ANEES HUSSAIN

EXCELLENCE IN EDUCATION SINCE 1989

CLASS: XII| SUBJECT: URDU | PREPARATION PAPER 2023 - 2024 | PREPARED BY: FACULTY OF URDU

مطالعاتی پرچہ اُردو لازمی برائے جماعت انٹر سال دوم

حصہ ''الف'' کثیر الانتخابی سوالات   (۲۰)

سوال نمبر۱   (اس حصہ میں سوالات کا انتخاب پورے نصاب سے کیا جائے گا)   (۲۰)

حصہ ''ب'' مختصر سوالات کے جوابات   (۴۰)

سوال نمبر۲: دیئے گئے غزلیات کے اشعار کی تشریح شاعر کے حوالے اور مختصر تعارف کے ساتھ کیجئے۔(۱۰)

*میر تقی میرؔ   * مرزا غالبؔ

*خواجہ میر دردؔ   *مومن خان مومنؔ

سوال نمبر ۳: دیئے گئے اسباق کے اقتباسات کی تشریح مصنف کے حوالے اور مختصر تعارف کے ساتھ کیجئے ۔   (۱۰)

*سیرت محمد ی کی جامعیت   * خوش طبعی

*قحط الرجال   * مولانا حسرت موہانی

سوال نمبر۳: درج ذیل اہم نظموں کا مرکزی خیال شاعر کے مختصر تعارف کے ساتھ تحریر کیجئے۔(۱۰)

* حضرت فاطمہ الزہراکی رخصتی   * چاند اور ستارے

* بدلی کا چاند   * دو بہرے شناساوں کی ملاقات

یا

دیے گئے نظموں کے بند کی تشریح شاعر اور نظم کے حوالے کے ساتھ کیجیے۔

* کتبہ کون لکھے گا   * بدلی کا چاند *

* حضرت فاطمہ الزہراکی رخصتی   چاند اور ستارے

سوال نمبر ۵: دیئے گئے اہم اسباق کا خلاصہ اور مصنف کا مختصر تعارف کیجئے۔   (۱۰)

*زمین   *نئے دور کی لڑکی

* سحر ہونے تک   *چار مالدار

حصہ ''ج'' (بیانیہ جواب کےسوالات)   (۴۰)

سوال نمبر۶: مندرجہ ذیل شاعر کے کلام کی خصوصیات پر تبصرہ   کیجئے: (۲۰)

*میر تقی میرؔ   * مرزا غالبؔ

*خواجہ میر دردؔ   *علامہ اقبال ؔ

سوال نمبر۷: مندرجہ ذیل نثر نگار کے طرزِ تحریر کی خصوصیات پر تبصرہ   کیجئے: (۲۰)

*سید سلیمان ندوی   * مولوی عبدالحق

* محمدحسین آزاد   * رشید احمد صدیقی

یا

مندرجہ ذیل میں سے کسی ایک عنوان پر مضمون لکھیے۔

* کشمیرپاکستان کی شہ رگ ہے   *تن درستی ہزار نعمت ہے

*اقتصادی راہداری وقت کی اہم ضرورت   *امن عالم اور احترام انسانیت

ANEES HUSSAIN
EXCELLENCE IN EDUCATION SINCE 1989

CLASS: XII | SUBJECT: ENGLISH | PREPARATION PAPER 2023 - 2024 | PREPARED BY: FACULTY OF ENGLISH

POEM SECTION
SEVEN AGES OF MAN

i.   What is the philosophy behind the poem? / What is the message of the poem, 'Seven Ages of Men?

ii.   According to William Shakespeare, how does man appear in the first stage and second stage?

iii.   Give the description of the fourth and fifth stages?

iv.   How does man behave in sixth and seventh stages?

v.   Describe last two stages of man's life.

vi.   How does man play the role of a lover in stage three?

A MAN OF LIFE UPRIGHT

i.   What are the qualities of an upright man?

ii.   How does an upright man consider this world?

iii.   Why does an upright man not require any armour for defence?

iv.   What is the central idea of the poem?

SAMSON AGONISTES

i.   Who was Samson and how was he made captive? What do you know about Samson's super natural powers?

ii.   What did Samson request his guide during intermission?

iii.   How did Samson take revenge upon his enemies?

iv.   What do you know about Samson's super natural powers?

v.   Who were the people assembled in the great temble?

AN ESSAY ON MAN

i.   Why does God hide future from creatures?

ii.   What are the two gifts given by God according to Pope?

iii.   What does Pope say about death?

iv.   What is the main idea of the poem?

v.   Why does the poet think that man's soul is uneasy and confined from home?

