the characteristics, features and structure of a synovial joint; give its varieties along with suitable examples.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

INTERNATIONAL RELATIONS.

Thursday the 25th April, 2019.

Time. 02:00 pm to 05:00 pm

Maximum marks. 150

Note-I.

- (xx) Please attempt all parts of each Question at one place clearly indicating Question No.
- (xxi) All the blank pages of Answer Copy must be crossed.
- (xxii) Extra attempted question(s) will not be assessed.

Note-II. Attempt any Five Questions. All Questions carry equal marks.

Question No.

- 01 Who coined the term “Thucydides Trap”? What is this trap about? Explain it in detail from the prevalent international order and illustrate your answer with examples.
- 02 What is “Regime Change Policy”? Despite “Regime Change” it always bounces back and its repercussions are devastating. Why the United States is having a dangerous role in Venezuela Crisis?
- 03 (a) Why the United States did not experience balancing against it in the aftermath of the Soviet collapse? Critically comment in the light of Balance of Threat Theory.
(b) What is Pivot to Asia policy? Who architected this policy and against whom? Explain.
- 04 Differentiate between Foreign Polity and Diplomacy? Which factors determine the foreign policy of a State and what general tools/methods are deployed by a State to achieve its foreign policy objectives?
- 05 Explain the concept of deterrence in military strategy. What are different types of deterrence? How a State achieves credible deterrence in the age of asymmetric and non-conventional warfare?
- 06 Explain the importance of geographic position as the element of national power. How far it is true to associate CPEC with Pakistan’s geographic location. What are the other elements of Pakistan’s national power?
- 07 What are the prospects of forming a strategic alliance among Pakistan, Malaysia and Turkey to combat growing Islamophobia? Are there precedents in the past for such alliances in International Relations? Elaborate the scope and limitation of this idea in detail.
- 08 Write short notes on any **Three** of the following:
 - (i) Indian Elections and War Hysteria.
 - (ii) Currency Devaluation and Exports of Pakistan.
 - (iii) Afghan Peace Process; Higher the expectations lower the outcome.
 - (iv) Democratic Peace Theory.
 - (v) The Great March of Return.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

INDIAN HISTORY PERIOD-I

Monday the 29th April, 2019.

Time. 02:00 pm to 05:00 pm

Maximum marks. 150

=====

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

=====

Note-II. Attempt any Five Questions. All Questions carry equal marks.

=====

Question No.

- 01 “The Gupta Period stands at the centre of Indian History”. Discuss the development of Arts and Literature in the Gupta period.
- 02 Discuss the Second Battle of Tarain. What causes and forces made for the advent and growth of Muslim power in India?
- 03 Narrate the part played by Kabir and Guru Nanak in bridging the Gulf between the Hindus and Muslims of the Sub-Continent.
- 04 Discuss the causes and socio-political and economic implications of the attack of Alexander the Great on India.
- 05 “The Arab conquest of Sindh was an episode in the History of India and Islam, a triumph without results”. Analyze this statement Stanley Lane- Poole.
- 06 Discuss the “Blood and Iron” Policy of Ghiasuddin Balban with special reference to the Mongol invasion of India.
- 07 Elaborate and evaluate the reforms introduced by Alauddin Khilji during his reign.
- 08 Was Feroz Shah Tughlaq a benevolent ruler with a special reference to his reforms package during his reign?

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

INDIAN HISTORY PERIOD-II

Friday the 26th April, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

=====

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

=====

Note-II. Attempt any Five Questions. All Questions carry equal marks.

=====

Question No.

- 01 “Babar’s Memoirs (Tuzk-e-Babri)” speaks volumes of truth about the great literary skills and taste of Babar. Do you agree or not? Comment.
- 02 Critically evaluate the Rise and Fall of Suri Dynasty.
- 03 Analyze the advancement of Music and Painting under Mughals.
- 04 What positive and negative role was played by Syed Brothers during later Mughal Era?
- 05 Compare and Contrast the Personalities and Policies of Lord Clive and Lord Dupleix.
- 06 Account for the invasion of Ahmad Shah Abdali and its after-effects.
- 07 Which factors did lead to the War of Independence, 1857? Why it is also called as mutiny? Explain its after effects.
- 08 Write short notes on any Three of the following:
 - (i) Mir Jumla.
 - (ii) Bahadur Shah Zafar.
 - (iii) Battle of Plassy.
 - (iv) Sultan Hyder Ali.
 - (v) British East India Company.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

ISLAMIC HISTORY PERIOD-I

Wednesday the 24th April, 2019.

