

**DHAKA COACHING CENTRE**

Karimabad Campus: 36826389, 36826381 Gulshan Campus: 34987386, 34812375

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**MID TERM EXAMINATION 2016**

Paper: Zoology  
Class: XII A-B-C

Max. Marks: 09  
Time: 15 Minutes

**SECTION "A" (MULTIPLE CHOICE QUESTIONS)**

**Q1: Choose the correct answer for each from the given options:**

1. Liver Stores vitamins like  
\* C,D,E                      \* A,E,K                      \* A,B,D                      \* Vitamin B only
2. The Vasa recta are the arteries that run parallel to the  
\* Proximal tubule        \* Collecting duct        \* Loop of Henle        \* Distal tubule
3. The longest cell in the Animal body is  
\* Osteocytes              \* Nephrons              \* Neurons              \* Red blood cell
4. Myelin sheath is the covering of  
\* Blood vessel              \* Muscle              \* Axons              \* Bone cell
5. ADH increases the absorption of  
\* Solutes                      \* Water                      \* Sodium only              \* Urea only
6. The other name of antidiuretic hormone is  
\* Vasopressin              \* Aldosterone              \* Cholesterol              \* Oxytocin
7. The amount of water in Urine is  
\* 60%                      \* 70%                      \* 95%                      \* 15%
8. The cold blooded animals are known as  
\* Homoiotherms        \* Poiklotherms        \* Vertebrates        \* Invertebrates
9. Immoveable or fixed joint are present in  
\* Skull                      \* Hip                      \* Pelvis                      \* Tibia
10. Swollen, painful and immovable joint are known as  
\* Sciatica                      \* Spondylosis              \* Arthritis                      \* Weakness of joint
11. The osteoporosis in female related to  
\* Aldosterone              \* Testosterone              \* Progesterone              \* Estrogen
12. The nutritional deficiency of vitamin D in children is known as  
\* Osteoporosis              \* Arthritis                      \* Rickets                      \* Spondylosis
13. In ball and socket joint, the friction of two bones is reduced by  
\* Pericardial fluid        \* Synovial fluid        \* Mucid                      \* Elastin
14. The plasma membrane of muscle is known as  
\* Muscle fibre              \* Myofibril                      \* Sarcolemma              \* Myofilament
15. Degeneration of neuron in basal ganglia of brain lead to  
\* Alzheimer's disease \* Parkinson's disease \* Epilepsy                      \* Psychosis
16. AH of them produces by ant pituitary gland except  
\* FSH                      \* TSH                      \* Thyroid hormone        \* ACTH
17. Involuntary & striated muscles are  
\* Cardiac muscles        \* Skeletal muscles        \* Smooth muscles        \* Muscle of ureter
18. Bone destroying cell are called  
\* Osteoblast                      \* Chondrocytes              \* Osteocyte                      \* Osteoclast

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Paper: Zoology  
Class: XII A-B-C

Max. Marks: 36  
Time: 1 Hour 45 Minutes

**SECTION "B" (SHORT ANSWER QUESTIONS)**

**Note: Answer eleven part in all. Select six from Reasoning Question and five from Non-Reasoning Question. (22)**

**Q2a. Reasoning Questions:**

- i. How live work as an homeostatic organ?
- ii. Why pituitary gland was called master gland?
- iii. What is the basic reason that, cockroach, earthworm and planeria excrete different type of excretory products?
- iv. How does muscles become fatigued ?
- v. How does bones help in osmoregulation under negative feedback influence?
- vi. Why cushning's syndrome caused obesity and diabetes?
- vii. What is the reason to we call, locomotion of jelly fish is "jet Propulsion"?
- viii. How exoskeleton restricted the growth and locomotion in snail but not in cockroach?

**Q2b. Reasoning Questions:**

- ix. Described the osmoregulation in marine animals.
- x. Write a note on Kidney problems?
- xi. Describe Disc slip OR Arthiritus OR Spondolysis.
- xii. Write about Alzheimer's OR Parkinson's Disease.
- xiii. Define joints ? write its types and give the name & function of different types moveable joints.
- xiv. Described the structure & function of encapsulated receptors?
- xv. Define the following:  
a) Poikilotherms    b) Pyrexia    c) Missle substances    d) Pons    e) Dorsal Root

**SECTION "C" (DETAILED – ANSWER QUESTIONS)**

**Note: Answer any two questions in all. All questions carry equal marks. (14)**

- Q3. What is nephron? With the help of labeled diagram explain the structure and regulatory function of nephron (Kidney).
- Q4. Define Endotherms? Described in detailed how endotherms maintained their body's temperature during cold condition?
- Q5. Described the nerve impulses under:  
i) Resting membrane potential (RMP)    ii) Action potential

**OR**

How nerve impulse transmitted from one to another neurons?

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### MID TERM EXAMINATION 2015

Paper: Accounting  
Class: XII-A (Commerce)

Max. Marks: 100  
Time: 3 Hours

#### **Q1: PARTNERSHIP LIQUIDATION:**

Following is the condensed balance sheet of Ali, Tauseef & Salman Dream Studio:

Cash	Rs.172,000	liabilities	Rs.80,000
Other assets	Rs.340,000	Ali Capital	Rs.86,000
		Tauseef Capital	Rs.90,000
		Salman capital	Rs.256,000

The partners share profit & losses equally. They decided to liquidate their partnership business. Other assets are sold for Rs.75,000 & liabilities are paid off. All partners are solvent. Available cash was distributed.

**Required: Prepare Entries in general journal.**

#### **Q2: PARTNERSHIP DISTRIBUTION OF PROFIT & LOSS:**

Olly, Oggy & Jack are partners with capitals of Rs.210,000, Rs.150,000, & Rs.90,000 respectively. The partnership agreement provides that the partners shall receive salary: Olly, none, Oggy Rs.12,00 p.m., & Jack Rs.1000 p.m. the partners shall also be allowed 12% interest annually on their initial capital balances. Residual profit or loss is to be divided as Olly 50%, Oggy 30% & Jack 20%.