THE SOLITARY REAPER

i.   What inspired the poet to compose the poem, 'The Solitary Reaper'? Who was the solitary reaper and what was she doing?

ii.   How does William .W. Worth compare the song of the solitary reaper with two birds?

iii.   What does the poet mean by saying, 'Will no one tell me what she sings'?

iv.   'Stop here or gently pass' who is the speaker, to whom the words are spoken and why?

LINES FROM ULYSSES

i.   Who was Ulysses? How did he inspire/address his mariners to go on last voyage?

ii.   Describe, 'Made weak by time and fate but strong in will…….'

iii.   Who was Achilles? How does the poet present the concept of Greek paradise in the poem?

iv.   How does Ulysses symbolize the human spirit as its bravest and strongest?
v.   What is the message of the poem?
vi.   Who was Achilles? How was he killed?

LINES FROM ENDYMION

i.   Give the list of the things that Keats finds most beautiful. OR What are the different shapes or shapes of beauty that give joy according to John Keats? OR What things of beauty did Keats find the most inspiring?
ii.   What is the main idea of the poem?
iii.   Describe the beginning lines of the poem. **'A thing of beauty is a joy forever, its loveliness increases and ….'** Or why does the poet think that loveliness of beauty increases with time?
iv.   Who was Endymion? Why did the poet take him as the central figure of his poem?

MUSIC WHEN SOFT VOICES DIE

i.   How does Shelley illustrate that beauty is eternal?
ii.   How do the sweet flowers live even after they become dried?
iii.   How does Shelley express his love for his beloved in the poem?
iv.   Explain the lines. **'And so thy thoughts, when thou art gone, love itself shall slumber on'.**
v.   What is the theme of the poem?

SAY NOT THE STUGGLE NAUGHT AVAILETH

i.   Why does the poet advise that say not the struggle naught availeth?
ii.   What are the examples given by the poet/ message/theme in the poem?
iii.   Say not the struggle….availeth is the poem of hope. Discuss.
iv.   "If hopes were dupes, fears may be liars". Explain the line your own words.
v.   What do the 'Tired Waves' symbolize in the poem?

THE LOST STAR

i.   What is the message/idea of the poem?
ii.   Why does the poet feel that he has become a different man as compared to that of his early life?
iii.   Why does the poet say that our forefathers were superior to all the creatures in the poem?

AN ELEGY WRITTEN ON THE COUNTRY CHURCHYARD

i.   What is the central idea of the poem?

PROSE SECTION
TWENTY MINUTES ………OAKENTUBB

i.   Describe the scene in the railway waiting room?
ii.   Give the description of the man?
iii.   What are the views of the lady about casual meetings?
iv.   Why did Mrs. Oakentubb spend 18 months in prison?
v.   What purpose did the meeting with the Korean girl give to the gentleman?
vi.   Explain the importance of the label and why did she hide it?
vii.   Why did the man kill Mrs. Oakentubb? OR What motive has the man for murdering Mrs. Oakentubb?
viii.   Is the woman cleverer than the man in the play?

REFLECTIONS ON THE RE AWAKENING EAST

i.   What is the insularity of the European historians to term the century's dark ages?
ii.   What is Bertrand Russell's advice to the Asian countries? OR What should Asian countries accept from the west and should they reject??
iii.   What reasons does Russell give for his opinions that the Asian nations will not find it hard to keep their independence?
iv.   Why is it useless to resist industrialization?
v.   What is the most sinister application of scientific techniques?
vi.   Why is Communism most virulent and most modern form of western imperialism?

PAKISTAN AND THE MODERN WORLD

i.   Briefly give reasons why Muslims desired not to continue living in an undivided India?
ii.   What main differences did Liaquat Ali Khan highlight in his speech between Hindus and Muslims?
iii.   What is the real meaning of freedom?
iv.   What is our first duty as citizen?
v.   'Our administrative machinery had to be built up from the scratch?
vi.   How did Liaquat Ali Khan describe the similarity between the young democracy in Pakistan and the struggle for independence in America in his speech?

THE DAY THE DAM BROKE

I.   Where and how did the panic start in the Columbus city?
II.   How did the panic start in the cinema?
III.   How did Thurber's mother cope up with the situation?
IV.   Why did Dr. Mallory think that the flood waters were about to engulf him?
V.   How long the panic did last and how was the order restored?
VI.   What can we gather about Thurber's grandfather's age, physique and mental condition?