Time. 02:00 pm to 05:00 pm

Maximum marks. 150

=====
Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

=====
Note-II. Attempt any Five Questions, selecting at least Two questions from each Section. All Questions carry equal marks.
=====

Question No.

SECTION-I

- 01 Discuss in detail the influence of Nomadic Tribes over Arabia before emergence Islam.
- 02 Write steps taken by Prophet Muhammad(SAWS) to reform the society. Prove that the Holy Prophet(SAWS) gave a new life to the low society of Arabs.
- 03 Discuss in detail the historic importance of letters written by Hazrat Ali (RA) to Malik Al-Ashtar Governor of Egypt.
- 04 Discuss in detail the Civil and Military Administrative policies of Amir Muawiyah (RA).

SECTION-II

- 05 Write in detail the Reign of Caliph Sulaiman Bin Abdul Malik.
- 06 What reforms were made in Bait-ul-Maal during the time of Caliph Umar Bin Abdul Aziz.
- 07 Briefly describe the character and achievements of Caliph Abdul Malik Bin Marwan.
- 08 Discuss the achievements of Muslims in the field of medicine and science during Umayyad period.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

ISLAMIC HISTORY PERIOD-II

Friday the 03rd May, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

=====
Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

=====
Note-II. Attempt any Five Questions, selecting at least Two questions from each Section. All Questions carry equal marks.
=====

Question No.

SECTION-I

- 01 Write a comprehensive note on Abbasid Administrative Machinery.
- 02 Estimate Caliph Hadi as one of the great Abbasid Caliphs of Baghdad.
- 03 Barmakid Family was an early supporter of the Abbasid revolt against the Umayyad. Comments and Discuss about their rise and fall.
- 04 Al-Mamoon gathered scholars of many religions at Baghdad, whom he treated magnificently and with tolerance. Comment.

SECTION-II

- 05 The Spanish Muslims created a splendid civilization and organized economic life. Comment.
- 06 Critically Evaluate the Muslim contribution in the field of Architecture, Painting and Calligraphy under Muslim Rule of Spain.
- 07 Examine the political and dynastical factors leading to the final collapse on the Muslim Rule in Andalusia.
- 08 The Umayyad Rule in Spain fail into progressive decay after the death of Ibn Abi Amir al-Hajib. Discuss fully.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

JOURNALISM (MASS COMMUNICATION).

FRIDAY the 26th April, 2019.

Time. 03:00 pm to 06:00 pm

Maximum marks. 150

=====

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

=====

Note-II. Attempt any Five Questions. All Questions carry equal marks.

=====

Question No.

- 01 What is the difference between Advertising and Public Relations? Does Public Relations offer advantages not available through Advertising? Explain.
- 02 Write a Feature Article for a magazine on any **One** of the following topics:
 - (a) Thar Coal Project (its advantages and disadvantages).
 - (b) Girl Child Education (burning issue of Sindh).
- 03 Do you think Press is free in Pakistan? Which elements are controlling the Media?
- 04 “Mass Culture is a commodity to be resulting in Standardization”, Explain this statement with reference to critical theory.
- 05 Develop three research Questions, Hypothesis and the appropriate methodology to investigate on the Research topic “Comparison of Pakistan’s Economy between the Past and the Present Government”.
- 06 How would you define Peace Journalism? Explain Structural Violence in the light of the Theory given by ‘Johan Galtung’.
- 07 Explain Internal and External Public and how political parties formulate public opinion during election campaign.
- 08 Write short notes on the following:
 - (a) Invention of Film in Indo-Pak.
 - (b) Cultivation Theory.
 - (c) Rostows Model of Development.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

P H Y S I C S.