**Required: Prepare income distribution summary if the net income for the year is Rs.83,000.**

#### **Q3: Formation:**

Ali and Salman sole traders were doing business separately. On January 1<sup>st</sup> 2010 their balance sheets showed the following position

	<u>Ali</u>	<u>Salman</u>
Cash	12000	15000
A/Receivable	25000	30000
Merchandise Inventory	35000	10000
Office equipment	65000	45000
Depreciation: Office equipment	25000	12000
Allowance for bad debts	3000	2000
Accounts Payable	20000	28000

On January 1<sup>st</sup> 2010 they decided to form a partnership by merging their businesses.

**Ali & Salman decided that their capitals in the new partnership will be Rs. 120000 and Rs. 100000 respectively. They contributed the deficiency, if any, from their private funds.**

**Required:**

- a. Give the necessary entries in the general Journal of the newly formed of the newly formed partnership of Ali and Salman as on January 1<sup>st</sup> 2010
- b. Prepare a balance sheet of partnership firm as on January 1<sup>st</sup> 2010

**Q4: Depreciation:**

July 1,2001Anumta company purchased a equipment cost 100,000. It is estimated useful life of equipment 8 years and salvage value 20,000. Accounting year closed on December 31<sup>st</sup> each year

1. Compute depreciation expense by straight line method for the year 2001, 2002
2. Compute and record depreciation expense by reducing balance method @ 20% per annum for the year 2001 and 2002.

**Q5: 8 M/S Janab and sons purchase two machines on December 1, 2010**

Asset	Cost of Asset	Salvage value	Total hours and unit	Method
Equipment	Rs.440000	Rs. 40000	200000hours	Hour Method
Plant	Rs.600000	Rs.50000	250000units	Unit Method

**Required:**

Calculate and record depreciation under both method

During 2010, company used 1000 hours and 2011, 3500 hours.

During 2010, company produced 2000 units and 2011, 3600 units.

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**MID TERM EXAMINATION 2015**

Subject: Banking

Class: XII

Max Marks: 75

Time: 3 Hours

**Time: 20 Minutes**

**MCQs**

**Max Marks: 15**

Q1. Choose the correct answer for each from the given option:

- i. Bank has been originated from the world.  
a) Bancus                      b) Banque                      c) both                      d) branch
- ii. Which country is taken as the pioneer of banking?  
a) Italy                      b) Britain                      c) France                      d) America
- iii. According to the experts, word 'bank' is more closed to the world:  
a) Mintuo                      b) Banco                      c) Monte                      d) No one
- iv. Bank carries the business of:  
a) Interest                      b) give and take                      c) money                      d) no answer is correct
- v. Which aspect is compulsory to include in the definition of a bank?  
a) components                      b) functions                      c) both                      d) nature
- vi. What is the base of classification of modern banks?  
a) Structure                      b) Operation                      c) function                      d) all the three
- vii. What is the type of bank if classified on the basis of structure?  
a) Branch bank                      b) unit bank                      c) Both                      d) no one
- viii. Give the disadvantage of branch banking:  
a) Distance between employer and employee                      b) delay in decision making  
b) Bottlenecks in pace of working                      d) all the three
- ix. What is the advantage of unit banking?  
a) Curtail in embezzlement and frauds                      b) quick decision making  
c) closeness between employer and the employees                      d) all the three
- x. What is the type of bank according to method of operation  
a) specialized bank                      b) corresponding bank                      c) both                      d) no one
- xi. Commercial bank carries the business of:  
a) Money                      b) goods                      c) trade                      d) no answer is correct
- xii. Commercial bank carries its business with the help of:  
a) Capital of its own                      b) Capital of others                      c) Capital of govt.                      d) Capital of societies
- xiii. For what period generally the commercial banks lend?  
a) Long period                      b) medium period                      c) short period                      d) day to day
- xiv. What tool is used by the commercial banks to participate in foreign trade.  
a) Exchange bills                      b) promissory notes                      c) cheques                      d) trade bills
- xv. Who was the person for whom the term 'commercial bank' was used?  
a) Gold Smith                      b) Money lender                      c) Interest charger                      d) money changer

Subject: Banking  
Class: XII

Max Marks: 60  
Time: 2 Hours 40 Minutes

**Banking (Short Questions)**

**Note: Attempt any seven questions.**

- i. Define Bank? List kinds of banks by function?
- ii. How credit is created by commercial bank?
- iii. What are the reasons of dishonor of a cheque?
- iv. Write differences between cheque and bill of exchange?
- v. Define cheque? What are the kinds of cheque?
- vi. List types of bank account? Explain current account.
- vii. List the methods of credit control?
- viii. Write difference between promissory note and cheque?

**Banking (Long Questions)**

**Note: Attempt any two questions.**

- i. What are the functions of central bank?
- ii. What are the functions of commercial banks?
- iii. What are the principle of bank funds?

c) both

**a) Italy**

b) Banco

c) money

c) both

d) all the three

c) Both

d) all the three

d) all the three

c) both

a) Money

b) Capital of others

c) short period

a) Exchange bills

d) Money changer

### **Com geo**

a) land

b) fishing

d) all the three

d) all the three

c) environment

d) all the three

c) physical difference

c) climate

b) upheaval land surface

d) all answers are correct

d) present to past

c) developed countries

b) developing agricultural countries

a) Mixed Farming

d) fishing

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### MID TERM EXAMINATION 2016