THE WORLD AS I SEE IT

i.   What is Einstein's attitude towards leadership/democracy?
ii.   What are the political ideals of Einstein?
iii.   On what grounds does Einstein put the individual before the state?
iv.   What is Einstein's attitude towards war?
v.   What is the attitude of Einstein towards property, outward success and luxury?
vi.   What is the attitude of Einstein towards class differences and plain living?
vii.   What has been an inspiration for Einstein?

THE DEVOTED FRIEND

i.   What justification did the Miller give for not visiting Hans in winter? OR What are the ideas of Miller when people are in trouble? OR When do we first suspect that the Miller was fair-weather friend?
ii.   Why was Hans unable to look after his garden?
iii.   Which act of Miller caused Hans to lose his life?
iv.   Give a brief sketch of Hans, the gardener?
v.   How can the story of Han and the Miller be applicable to the water rat?

ACT III OF SILVER BOX

i.   What crime had been committed in the play?

ii.   What led the constable to arrest and charge James Jones as well as Jane Jones?

iii.   What picture has the author presented in the play?

iv.   What is the role of Mr. Barthwick in the play?

v.   Who was Marlowe? What facts did Marlowe's evidence establish in the play?

vi.   Do you think justice was done with jones family?

NOVEL (THE PRISONER OF ZENDA)

1. State three qualities of Rudolf Rassendyll?

2. 'You are nine and twenty and you have done nothing.' To whom does Lady Rose state and what does she mean by the above remark?

3. When and where did the two Rudolf meet the first time?

4. What led Rassendyll to impersonate the king? OR Who persuades Rassendyll to impersonate the king? OR What steps were taken by Col. Sapt to save the throne?

5. What does Fritz Von Tarlenheim mean by saying that Heaven does not always make the right man king?

6. How did the real king become captive? OR kidnapped and why?

7. Describe three qualities of princess Flavia?

8. What is ball? Why was it arranged?

9. Describe the incident of tea-table.

10. Describe the incident of summer house. OR Why did Lady Mauban write a letter to Rassendyll? OR Summer house OR Why did lady Mauban turn against Micheal? OR help Rassendyll?

11. What were the characteristics of Micheal?

12. Who killed Black Micheal and why?

13. Describe morganatic marriage.

14. How does Rassendyll behave as the king when he takes part in the procession before the coronation?

15. Do you consider Rudolf Elphberg the best king?

16. 'Say I am Christian or I am jealous. My God! Shall I see him marry her? Discuss the above statement with reference to the context?

17. Why did Madam de Mauban not want Micheal ascend the throne?

18. Who were the six and why were they appointed?

19. Rupert is dashing dare davil. Comment.

20. Compare Elphberg and Rassendyll.

21. Why could Black Michael not expose the reality of Rassendyll?

22. 'Heaven does not always make the right men kings.' Discuss the remarks

SUB-SECTION IV (GRAMMAR)

1. Use the given homophones in your own words.   (All that were practiced)

2. Use any three Phrasal verbs in your sentence.   (All that were practiced)

3. Match the meaning of the following words.   (All that were practiced)

SECTION 'C'

(DETAILED QUESTIONS AND ANSWERS)