Sunday the 05th May, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

Note-II.

Attempt any Five Questions. All Questions carry equal marks.

Only Scientific Calculator is allowed. Use of Programmable Calculator is strictly prohibited.

Question No.

- 01 (a) Explain the Law of Conservation of the Angular Momentum of a particle and also derive the relation for it.
- (b) A uniform ladder of length L and weight $W = 50N$ rests against the smooth vertical wall. If the coefficient of the friction between ladder and the ground is 0.40 , find the minimum angle θ_{\min} such that the ladder may not slip.
- (c) A pump is needed to lift water through height of 2.5 m at the rate of $500g/min$. What must be the minimum horse power of the pump?
- 02 (a) Explain the difference between longitudinal and transverse waves. Also derive the relation for the different modes of the standing waves.
- (b) Standing wave is established in a 120 cm long string fixed at both ends. The string vibrates in four segments when driven at 120 Hz (i) Determine the Wavelength (ii) What is the fundamental frequency?
- (c) A 250 Hz tuning fork produces four beats per second when sounded with another fork of unknown frequency. What are the two possible values of the unknown frequency?
- 03 (a) Explain the diffraction of the X-rays through crystals.
- (b) What is interference of the light waves? Discuss the phenomenon of the formation of the Newton's rings.
- (c) How far apart are the diffraction planes in a NaCl crystal for which X-rays of wavelength 1.54 \AA makes a glancing angle of $15^\circ 54'$.

P.T.O.

- 04 (a) Explain the working principle of Carnot Engine.
 (b) Determine the average value of the Kinetic Energy of the particles of an ideal gas at 0°C and at 50°C .
 (c) A heat engine operates between two reservoirs at temperature of 25°C and 300°C . What is the maximum efficiency of this engine?
- 05 (a) A water molecule (H_2O) has an electric dipole moment $p=6.2 \times 10^{-30}$ C.m. How far apart are the effective centers of positive and negative charge in the molecule? ($q_e = 1.6 \times 10^{-19}\text{C}$)
 (b) An electric dipole consists of $+2e$ and $-2e$ separated by 0.78 nm . It is in an electric field of strength $3.4 \times 10^6\text{N/C}$. Calculate the magnitude of torque on the dipole when the dipole moment is (i) Parallel (ii) At a right angle and (iii) Opposite to the electric field.
 (c) A particle carrying the charge of 10^{-5} starts from rest in uniform electric field of intensity 50 Vm^{-1} . Find the force on the particle and the Kinetic energy it acquires when it has moved 1 m .
- 06 (a) Calculate the torque on the current carrying coil placed in a uniform magnetic field.
 (b) What is Ampere's Law? How to measure the torodial magnetic field using Ampere's Law?
 (c) Explain the working principle of step up and step down transformer.
- 07 (a) Describe and compare the operations of a centre-tapped full wave rectifier and bridge rectifier.
 (b) Define ripple voltage and ripple factor. Calculate the ripple factor if $V_{r(pp)} = 1.13 \text{ V}$ and $V_{\text{DC}} = 14.3 \text{ V}$.
 (c) Explain the working principle of the PNP and NPN transistors.
- 08 (a) Describe the conditions that produce cutoff and saturation in the transistor switch operation.
 (b) Where is the Q-point for a class B amplifier? Explain the purpose of the push-pull configuration for class B operations.
 (c) Explain the operation of the Field Effect Transistor.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

PHYSIOLOGY.

Saturday the 04th May, 2019.

Time. 02:00 pm to 05:00 pm

Maximum marks. 150

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

Note-II.

Attempt any Five Questions. All Questions carry equal marks.