Paper: Botany

Class: XII-A/B

Time: 2 Hours

Max. Marks: 40

### SECTION "A" (MCQS)

- i. Alarm substances are  
a) Chemotoxins      b) heat-shock proteins      c) Phytoalexins      d) Auxin
- ii. \_\_\_\_\_% of protein is found in DNA  
a) 50%      b) 60%      c) 40%      d) 10%
- iii. Sunken stomata are found in  
a) Halophytes      b) Hydrophytes      c) Mesophytes      d) Xerophytes
- iv. \_\_\_\_\_ is / are growth regulators / promoters  
a) Gibberelin      b) Cytokinin      c) Auxin      d) All of them
- v. Aerial roots or respiratory roots are found in  
a) Halophytes      b) drought condition      c) Both of these      d) None of these
- vi. Cooling effects is given to the plant by  
a) Photosynthesis      b) Respiration      c) Transpiration      d) Both B & C
- vii. Movement in plant due to internal stimulus called  
a) Autonomic      b) Paratonic      c) Spontaneous      d) Both A & C
- viii. Hormone is a greek work which means  
a) To expel      b) To excite      c) to remove      d) Both B & C
- ix. In angiosperm the zygote is changed into  
a) Embryo      b) Seed      c) Prothallus      d) Fruit
- x. In grass seed, the protective sheath around root is called  
a) Coleoptile      b) Coleorhiza      c) Endosperm      d) Radicle
- xi. The main axis of inflorescence is called  
a) Pedicel      b) Petiole      c) Penduncle      d) Parietal
- xii. DNA is composed of billions of units, called  
a) Histones      b) non histones      c) Nucleotides      d) Nucleosomes
- xiii. The cambium which is produced between vascular bundles during secondary growth is called  
a) Inter fascicular cambium      b) Fascicular cambium      c) Lateral cambium      d) Apical cambium
- xiv. In bryophytes growth takes place at  
a) Apices      b) Lateral Region      c) Throughout body      d) All of them
- xv. The different chromatids of two different chromosomes are called  
a) Sister chromatids      b) non-sister chromatids      c) sister centromeres      d) non sister centromeres
- xvi. The cambium and phallogen tissue are considered as \_\_\_\_\_ meristerms  
a) Lateral      b) Apical      c) Intercalary      d) Interlateral

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### MID TERM EXAMINATION 2016

**Paper: Botany**

**Class: XII A/B**

#### **Section B (Short-Answer Question) 20 Marks**

**Q2i) Attempt any ten part question. Each question carries one marks: (10)**

- i. Write about the inflorescence and its types
- ii. How does secondary growth take place in plants.
- iii. Define biological clock and circadian rhythm.
- iv. What is growth correlation.
- v. Write the chemical names of natural & synthetic hormones of following:  
a) Auxin                      b) Cytokinin
- vi. Explain parthenocarpy
- vii. What is nucleosome?
- viii. Explain double fertilization in angiosperm
- ix. Write the no. of chromosomes in following:  
Sugarcane, Mosquito, Penicillium, Drosophila
- x. How the chemical act as mutagens?
- xi. What is meristematic region? Name its types.
- xii. What is abscission?
- xiii. How does plants prevent them against herbivory?
- xiv. How many kinds of tRNA found in cytoplasm in human cell Write one function of tRNA.
- xv. How does lower plants get support.

**Q2ii) Attempt any five part question. Each question carries two marks: (10)**

- i. Write down the chemical composition of chromosomes.
- ii. Explain Parenchyma or sclerenchyma
- iii. What is Chargaff's rule? Write the complementary sequence of GC TA GG TTA
- iv. Write about phases of growth in plants.
- v. Differentiate between P660 & P730
- vi. Write a note on tissue culture OR Write two advantages & disadvantages of tissue culture.
- vii. Write down the application of vernalization OR What is photoperiodism explain its types.

#### **Section C (Detailed-Answer Questions)**

**Note: Attempt any two questions from this section. All questions carry equal marks. (12 Marks)**

- Q3. Describe phytohormones in detail. OR Describe natural & artificial methods of asexual reproduction.
- Q4. Describe Osmoregulation in plants. OR Describe paratonic / Induced movements in plants.
- Q5. Describe Watson – Crick model of DNA also write its replication (semi-conservative) OR What is mutation? Describe chromosomal and gene mutation.

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**MID TERM EXAMINATION 2016**

**Paper: Chemistry**

**Class: XII-A/B/C**

**Time: 3 Horus**

**Max. Marks: 85**

**Section "A" (Compulsory) Multiple Choice Questions**

**Note: Attempt 10 questions from sec "B" and 02 questions from sec "C". Q1 is compulsory.**

Q1: Choose correct answer from following.

[17]

- The element that was not discovered at the time of Mendeleef is \_\_\_\_\_.  
a) Al                      b) Ga                      c) Ca                      d) None of these
- In beta elimination nucleophile removes hydrogen from \_\_\_\_\_ carbon.  
a) alpha carbon        b) beta carbon        c) from any carbon    d) none of them
- The hydrides formed by the combination of non metal of group IVA-VA-VI-A and VIIA with hydrogen are called:  
a) Ionic hydride        b) Covalent hydride    c) Complex hydride    d) Interstitial hydride
- liquefied petroleum gas (L.P.G) is the mixture of.  
a) methane and ethane                      b) ethane and propane  
c) Propane and Butane                      d) Methane and butane
- This process is used to increase the octane number of the fuel.  
a) Cracking              b) Reforming              c) Refining              d) polymerization
- Gypsum when heated  $100^{\circ}\text{C}$  produces.  
a) Epsom                      b) Plaster of paris  
c) Calcium Sulphate hemi hydrated        d) Both B & C
- Water gas is a mixture of  
a) CO and  $\text{H}_2$               b)  $\text{CO}_2$  and  $\text{H}_2$               c) CO and  $\text{H}_2\text{O}$               d)  $\text{CO}_2$  and  $\text{H}_2\text{O}$
- Ethyne shows \_\_\_\_\_ behaviour when it reacted with heavy metal.  
a) Acidic                      b) Basic                      c) Neutral                      d) Amphoteric
- Methane gas is commonly known as Marsh gas found in Sui gas upto:  
a) 0.964%                      b) 09.64%                      c) 94.60%                      d) 1.050%
- Petroleum is mixture of:  
a) Alkanes & alkenes    b) Alkenes and alkynes    c) Aromatic hydrocarbon    d) All of them
- Form of coal used at power generating station is called:  
a) Anthracite              b) Sub-bituminous              c) Bituminous coal              d) Lignite
- The horizontal rows in periodic table of element are called:  
a) Periods                      b) Groups                      c) Sub group                      d) None of these
- The compound formed between an element X of group II-A and Y of group III-A has the formula:  
a)  $\text{X}_2\text{Y}_3$                       b)  $\text{XY}_3$                       c)  $\text{X}_2\text{Y}$                       d)  $\text{X}_3\text{Y}_2$
- It is not a nucleophile:  
a) OH                      b) NH                      c)  $\text{BF}_3$                       d) CN
- A soft and Brown from of coal which contains 50-60% carbon is called:  
a) Anthracite                      b) Sub-Bituminous coal                      c) Bituminous coal                      d) Lignite
- Mustard gas produced when Ethene reacted with.  
a) SCL                      b)  $\text{SO}_2\text{Cl}_2$                       c)  $\text{S}_2\text{Cl}_2$                       d)  $\text{SO}_3$
- The formation of carboxylic acid when Grignard Reagent react with  
a) Carbon dioxide        b) Aldehyde                      c) Ketone                      d) Alcohol