Note: Answer all the questions from this section, all questions carry equal marks.
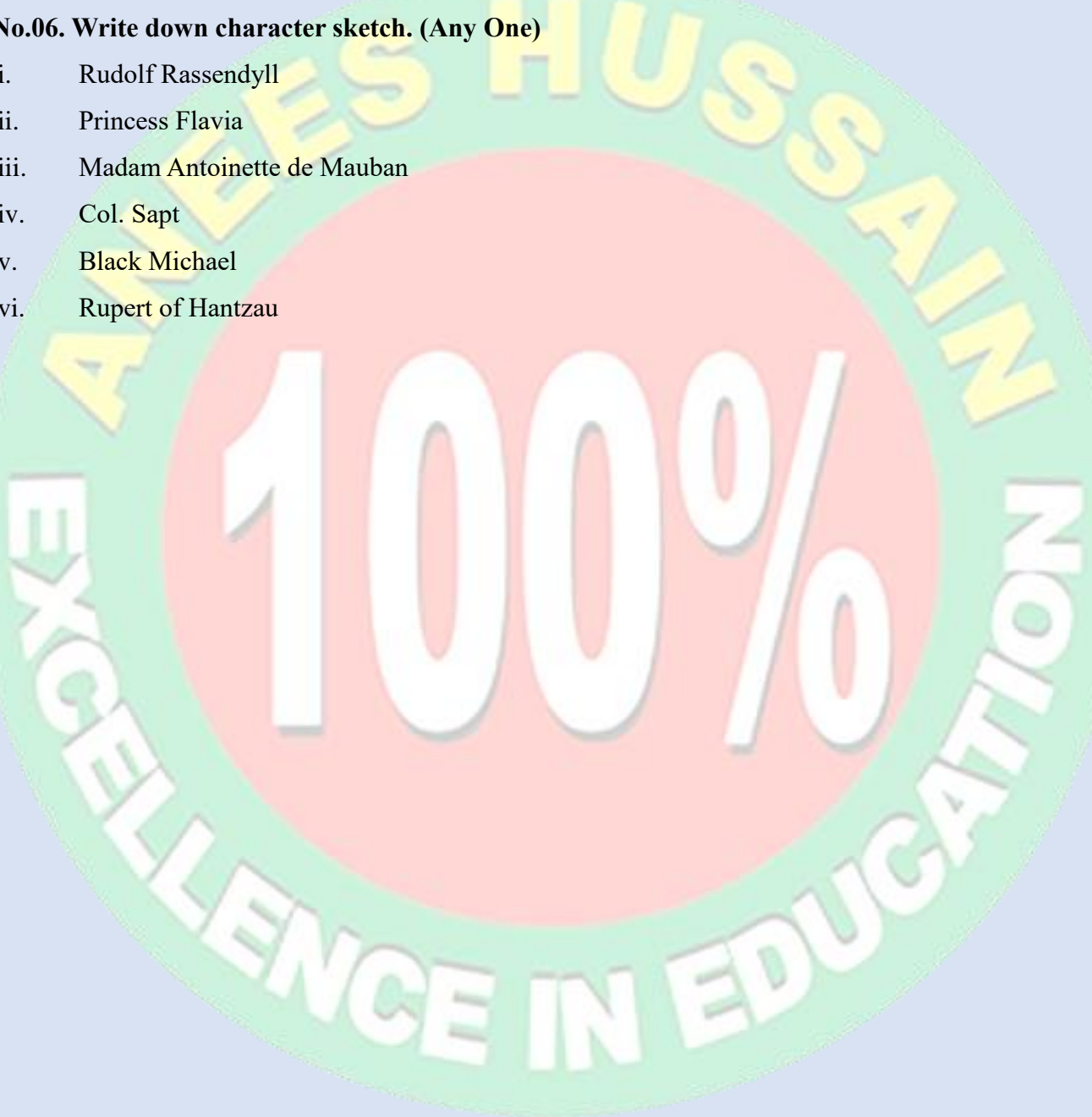
Q. No. 03: Direct and indirect   (All types)

Q. No. 04: Write an Essay on any one of the topic

a)   Corruption (causes and effects)   b)   An interesting Match of PSL 2024

c)   Environmental Pollution   d)   Role of Social Media

e)   Inflation   f)   Street Crimes

g)   Violence on Muslims

Q. No.05. Read the following passage and answer the question of above passage.

Q. No.06. Write down character sketch. (Any One)

     i.   Rudolf Rassendyll

     ii.   Princess Flavia

     iii.   Madam Antoinette de Mauban

     iv.   Col. Sapt

     v.   Black Michael

     vi.   Rupert of Hantzau

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CLASS: XII | SUBJECT: PAKISTAN STUDIES | PREPARATION PAPER 2023 – 2024 | PREPARED BY: FACULTY OF PAK. STUDIES

Short Questions

Q#1: Describe the social condition of the sub-continent before the advent of Islam and Define four difference between Hindu & Muslim Society.

Q#2: Define Objectives of Khilafat Movement & 4 points from 14 Points of Quaid e Azam.

Q#3: Define religious influence of Islam on Hindu Society & Role Of Sindh in Pakistan movement.

Q#4: Describe Two Nation Theory & Lucknow Pact.

Q#5: Define Ideology of Pakistan & objectives of AIML.

Q#6: Define Indus Basin Treaty & Islamic Provision of 1973 Constitution.

Q#7: Objective Resolution & Indus Valley civilization.

Q#8: Define Four Differences between urban and rural Society & Cultural heritage of Pakistan.

Q#9: Define any one Regional Language of Pakistan & 4 agricultural problems of Pakistan.

Q#10: Describe the importance of Agriculture in the economic development of Pakistan & two Natural Resources of Pakistan.

Q#11: Define Industrial development of Pakistan & Objectives of UNO.

Q#12: Write a Note on Non Alignment Movement (NAM) & relation of Pakistan with China & India

Q#13: Name member countries of SAARC & Four international organization in which Pakistan is an Active member.

Long Questions

Q#1: Write down causes of demand For Pakistan?

Q#2: Write down important political events which took place between 1940 to 1047?

Q#3: Define Sir Syed's educational services (Aligarh Movement)

Q#4: Define Initial Problems of Pakistan?