- 01 Describe the role of protein binding in the transport of thyroid hormones and peripheral metabolism.
- 02 Describe the structure and function of the conduction system of the heart and compare the action potentials in each part.
- 03 Describe the effects of exercise on ventilation and O₂ exchange in the tissues and its tolerance.
- 04 Discuss tubular reabsorption and secretion mechanism and mention especially reabsorption of Na⁺ and glucose.
- 05 Name the three catecholamines secreted by the adrenal medulla and summarize their biosynthesis, metabolism and function.
- 06 Outline the role of chromosomes, hormones, and related factors in sex determination and development.
- 07 Explain endocrine and exocrine glands. Describe the Hormones of anterior pituitary gland.
- 08 Write short notes any **Three** of the following:
 - (a) Lung Volumes.
 - (b) Prolactin Secretion.
 - (c) Fatty Acid Oxidation & Synthesis.
 - (d) Cardiac Cycle.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

POLITICAL SCIENCE.

Sunday the 28th April, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

Note-II.

**Attempt any Five Questions, selecting Two Questions from each Section.
All Questions carry equal marks.**

Question No.

SECTION-I

- 01 “State exists for the sake of good life and not for the sake of life only” (Aristotle). Highlight the responsibilities of State to provide basic necessities to its citizens in the light of above statement.
- 02 Briefly discuss checks and balances system in USA. How it can be effectively implemented in Pakistan?
- 03 SAARC was formed to enhance the regional cooperation in South Asia, but the Indian role has badly disturbed its performance and effectiveness. Discuss the statement with suggested measures.
- 04 Write a detailed note on the powers and functions of National Peoples’ Congress of China. Does it provide democratic rights to its citizens?

SECTION-II

- 05 Pakistan has got diplomatic successes in her recent tensions with India which show its political achievements at global level. Comment.
- 06 Do you agree that the lack of political participation by educated people creates weak democracies? Give your answer with special focus on the developing countries.
- 07 What is public opinion? How far it affects the policy making process in developed states? Support your answer empirically.
- 08 What were the Core objectives of Basic Democracies System introduced by Ayub Khan?

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

SOCIOLOGY

Thursday the 25th April, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

Note-II. Attempt any Five Questions. All Questions carry equal marks.

Question No.

- 01 Define the term “Social Problem” and discuss Crime as a Social Problem?
- 02 “Education is a major source of social mobility in contemporary society”. Explain with suitable examples.
- 03 Despite gains from the women’s movement and state policy of women empowerment, gender equality is far from achieved. Identify three major challenges that prevent this goal from being reached.
- 04 Assess the Role of Mass Media as an agent of social change.
- 05 ‘The aim of Sociological Research should be to help disadvantaged groups in society’. Explain and assess this view.
- 06 In recent times there has been an increase in suicide attempts among young people in the world. What are the reasons in your opinion?
- 07 If education moulds personality and leads to tolerant outlook then why do we see incidents of extremism in educational institutions? What mechanism should be made to overcome the menace of Extremism?
- 08 Prisons in Pakistan are becoming ‘breeding grounds’ for increasing criminality & militancy in the country, where prisoners are more likely to return to crime than to abandon it.- Discuss it with reference to conditions of prisons in Pakistan.

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

S T A T I S T I C S.

Friday the 03rd May, 2019.

Time. 03:00 pm to 06:00 pm

Maximum marks. 150

Note-I.

- (xxiii) Please attempt all parts of each Question at one place clearly indicating Question No.
(xxiv) All the blank pages of Answer Copy must be crossed.
(xxv) Extra attempted question(s) will not be assessed.

Note-II.

Attempt any Five Questions. All Questions carry equal marks.

Only Scientific Calculator is allowed. Use of Programmable Calculator is strictly prohibited.

Question No.

- 01 (a) Explain the term Statistics. How it makes effective decisions in all functional areas of different management systems.
(b) Draw a Multiple Bar chart for the given data showing the number of students in recognized business Institute.

Year	BBA	BCS	Total
2009	345	150	495
2010	380	200	580
2011	450	250	700
2012	500	275	775
2013	600	300	900

- 02 (a) Explain the difference between the following with examples:
(i) Null Hypothesis and Alternative Hypothesis.
(ii) Descriptive Statistics and Inferential Statistics.
(iii) Type I and Type II error.
(iv) Absolute and Relative Measure of Dispersion.
(v) Range and Coefficient of Variation.
(b) The life length of a human is approximately normally distributed with a mean 58 years and a standard deviation of 17.5 years. Find out the chance that if a human is to be selected of 65 years, how close he/she is to death?