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### MID TERM EXAMINATION 2016

Class: XII-A/B/C  
Paper: Chemistry

Max. Marks: 68  
Time: 2½ Hours

**Note:** Attempt five question from Inorganic Chemistry and five questions from Organic Chemistry. All questions carry equal marks.

#### Section "B" (Short Question Answers)

##### INORGANIC CHEMISTRY

- State the modern periodic law, and explain how it removed the defect of Mendeleev's system of classification.
- What is water gas? How is it prepared? And write one method for separation of hydrogen from water gas.
  - State the following laws. (Any two)  
\* Doberener's triads                      \* Newland law of octave                      \* Periodicity
- Describe the preparation of chlorine gas by Castner-Kellner cell.
  - Define hydrides and explain ionic hydrides with their chemical properties and two uses.
- Write the chemical formula of the following:  
\* Epsom salt                      \* Bleaching powder                      \* Sodium bicarbonate                      \* Hypochlorous acid
- Write the equation when s-block elements react with  
a. Water                      b. Nitrogen                      c. Halogen                      d. Hydrogen
- Give the equations of the following:  
\* Ethyl alcohol reacts with water                      \* Sodium reacts with water  
\* Bleaching powder reacts with lime water                      \* Sodium hydroxide reacts with chlorine

##### ORGANIC CHEMISTRY

- Explain the preparation of ethyne gas by calcium carbide also how ethyne reacts with.  
\* Oxidation reaction                      \* Addition of HCN
- Describe the mechanism of substitution in methane by chlorine.
  - What are organometallic compounds? Write the method of preparation.
- Discuss the effect of the group already present in the benzene molecule on the entry of the second substituent.
- Define the following:  
\* Cracking                      \* Polymerization                      \* Refining                      \* Reforming
  - Write the I.U.P.A.C name of the following:  
\*  $\text{CH}_2 = \text{C}(\text{CH}_3) - \text{C} = \text{CH}$                       \*  $(\text{C}_6\text{H}_5)_3\text{CBr}$                       \*  $\text{CH}_3 - \text{CH} = \text{CH}(\text{OH}) - \text{CH}_2\text{CH}_3 - \text{CH}_3$   
\*  $\text{CH}_3 - \text{CO} - \text{CH}(\text{CH}_3)\text{COOH}$                       \*  $\text{CH}_3\text{CH}(\text{OH}) - \text{CH}(\text{CH}_3) - \text{CH}(\text{Cl}) - \text{CHO}$                       \*  $\text{CH}_3\text{COOH}(\text{CH}_3)_3$
- What are alkyl halides? Write their classification.
- How will you prepare the following? Give equations only.  
\*  $\beta, \beta'$ -dichlorodiethylene sulphide from ethane                      \* Ethanal from ethanol  
\* hexachlorocyclohexane from benzene                      \* Cyclohexane from benzene
- Explain briefly the general pattern of electrophilic substitution reaction of benzene with reference to Friedel-Crafts acylation and alkylation.
- Change the following  
\* Benzene into toluene then into benzoic acid                      \* Ethyne into benzene then isopropyl benzene

**Note:** Attempt any ONE Question from Inorganic and ONE from Organic Section.

**Section "C" (Detailed – Answer Question)**

**INORGANIC CHEMISTRY**

- Q3: (a) Describe the industrial manufacturing of sodium metal by down cell.  
 (b) Discuss Position of hydrogen in IV-A and VII-A.  
 (c) Discuss the types of Elements on the base of electronic configuration.
- Q4: (a) Describe the industrial manufacturing of Soda Ash by Ammonia Solvay process.  
 (b) How sodium carbonate react with:  
 \* Silica                      \*  $Mg^{+2}$                       \*  $Ca^{+2}$                       \* HCL  
 (c) Write any four method for the industrial preparation of hydrogen gas.

**ORGANIC CHEMISTRY**

- Q5: (a) Describe orientation in Benzene.  
 (b) How can we prepare following compound.  
 1. Ethane by wurtz reaction                      3. Methane by Grignard Regnant  
 2. Ethene by Dehydrogenation of Ethyne                      4. Benzene by petroleum sample  
 (c) Describe natural sources of organic compound.  
 (d) What do you meant by Aromaticity? Explain the molecular orbital structure of benzene.
- Q6: (a) How is acetylene convert into following?  
 \* Ethanal                      \* Ethanoic acid  
 \* 1, 1-dichloroethane                      \* Red solid and White Solid  
 (b) Describe the following reaction with mechanism when Tertiary butyl chloride is treated with aqueous KHS.

OR

- Write the objection against Kekule's structure and explain how was this remove by Kekule?
- (c) Describe the molecular orbital structure of Ethene and Ethyne.  
 (d) What is Electrophilic aromatic substitution reaction? Why benzene favours this reaction although contains three double bond give the mechanism of Electrophilic substitution reaction between benzene and isopropyl chloride.