Q#5: Describe importance of Geographical location of Pakistan?

Q#6: Define Culture and basic features of Pakistani Culture / Pakistani Society.

Q#7: Describe Urdu as a National symbol of integrity.

Q#8: Define Foreign Policy Of Pakistan.

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CLASS: XII | SUBJECT: ACCOUNTING | PREPARATION PAPER 2023 – 2024 | BY: SIR FAHAD AZIZ & SIR ALI

1. **SINGLE ENTRY:**

   2021 (Q2), 2018 (Q2), 2015 (Q3), 2012 (P) (Q2), 2007 (Q1)

2. **NON PROFIT ORGANIZATION:**

   2022 (Q6), 2018 (Q3), 2016 (Q3), 2013 (P) (Q8), 2007 (Q8)

3. **ISSUE OF SHARES AND DEBENTURES:**

   2019 (Q8), 2014 (P) (Q7), 2011 (R) (Q6), 2007 (Q6), 2005 (Q5)

4. **RETAIN EARNING:**

   2022 (Q2), 2019 (Q5), 2014 (R) (Q8), 2013 (R) (Q8)

5. **DEPRECIATI0N:**

   2022 (Q9), 2019 (Q9), 2017 (Q9 (c)), 2015 (Q9 (a)), 2013 (R) (Q9 (a & b)), 2011 (R) (Q9 (a))

6. **PARTNERSHIP FORMATION:**

   2017 (Q4), 2014 (R) (Q3), 2010 (Q4), 1998 (Q3)

7. **PARTNERSHIP DISTRIBUTION OF PROFIT & LOSS:**

   2019 (Q7), 2016 (Q6), 2015 (Q8), 2014 (R) (Q4), 2010 (Q5)

8. **PARTNERSHIP ADMISSION:**

   2021 (Q5), 2014 (P) (Q5), 2012 (P) (Q4), 2010 (Q7), 2008 (Q4)

9. **PARTNERSHIP RETIREMENT:**

   2019 (Q4), 2017 (Q5), 2015 (Q7), 2009 (Q6), 2003 (P) (Q3)

10. **PARTNERSHIP DISSOLUTION:**

    2019 (Q6), 2016 (Q4), 2015 (Q4), 2012 (R) (Q6), 2012 (P) (Q6), 2002 (R) (Q3)

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EXCELLENCE IN EDUCATION SINCE 1989

CLASS: XII| SUBJECT: BANKING | PREPARATION PAPER 2023 – 2024| BY: SIR KASHIF, SIR MANSOOR & SIR REHAN

Section 'B'

1.   Definition of bank (2013P)
2.   Types of bank by function and by ownership. (2008-10PR-12R-14PR-15PR-17PR-22)
3.   Departments of banks.
4.   Types of bank accounts. (2011R-13PR-14P-16PR-18-21-22)
5.   Methods of opening a bank account.(2013P-14P)
6.   Definition, essentials, types and parties of cheques.
7.   Definition, types and parties of promissory notes.
8.   Define crossing of cheques and its different types.
9.   Endorsement and its kinds (2012 PR)
10. Secured and un secured loans
11. Kinds of e-banking.
12. How to improve balance of payment. (2012/R)
13. Definition of Bank, Letter of credit. Foreign exchange (13R-19)
14. Advantages and disadvantages of credit card, debit card, e-banking, ATM. (13R)
15. Short notes on: NIT, PICIC, IDBP, IMF, World Bank.
16. Factors determining cash reserves { till cash}
17. Credit management.
18. Define rate of exchange and factors effect on rate of exchange. (2010-13-14P-15)
19. Kinds of securities.
20. Specimen of cheque, bill of exchange and promissory note.
21. Difference between
Bill of exchange and promissory notes.(2018,22)   Promissory notes and cheques.(14P-16-17-21-22)

Balance of payment and Balance of Trade (2016-21-22)   Schedule and non-Schedule banks

Section 'C'

1.   Primary and secondary functions of commercial bank. (2010-12P-13P-14PR-17-19-21)
2.   Functions of central bank.(2010-11P-12-13-14-15-16-22)
3.   Define credit control, its reasons and methods. (2010-12PR-13-14P-15-17-18-19)
4.   Define exchange rate its Determination & factors.(2010-11PR-13PR-14P-15-16-22)
5.   Definition, types and parties to bill of exchange.(2011P-2016)
6.   Principle of using of bank's funds. (2010-12-13-14-18-22)
7.   Using of bank funds. (2013P-19)
8.   Precautions in lending loans. And Sources of bank funds.
9.   How a cheques is dishonored.(2011-09-18)
10. Definitions of exchange control its aims and devices.
11. Purchasing power parity theory. Its assumption and limitation.(2017)
12. Evolution of bank and its history. (2011-12-14P)
13. How does the banking system influence different sector of economy?(2014)
14. Define credit and credit instruments.(2009)
15. How do commercial bank create credits?(2015)