- 03 (a) Describe the Time Reversal Test and Factor Reversal Test with suitable examples.
(b) Show that Marshal Edgeworth and Fisher's Ideal Index satisfy the time reversal and factor reversal test for the following data.

Commodity	Base Year		Current Year.	
	Price P ₀	Quantity q ₀	Price P ₁	Quantity q ₁
A	7	70	5	49
B	5	27	7	28
C	10	35	9	29
D	9	50	4	42
E	3	16	10	25

P.T.O.

- 04 (a) What is the importance of representation of data? With how many ways it helps a researcher to develop the future strategies?
 (b) Construct a Frequency Polygon and Ogive curve from the following data:
 Marks: 0-9, 10-19, 20-29, 30-39, 40-49, 50-59, 60-69, 70-79
 No. of Students: 2 3 8 24 27 40 11 5
- 05 (a) In a hospital there are 4 Cancer, 10 Heart and 3 Kidney patients. Three patients are selected at Random. Find the probability that all 3 randomly selected patients having separate disease.
 (b) Draw the following Venn Diagram.
 (i) Portraying four Mutually Exclusive Events.
 (ii) Portraying four Non Mutually Exclusive Events.
- 06 (a) List the Basic Important properties of the following:
 (i) Standard normal distribution. (ii) Binomial Probability distribution.
 (iii) t-curve and t-distribution. (iv) Chi-square distribution.
- (b) The number of items of certain production important into the United Kingdom is given below in thousands of units.
 Year: 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014
 Number: 170 210 188 98 83 131 205 182 90 92
 Year: 2015 2016 2017 2018
 Number: 141 183 135 80
- Calculate 3, 5 and 7 year moving averages for the above data.
- 07 (a) Explain the concept of an Index number. Discuss the main steps involved in the construction of index number. Also explain the types of index number.
 (b) The following table gives the production of Cotton cloth (in million meters) for Pakistan from 1954-1963.
 Year: 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963
 Production: 282 389 438 470 511 555 564 630 662 681
 Find out index number by taking:
 (i) 1954 as the base year.
 (ii) Average of 1958, 1959, 1960 as base.
- 08 (a) Following table displays data on age and price for a sample of 5 Nissan Zs. Determine the regression equation for the data and show the graph of regression equation and the data point.

Age (Year) X	2	4	5	6	7
Price (\$ 100) Y	169	103	89	66	48

- (b) What do you say about following digits? Which of the following numbers could not possibly be probabilities? Justify your answer of each:
 (i) $4/5$ (ii) $-8/3$ (iii) $5/2$ (iv) 100 (v) 0.00 (vi) $5/5$

SINDH PUBLIC SERVICE COMMISSION, HYDERABAD.

Combined Competitive Examination, 2019

ZOOLOGY

Thursday the 02nd May, 2019.

Time. 09:00 am to 12:00 Noon

Maximum marks. 150

=====

Note-I.

- (i) Please attempt all parts of each Question at one place clearly indicating Question No.
- (ii) All the blank pages of Answer Copy must be crossed.
- (iii) Extra attempted question(s) will not be assessed.

=====

**Note-II. Attempt any Five Questions. All Questions carry equal marks.
Draw Labeled diagram where ever necessary.**

=====

Question No.

- 01 Why proteins are ranked as polypeptide molecules? Classify proteins as per their chemical nature with examples of each category.
- 02 What do you know about leading and lagging DNA templates? Give experimental evidence for semi-conservative DNA replication model.
- 03 Why animals are assigned scientific names? Write a comprehensive note on binomial nomenclature.
- 04 Write a comparative note on transportation of birds and mammals.
- 05 What is sleeping sickness, how is it caused? Describe its transmission and pathogenesis.
- 06 Define Pollutant. What do you know about heavy metals Pollution?
- 07 Give an account of characters of Mollusca; classify it up to orders and give examples.
- 08 What are the different receptor organs found in mammals and classify any three on the basis of source of stimulus.