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**MID TERM EXAMINATION 2015**

Subject: Com. Geography

Max Marks: 75

Class: XII

Time: 3 Hours

**Time: 20 Minutes**

**MCQs**

**Max Marks: 15**

**Q1. Choose the correct answer for each from the given option:**

- i. Economic and commercial geography is concerned with human activities and:  
a) land                      b) sky                      c) Minerals                      d) Air
- ii. Which one of the profession would the man adopt if he gets river, sea, streams and ice lands?  
a) Cultivation                      b) Fishing                      c) hunting                      d) labor
- iii. For knowing the reasons of economic development and backwardness, which of the following would be analyzed?  
a) Physical aspect                      b) technological aspect                      c) cultural aspect                      d) all the three
- iv. The factors which influence human activities include:  
a) Topography                      b) physical environment                      c) climate                      d) all the three
- v. Economic geography studies human life related to:  
a) color and creed                      b) dress                      c) environment                      d) religion
- vi. The difference creating factors amongst the people of the world is:  
a) Religion                      b) colour                      c) traditions                      d) all the three
- vii. What is the cause of colour difference of the people?  
a) Difference of food                      b) difference of religion                      c) physical difference                      d) non one of these
- viii. The cause of different patter of living of the people of the world is:  
a) Religion                      b) culture                      c) climate                      d) mountain
- ix. What is the reason of backwardness of means of transport in the mountainous regions?  
a) Mountains                      b) upheaval land surface                      c) rocks                      d) all the answers are correct
- x. There where sun rays fall straight whole of the year:  
a) thick forest are grown                      b) abundant animals are found  
c) difficult routes are found                      d) all answers are correct
- xi. For understanding the history of human activities, we will to travel from:  
a) Past to present                      b) present to future                      c) future to resent                      d) present to past
- xii. Occupation of dairy farming on the business scale is adopted is adopted in:  
a) Backward countries                      b) agriculture countries  
c) developed countries                      d) underdeveloped countries
- xiii. Cattle raising at subsistence level is adopted in :  
a) Developed industrial countries                      b) developing agricultural countries  
c) backward deserted countries                      d) no answer is correct
- xiv. If cattle raising at commercial level is combined with agriculture, such activity it is termed as:  
a) Mixed Farming                      b) agricultural farming                      c) dairy farming                      d) cattle raising
- xv. What occupation is adopted in Philippine, Vietnam and Norway as source of food?  
a) Industry                      b) mining                      c) agriculture                      d) fishing

**Short Questions (World)**

**Note: Attempt any 5 questions from World & Pakistan portion.**

1. What do you mean by edible oil? Name the main sources of edible.
2. China is major producer and importer of iron ore. Comment?
3. Write note on truck farming?
4. Define growth rate of population. How is it calculated?
5. Write a note on interrelation of commercial activities?
6. Great Britain is the pioneer in textile manufacturing comment?
7. What do you mean OPEC. Write the name of its members?
8. What is the importance of iron ore?
9. Name the cotton producing area of the world?

**Short Questions (Pakistan)**

1. Name the important highways of Pakistan?
2. Name the cotton producing in Pakistan and give their importance?
3. Write any four positive aspects of dams?
4. Why is Pakistan important in respect of its marine location?
5. Give reasons of agricultural backwardness in Pakistan?
6. What are the importance of railway in Pakistan?
7. What are the causes of the rapid growth of population in Pakistan?
8. Why rice is not grown in Baluchistan?
9. Define passes? Name famous passes of Pakistan?

**Long Questions (World)**

**Note: Attempt any one question from World & Pakistan portion.**

1. Define commercial activities? What are types of commercial activities?
2. Explain demographic transition?

**Long Questions (Pakistan)**

1. List physical feature of Pakistan. Explain any two.
2. What are the importance of roads in the economic development of Pakistan?

- a) land
- b) fishing
- d) all the three
- d) all the three
- c) environment
- d) all the three
- c) physical difference
- c) climate
- b) upheaval land surface
- d) all answers are correct
- d) present to past
- c) developed countries
- b) developing agricultural countries
- a) Mixed Farming
- d) fishing

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**MID TERM EXAMINATION 2016**

Paper: Computer  
Class: XII

Max. Marks: 75  
Time: 3 Hours

- Note:** i) This section consists of 15 part questions and all are to be answered.  
ii) Do not copy down the part questions in your answer script. Write only the answer in full against the proper number of the question end its part.

**Time: 30 Minutes**

**Max. Marks: 15**

**Section "A"(COMPULSORY)**

**Q.1 Choose the correct answer for each from the given options.**

- i. In 'C' programming '/'a' used for  
\* Line break                      \* Form fee                      \* Alert                      \* Carriage return
- ii. The void in the parenthesis after main specifies that the function take:  
\* no arguments                      \* no returns                      \* return value                      \* do no thing
- iii. The number of relations may exist between tables in database.  
\* 4                      \* 3                      \* 2                      \* 1
- iv.  $x - = y + 1$  ; means  
\*  $x = x - y + 1$                       \*  $x = - x - y + 1$                       \*  $x = - x + y + 1$                       \*  $x = x - y - 1$
- v. The one of the following operator takes only integer operand:  
\* +                      \* /                      \* -                      \* %
- vi. Data accessed must be sequential in :  
\* Network database model \* Hierarchical model \* Relational model                      \* File mended
- vii. The statements following else in an if – else constriction are executed when :  
\* the conditional expression following if is false \* the conditional expression following if is true  
\* the conditional expression following else if false \* the conditional expression following else is true
- viii. This language facilitates for describing the structure of fields record, files and program accessing rights:  
\*Data definition language (DDL)                      \* Data manipulation language (DML)  
\* Data control language (DCL)                      \* Structure query language (SQL)
- ix. The rules / formats for using a programming language are called:  
\*Semantic                      \* rule                      \* syntax                      \* module
- x. This format specifier is used to print string  
\*% C                      \* % S                      \* % d                      \*
- xi. If  $a = 9$  ,  $b = 3$  and  $c = 2$  then the expression:  $(a - a/b * b\%c) > (a \% b)$  evaluates  
\* False                      \* True                      \* Invalid                      \* O
- xii. If a has the value 3, then the output of the statement: `printf ("%d %d" , n ++ , ++n)`  
\*3 5                      \* 4 5                      \* 4 4                      \* 2 5
- xiii. All C programs consists of one or more  
\*functions                      \* scan f ( )                      \*Print f ( )                      \* pointers
- xiv. You begin a comment with the characters  
\* \*/                      \* / \*                      \* \ \*                      \* \* \
- xv. Which of the following is an example of initializing a variable  
\*num = 2;                      \* int num;                      \* num<2;                      \* int num=2;