ANEES HUSSAIN

EXCELLENCE IN EDUCATION SINCE 1989

CLASS: XII| SUBJECT: COMMERCIAL GEOGRAPHY | PREPARATION PAPER 2023 – 2024| BY: SIR KASHIF, SIR MANSOOR & SIR REHAN

WORLD SECTION

1.   State the primary activities of human beings how the primary activities turned in to secondary activities?
2.   Define commercial activities and different types of commercial activities; also state the relationship between geographical environment and commercial activities?
3.   Explain the different kind of forest and their importance.
4.   Difference between economic and commercial geography and importance of commercial geography.
5.   What is mean by physical and nonphysical environment?
6.   Analyze the influence of river/climate/soil/minerals and location on human activities.
7.   Highlight the organic heap theory of agriculture.
8.   Kinds and role of steel industry for the development of a country.
9.   What are the physical, geographical and economic factors responsible for the wheat / rice sugarcane cultivation? Also state the major rice /Wheat exporting countries of the world?
10.   What Economical factors are responsible for the concentration of cotton textile industry, iron and steel industry in any area?
11.   Point out Steel/cotton textile/silk/iron industries countries in the world.
12.   Point out natural rubber/ industries countries in the world.
13.   State the importance of petroleum and also list the major petroleum producers of the world./ Middle East ?
14.   Define growth rate of population. How is it calculated?
15.   Factors necessary for the localization of an industry.
16.   State the theory of population, reasons for its density and the factors responsible for it?
17.   Give the critical analysis of Malthusian theory of population.
18.   Point out the populated and unpopulated areas of the world.
19.   Method of farming (Subsistence Agriculture /truck Farming/mechanize farming /shifting cultivation)
20.   Short note
    a.   Importance of information Media /Ecommerce
    b.   Suez / Panama Canal
    c.   International migration
    d.   OPEC.
    e.   Factors/causes of density of population.
    f.   Dry ports and Sea ports.
    g.   HDI and its range
    h.   Sources of edible oil.
    i.   Electronic Media
    j.   Fishing Grounds of World
    k.   Fertilizers, fertilizer's elements and their functions.
    l.   Importance of Uranium /Coal (producing Countries)

PAKISTAN SECTION

1.   Physical features of Pakistan.
2.   Economical and geographical importance of Pakistan with reference to its location.
3.   Climatic distribution (regions) of Pakistan.
4.   Effects of climate on life style and economic activity 0f people in Pakistan.
5.   Kinds and importance of forests in Pakistan?
6.   Industries in Pakistan which depends on forest.(resources obtain from forest)
7.   Factors which play basic role in soil formation?

8. Types of soil found in Pakistan.
9. Problem and their solution of irrigation in Pakistan.
10. Methods of irrigation adopted in Pakistan.
11. Importance of irrigation for the agricultural crops.
12. Role of agriculture in economic development of Pakistan.
13. Irrigation system of river Indus.
14. Mention on Maps barrages, climate region, Forest ,population and rivers
15. Problem and their solution of Agriculture in Pakistan.
16. Important crops of Pakistan (rabi & kharif)
17. Major rice/Wheat /Sugarcane/maize/cotton and tobacco producing areas of Pakistan.
18. Physical, Economical, Technical and other factors for different crops in Pakistan.
19. Economical, Technical and other factors for different industries in Pakistan.
20. Highlight the hydel, thermal and atomic power projects in Pakistan.
21. Discuss the regional density of population of Pakistan.
22. Causes of difference in the density of population in different areas of Pakistan.
        OR   Factors responsible for the uneven distribution of population in Pakistan
        OR   Causes of rapid growth of population in Pakistan.
23. What is meant by migration of population and in how many kinds can it be divided?
24. Analyses of working population of Pakistan and role of government to improve employment.
25. Short note.

a) Highways program of National highway authority (NHA)
b) Economic and social importance of air transport
c) Importance of KPT, Port Qasim and Gwadar port
d) Solar energy, wind energy and Bio gas
e) Pakistan Railway importance and problems.
f) Main junctions of Pakistan railway
g) Domestic and international flights route of PIA
h) motorways development
i) Indus water treaty
j) Doaba and Bar
k) Major industries of Pakistan.
l) CPEC
m) Dams and Barrages
n) Important roads(Karachi)

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EXCELLENCE IN EDUCATION SINCE 1989

CLASS: XII | SUBJECT: STATISTICS | PREPARATION PAPER 2023 – 2024 | BY: SIR BEHROZ & SIR ALI

SECTION: "A "
(Multiple Choice Question)

Question no # 01

This section contain 10 M.C.Q's each carries 01 mark.