**Section "B"(SHORT QUESTION ANSWERS) Marks 36**

**Q2. Answer any twelve part questions from this section. All question carry equal marks.**

- i. Why is C language called "case sensitive language"?
- ii. Write the printf ( ) statement to print the following phrases using escape sequence.  
a) " The world is round" b) How are you ? c) What is your father's name?
- iii. What is the purpose of ++ and -- operators? In C-language.
- iv. What are reserved words or keywords in C-language? Define any three.
- v. What is Primary Key?
- vi. Write a program to compute the discriminant value using given formula  $d = \sqrt{b^2 - 4ac}$
- vii. Write the order of precedence of operator in C.
- viii. If S = 1 , b = 2 then define the purpose of the given code segment:  
B = S + b; S = b - s; b = b - s;
- ix. Write a program to calculate are of triangle  
 $A = 1/2 ab$
- x. What is data redundancy?
- xi. What is a query language?
- xii. Write equivalent C – Statements.  
a)  $Z = (x^2 - y^2) + (x + y)^2$  b)  $b = \frac{a^2 - 4ac}{2a}$  c)  $Z = \frac{x^2 + 2xy + y^2}{x^3 + y^3}$
- xiii. What is a format specifier?
- xiv. Write a program that inputs three numbers, then displays the number in reverse order i.e. last number is displayed first.
- xv. What are the commonly used input/output functions in C?
- xvi. What is the purpose of the getch ( ) ;
- xvii. What is a difference between "=" and "= =" operator?
- xviii. Write a program that asks the user for an integer and then tells the user if that number is even or odd. (use C's modulus operator%)

**Section "C"(DETAILED-QUESTION ANSWERS) Marks 24**

**Note: Answer any TWO questions from this section. All questions carry equal marks.**

- Q3a) Explain the different data types used in C-language?
- b) Write a program that reads temperature and prints a message as given below:
- | Temperature  | Message       |
|--------------|---------------|
| > 35         | Its hat day!  |
| ≥ 25 and ≤35 | Its nice day! |
| < 25         | Its cold day! |
- c) Why is Relational Database Management system (RDBMS) widely used in database design.
- Q4a) Briefly Explain the history of C language.
- b) Define C – IDE ?
- c) How does the switch ( ) statement differ from else if statement?
- Q5a) What are unformatted input – output (I/O) functions used in C ? Give examples.
- b) Write a program that reads three numbers and prints the largest.
- c) Explain Hierarchical Model with example.



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### MID TERM EXAMINATION 2016

**Class: XII**

**Max. Marks: 100**

**Paper: English**

**Time: 3 Hours**

### **SECTION 'A'**

### **(MULTIPLE CHOICE QUESTIONS) – (M.C.Qs.)**

**Note: Write only the answer in full against the proper number of the question and its part.**

**Q1. Choose the correct answer for each from the given option: (20)**

- i) The smile of the Korean girl gave the man a purpose in life which was  
\* goodness                      \* love                      \* forgiveness                      \* revenge
- ii) The man who was imprisoned in Zenda was  
\* Max Holf                      \* Johann                      \* Rudolf Elphberg                      \* Rudolf Rassendyll
- iii) Rudolf Rassendyll was invited to the summer house by  
\* Flavia                      \* De Gautet                      \* Bersonin                      \* Antoinette de Mauban
- iv) Black Michael was killed by  
\* Johann                      \* Rupert                      \* Bersonian                      \* Rassendyll
- v) Rudolf Rassendyll was basically:  
\* English                      \* German                      \* French                      \* Scottish
- vi) Marshal Strakencz was a:  
\* governor                      \* cardinal                      \* army chief                      \* caretaker
- vii) The distance between Zenda and Strelsau was  
\* 10 miles                      \* 20 miles                      \* 30 miles                      \* 50 miles
- viii) Raining cats and dogs means  
\* raining heavily                      \* drizzle                      \* intermittent raining                      \* no rain but animals dropping from the sky
- ix) 'Modern Cosmopolitanism is based upon science and machinery'. It is stated by  
\* Albert Einstein                      \* Betrand Russel                      \* James Jeans                      \* Liaquat Ali Khan
- x) The political ideal of Albert Einstein is  
\* Aristocracy                      \* Autocracy                      \* Plutocracy                      \* Democracy
- xi) The speech 'Pakistan and the Modern World' was delivered by Liaquat Ali Khan in  
\* India                      \* Pakistan                      \* America                      \* England
- xii) Jacob's Ladder is actually a \_\_\_\_\_.  
\* Pipe                      \* Ladder                      \* Bridge
- xiii) The capital of Ruritania is \_\_\_\_\_.  
\* Strelsau                      \* Denda                      \* Stockholm
- xiv) The hero of the Novel "The Prisoner of Zenda" is \_\_\_\_\_.  
\* Black Michael                      \* Rudolf Rassendyll                      \* Colonel Sapt
- xv) The heroine of the novel, "The Prisoner of Zenda" is.  
\* Princess Falvia                      \* Countess Helga                      \* Lady Mauban

**Class: XII**  
**Paper: English**

**Max. Marks: 80**  
**Time: 2 ½ Hours**

**Section 'B'**

**Sub Section I (Intermediate Book II)**

**Q2:** Answer any two questions from each part. All questions carry equal marks.

- i) Explain the importance of the label on Mrs Oakentubb's suitcase ? Why does she hide.
- ii) Mrs. Oakentubb got the punishment she deserves ?
- iii) What is the melo-drama?
- iv) Why is it insular for European historians to term the centuries after the fall of Roman?

**Sub Section II (Selection from Verses Poem)**

- i) Why Shakespeare compares this world to stage and all the men and women to actress?
- ii) What is significance of the last stage of a man?
- iii) Describe the qualities of the man of life upright?
- iv) How was Samson Agonistes taken as captive and what did the philistines make him to do?

**Sub Section III (The Prisoner of Zenda)**

- i) Who killed Black Michael and why?
- ii) Was Madam Mauban Justified in opposing all evil schemes of Black Michael?
- iii) Why and how did Rassendyll impersonate as the King?
- iv) Who are the six? What part do they play in the novel?