(Whole syllabus should be studied thoroughly for the preparation of this section)

SECTION: "B"
(Short Answer Question)

Question no # 02

This section contain 08 part question out of which 05 part question required to answer each part question carries 04 marks.

1. **Introduction**
   - Define statistics and discuss the limitations
   - Difference between primary and secondary data
   - Difference between population and sample
   - Difference between discrete and continuous variable
   - Difference between quantitive and qualitative variable
   - Sources of collected primary and secondary data
   - Difference between descriptive and inferential statistics

2. **Presentation of data**
   - Construct frequency distribution
   - Mid-point
   - Class boundary
   - Relative frequency distribution
   - Cumulative frequency distribution

3. **Graphs and diagram :**
   - Histogram
   - Histogram + frequency polygon
   - Frequency polygon
   - Frequency curve
   - Simple bar diagram
   - Multiple bar diagram
   - Pie chart

4. **Averages**
   - Mean , median , mode (ungrouped data)
   - Combined mean
   - Excluded and included mean
   - Deviation of mean : $\sum (x – x) = 0$

5. **Index number**
   - Chain base year
   - Index number
   - Link relatives
   - Aggregation method

6. **Probability theory**
   - Fair coin tossed (2 times , 3 times ,4 times)
   - Permutation
   - Dice rolled (2 times)

SECTION: "C "
(Detailed Answer Question)

Question # 03

This section contain 03 questions and required to answer 02 question.

1. **Averages**
   - mean , median , mode (grouped data)
2. **Index number**
   - Laspeyre's , paasche's and fisher ideal formulae
3. **Probability theory**
   - Fair coin tossed (sample space , events)
   - Dice rolled (sample space , events)
   - Bags balls contain (sample space , events)

CHAPTER # 01

INTRODUCTION:

- Define statistics and discuss the limitations
- Difference between primary and secondary data
- Difference between population and sample
- Difference between discrete and continuous variable
- Difference between quantitative and qualitative variable
- Sources of collected primary and secondary data
- Difference between descriptive and inferential statistics

CHAPTER # 02

PRESENTATION OF DATA:

1. **The following data give the record of wages of 30 workers in a factory :**

127	129	131	122	112	114
137	114	126	129	124	126
134	128	121	129	135	118
132	127	119	133	131	125
134	117	116	131	134	124

- Prepare a frequency distribution taking class intervals as 110 ---114, 115 ----119, 120 ---124 ...... etc.
- Find out the class limits or size

- Find out class boundary and mid-point
- Calculate the relative frequency
- Prepare cumulative frequency distribution.

2. **Given below are the hours that 25 men work for in a week :**

36.5	33.0	29.8	38.4	24.4
43.2	31.5	36.3	58.1	15.6
40.1	37.0	28.5	41.9	24.5
37.6	29.7	30.8	21.8	45.4
30.5	52.7	34.8	40.1	37.3

- Construct a frequency distribution taking 8 as the size of the class intervals with the first class interval as 13.0 ----- 20.9
- Find the class boundary and mid-point.
- Calculate the relative frequency
- Prepare cumulative frequency distribution

3. **Complete the following table :**

Class interval	Class boundary	Frequency	relative fre	Cumulative fre
0-----3	_____----3.5	_____	_____	_____
_____-----7	_____----7.5	14	_____	29
8------_____	7.5 ---_____	____	0.40	69
12----15	11.5----15.5	22	0.22	94
16----19	15.5 ----19.5	09	_____	_____
	Total	100		

CHAPTER # 03

GRAPHS AND DIAGRAMS

1. **Draw (a) histogram (b) frequency polygon (c) frequency curve for the following frequency distribution :**

Class Intervals	6-----11	12----17	18---23	24----29	30----35	36---41
Price	45	52	58	64	72	80

2. **Draw (a) pie chart (b) simple bar diagram for the following frequency distribution :**

Grade	A-1	A	B	C	D	E	F
Students	20	40	60	85	120	20	50

3. **Draw a histogram and a frequency polygon on the same graph for the following frequency distribution :**

Class intervals	5----9	10----14	15---19	20----24	25----29	30----34
Frequency	3	7	12	5	2	1

4. **Draw a pie chart to show the road accident in a certain city in the month of January, 2022.**

Types	Motorcycle	Buses	Cars	Trucks	Others
No. of accidents	46	22	14	18	20

CHAPTER # 04

AVERAGES

1. The mean of the data the values is 45.6 .find the mean if a value 30 is included in the data and also find the mean if a value 12 is excluded from this data.

2. The mean of 30 values is composed as 50 if an additional value 70 is to be added in the data. Find the changed value of mean.

3. The mean of the data of 24 values is 41.75 if a value is 36 is excluded from the data find the changed value of mean.

4. For the data 16 , 12, 14, 18 ,20 show that $\sum(x - x) = 0$

5. For the data given below find mean , median , mode :
   a. 36 , 41 , 27 , 32 , 29 ,38 , 39 , 43 , 55 , 42
   b. 7 , 7 , 2 , 3 , 4 ,2 , 7 , 9 , 31 , 11 , 18
   c. 5 , 4 , 3 , 1 , 2 , 6 , 8 , 17 , 12 , 13 , 17 , 21

6. **Find the mean ,median and mode for the following data and also comment about in distribution :**

Class interval	40----49	50----59	60------69	70-----79	80------89	90-------99
frequency	8	13	24	24	13	8

7. **Calculate the mean median and mode of the given distribution :**

Class interval	25.5---26.5	26.5---27.5	27.5---28.5	28.5---29.5	29.5---30.5	30.5---31.5
frequency	5	15	18	21	4	2

8. **For a certain distribution the mean was 40.4 and median 36 find the mode using the empirical formula.**

9. **For a certain distribution the mean was 57.6 and mode 54.3. Find the median using the empirical formula.**

CHAPTER # 05

INDEX NUMBERS

1. **The given table shows the prices of a commodity for 06 years. construct link relatives**

Years	2005	2006	2007	2008	2009	2010	2011
Price	45	52	58	64	72	80	88

2. **Construct simple index numbers for the following data taking 2009 as base year :**

Year	2009	2010	2011	2012	2013
Price	45	52	58	64	72

3. **For the given data. Calculate the following weighted index number for the year.**
   a. **Laspeyers price index number**
   b. **Paasches price index number**
   c. **Fisher ideal index number**

Commodity		2021		2022	
		Price	Quantity	Price	Quantity
i.	Sugar	32	5	45	4
ii.	Oil	120	4	150	3
iii.	,milk	42	10	48	8
iv.	Mutton	220	12	350	7

4. **Calculate fisher price index for 2022 for the following data :**

Commodity		Quantity		Price	
		2021	2022	2021	2022
i.	Wheat	69	75	740	810
ii.	Rice	31	42	950	1000
iii.	Gram	45	36	75	60

CHAPTER # 06

PROBABILITY THEORY

1. **From a batch consulting of 05 boys and 6 girls a group of 5 students is to selected. how many combinations can be formed of :**
    a. 3 boys and 2 girls   b. 2 boys and 3 girls   c. 4 boys and 1 girl
2. **Find the permutations of the following letters of the words:**
    - KARACHI
    - PROFESSIONAL
    - CELL PHONE
    - SUN FLOWER
    - PAKISTAN
    - STATISTICS
3. **If a fair coin is tossed three times :**
    a. Sample space with tree diagram
    b. What is the probability of getting three heads?
    c. What is the probability of getting 2 heads?
    d. What is the probability of getting at most one tail?
    e. What is the probability of getting at least 2 tails?
    f. What is the probability of getting at least one head?
4. **Two dice are thrown simultaneously**
    a. Sample space
    b. What is the probability of getting a total 5?
    c. What is the probability of getting a total 7?
    d. What is the probability of getting a total greater then 8
    e. What is the probability of getting the same number?
    f. What is the probability of getting a total of the dots is an even number?
    g. What is the probability og getting a total of the dots is an odd numbers?
    h. What is the probability of getting a total os the dots is at least 9?
5. **A box contain 5 blue and 8 green balls if two balls are selected at random from this box , what is the probability that they are :**
    a. Both blue
    b. Both green
    c. Blue and green
6. **From a bag contain 5 black, 3 red and 2 green balls. 4 balls are drawn at random. find the probability of getting :**
    a. 2 black balls , 1 red ball and 1 green ball
    b. 2 black ball and 2 red balls
    c. 4 black balls

Important Formulae

	Formulae		Formulae
Range		**Mean (group)**	
Width/size		**Median (group**	

Mid-point		**Median (ungroup)**	
Relative fre		**Mode (group)**	
Class boundary		**Empirical formula**	
Angle of sec		**Lapser price**	
Mean (ungroup		**Paashes price**	
Combination			

<u>Best of luck for your examination</u>