**Sub Section IV (Grammar)**

- i) Use any three of the following into your own sentences.  
To stand by , to take after , to bring up, to turn down, A red-letter day  
An apple of discord
- ii) Use any three of the following pairs in words in your own sentences.  
Set, sat , flour , floor , farmer , former, prey , pray , bear , Bear
- iii) Write the meaning of any five of the following:  
Melodrama, Manslaughter, antagonist, solitude , endeavour , Machine age, barbarism

**SECTION 'C'**

**(DETAILED-ANSWER QUESTIONS)**

**NOTE:** Attempt all questions from this section. All questions carry equal marks.

1. Write an essay on any One of the following:

- i) Life in Karachi      ii) Terrorism      iii) Blessings and Curses of Science
- iv) Energy Crises in Pakistan      v) Impact of Electronic Media

2. Change the Narration:

- i) He said, "God is great"      ii) I said to him, "I am writing an essay"
- iii) She said, "The earth moves round the sun"
- iv) The Commander said, "move forward"      v) Ali said to me, "I will give you a story book".

3. Read the following passage and answer the questions given below:

That freedom means freedom only from foreign domination, is an outworn idea. It is not merely governments that should be free but the people themselves whom should be free, and no freedom has any real value for the common man or woman unless also means freedom from ignorance. This is the main task which confronts us if we are to take our rightful place in the modern world. We cannot hold the clock back, and therefore, it is we who must go forward at a dutiful pace.

- i) What does freedom require in the modern times?
- ii) How can we take our rightful place in the modern world?
- iii) Give the main idea of the passage in your own words.



- xii)  $\frac{d}{dx}(\sec^2 x) = :$   
 \*  $\sec^2 x$                       \*  $\tan x$                       \*  $\sec^2 x \tan x$                       \*  $2 \sec^2 x \tan x$
- xiii)  $f(y) = \log_a y$ , for all in  $\mathbb{R}$  then  $\frac{d}{dy}(\log_a y) :$   
 \*  $\frac{1}{y} \ln a$                       \*  $\frac{1}{y \ln e} dy$                       \*  $\frac{1}{y \ln a}$                       \*  $\frac{1}{y} a^y dy$
- xiv) If  $f(x) = \tan^{-1} 3x$ , then  $f'(x)$  is:  
 \*  $\frac{3}{1+3x^2}$                       \*  $\frac{1}{9+x^2}$                       \*  $\frac{1}{1+9x^2}$                       \*  $\frac{3}{1+9x^2}$
- xv) If  $y = \ln \sin x$ , then  $\frac{dy}{dx} = :$   
 \*  $\frac{1}{\sin x}$                       \*  $\cos x$                       \*  $\cot x$                       \*  $\tan x$
- xvi)  $\lim_{x \rightarrow a} \frac{f(x) - f(a)}{x - a} = :$  is equal to:  
 \*  $f'(x)$                       \*  $f'(a)$                       \*  $f'(0)$                       \*  $f'(1)$
- xvii)  $\frac{d}{dx}(\sin^2 x + \cos^2 x)$  is  
 \*  $\cos x$                       \*  $2 \sin x \cos x$                       \*  $-2 \sin x \cos x$                       \*  $0$
- xviii) If  $y = \cot x$ , then  $dy =$   
 \*  $-\operatorname{cosec} x \, dx$                       \*  $-\operatorname{cosec}^2 x$                       \*  $-\operatorname{cosec}^2 x \, dx$                       \*  $\cot^2 x \, dx$
- xix) The length of the tangent drawn from the point (2,4) to the circle  $x^2 + y^2 - 5 = 0$  is  
 \*  $5$                       \*  $15$                       \*  $\sqrt{15}$                       \*  $\sqrt{5}$
- xx) The slope of the following tangent to the curve  $y = 6x^2$  at (1, -1) is:  
 \*  $-12$                       \*  $12$                       \*  $15$                       \*  $6$

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**MID TERM EXAMINATION 2016**

Paper: Maths  
Class: XII A-B

Max. Marks: 80  
Time: 2 Hours 40 Minutes

**Section – B**

**(Short -Answers Questions) (80 Marks)**

**Q2. Attempt any four questions:**

- i) If the line through (2, 5) and (-3, -2) is perpendicular to the line through (4,-1) and (x,3)
- ii) Find the equation of the line which passes through the point (-3, -4) and has the Sum of its intercepts equal to 1
- iii) A straight line passes through the points A(-12,-13) and B(-2,-5). Find the point on the line whose ordinate is -1.
- iv) Find the equation of the perpendicular bisector of the line segment joining the points A(15, 14) and B(-3, -4).
- v) Show that the line segment joining the mid-points of any two sides of a triangle is parallel to the third side and equal to one half of its length.
- vi) Find the angles of the triangle whose vertices are A (-2, 1), B (4, -3) and C (6, 4)

**Q3. Attempt any four questions:**

- i) D, E, F are the mid-term of the sides BC, CA, AB respectively of the triangle ABC show that  $\Delta ABC = 4\Delta DEF$ .
- ii) The gradient of one of the lines  $ax^2 + 2hxy + by^2=0$  is two times that of the other. Show that  $8h^2=9ab$
- iii) Find the distance between the parallel line  $5x - 12y + 10 = 0$ ,  $5x - 12y - 16 = 0$ .
- iv) The point (-2,1) is a vertex of a rectangle whose two sides lie on the lines  $3x-2y-5=0$ ,  $2x+3y+7=0$ . Find area of the rectangle
- v) A line whose y-intercept is 1 less than its x-intercept forms with the co-ordinates axes a triangle of area 6 square units. What is its equation?
- vi) Find the equation of the line perpendicular to  $x - y + 5 = 0$ , passing through the point of intersection of  $x - 2y + 2 = 0$  and  $2x + y - 1 = 0$ .

**Q4. Attempt any four questions:**

- i) Find derivative by first principles at  $x=a$  in the domain D (f) of the functions  $f(x)=\cot x$

ii) Find the derivative by first principles at any point  $x$  in the domain  $D$  (f) of the functions  
 $f(x) = \cos^2 x$

iii) Find  $\frac{dy}{dx}$  of any two of the following.

a)  $y = \ln \sqrt{1+x^2} + \cot^{-1} x$

b)  $y = \ln \frac{e^x}{1+e^x}$

c)  $y = x^x + (\ln x)^{\sin x}$

iv) Find  $\frac{dy}{dx}$  of any two of the following:

a)  $2x^2 + 3xy + 7y^2 - 2x + 4y + 9 = 0$

b)  $\sqrt{x^2 + y^2} = \ln(x^2 - y^2)$

c)  $e^x \ln y = \sin^{-1} y$

v) Find  $\frac{dy}{dx}$  of any two of the following:

(a)  $x = a \cos^2 3\theta, y = b \sin^2 3\theta$

b)  $x = \sin t^3 + \cos t^3, y = \sin t + 2 \cos^{-1} t$

(c)  $x = (t - \sin t), y = (1 - \cos t)$  at  $t = \frac{\pi}{2}$

**Q5. Attempt any three questions:**

i) Find the equation of the circle which is concentric with the circle  $x^2 + y^2 - 8x + 12y - 12 = 0$  and passes through the point (5, 4).

ii) Find the condition that conics  $ax^2 + by^2 = 1$  and  $a'x^2 + b'y^2 = 1$  cut each other orthogonally.

iii) Find the equation of the circle containing the point (-1, -2) and (6, -1) touching X-axis (i.e.  $y=0$ ).

iv) Prove that two circles  $x^2 + y^2 + 2gx + c = 0$  and  $x^2 + y^2 + 2fy + c = 0$  touch each other, if

$$\frac{1}{f^2} + \frac{1}{g^2} = \frac{1}{c}$$

v) Prove that the product of abscissa of the points where the straight line  $y = mx$  meets the circle

$$x^2 + y^2 + 2gx + 27y + C = 0 \text{ is equal to } \frac{C}{1+m^2}.$$

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### MID TERM EXAMINATION 2016

**Class: XII-A/B/XII-COM**

**Paper: Pak Studies**

**Max. Marks: 50**

**Time: 2 Hours**

#### General Instructions:

Section A:	Section "A" Consist of MCQ's . All are to be answered.	Marks 10
Section B:	Short Answer – Questions .Attempt any 8.	Marks 24
Section C:	Detailed Answer – Question .Attempt any 2.	Marks 16

#### SECTION 'A'

Q1. Choose the correct answers for each from the given options:

- Islam spread in sub-continent by \_\_\_\_\_. (Army, saint, Kings, Teachers)
- The number of security council members is \_\_\_\_\_. (4,5,6,7)
- Water Basin Treaty was signed in \_\_\_\_\_. (1960, 1950, 1949, 1962)
- The number of cabinet mission members is \_\_\_\_\_. (3,5,4,7)
- Objective Resolution was presented by \_\_\_\_\_ in constituent assembly.  
(Moulana Muhammad Ali, Liaquat Ali Khan, Quaid-e-Azam, Agha Khan)
- The former East Pakistan was separated in \_\_\_\_\_. (1971,1972,1973,1974)
- Shimla deligation met with viceroy under the leadership of \_\_\_\_\_.  
(Quaid-e-Azam, Liaquat Ali Khan, Agha Khan, Moulana Hasrat Mohani)
- \_\_\_\_\_ is called upper house of Pakistan.  
(National Assembly, Senate, President House, P.M. House)
- The first round table conference was held at \_\_\_\_\_. (Cairo, London, Paris, Delhi)
- The Head of City Government is called \_\_\_\_\_. (Mayor, Nazim, Director, Commissioner)

#### Section "B"

Q2. Give the short Answer of any eight of the following :

- What do you know about the Aligarh movement?
- Allahabad address of Allama Iqbal 1930?
- Where was the Pakistan resolution passed write any three points of its.
- Describe the aims and objectives of All India Muslim League (any four points)
- State the importance of Lucknow Pact 1916 (only four sentences)
- State the problem faced by Pakistan just after its establishment?
- Which countries have joint borders with Pakistan?
- Write a few sentences about first two Round Table Conference.
- Give any three points of differences between the urban and the rural society of Pakistan?
- Describe the services of Liaquat Ali Khan in Pakistan Movement?
- Discuss the social conditions of the sub-continent before the advent of Islam?
- When and who presented the objective Resolution?

#### (Section "C") Long Detailed Answer

Q.3:- Answer any two questions.

- Why the Muslims of sub-continent demanded separate homeland for themselves?
- What is meant by Two Nation Theory? Also tell the importance of objective resolution in the constitution making of Pakistan?
- Write about the foundation of Muslim League and its aims and objectives.
- What do you about Gandhi Jinnah talks What results come out of this discussion.

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MID TERM EXAMINATION 2015

وقت: ۲ گھنٹہ

کل نمبر: ۵۰

مضمون: مطالعہ پاکستان

جماعت: بارہویں A-B-C

حصہ (الف) ۱۰ اکثر الامتخانی سوالات پر مشتمل ہے اور ہر ایک کا جواب درکار ہے۔ (۱۰)

حصہ (ب) ۸ مختصر سوالات پر مشتمل ہے اور ۵ سوالات کے جوابات درکار ہیں۔ (۲۴)

حصہ (ج) ۲ تفصیلی جوابات کے سوالات پر مشتمل ہے اور اس حصے سے دو سوالات حل کرنے ہیں۔ (۱۶)

کل نمبر: ۱۰

(حصہ الف) کثیر الامتخانی سوالات

وقت: ۱۵ منٹ

سوال نمبر ۱۔ درجہ ذیل سوالات میں سے ہر ایک کے درست جواب منتخب کریں۔

۱۔ پاکستان نے سن عیسوی \_\_\_\_\_ میں جوہری دھماکا کیا۔ (1998, 1992, 1974, 1970)

۲۔ سارک کے ممبر ممالک کی تعداد \_\_\_\_\_ ہے۔ (پانچ، چھ، سات، آٹھ)

۳۔ پاکستان کی پہلی دستور ساز اسمبلی کو \_\_\_\_\_ نے برطرف کیا۔ (ایوب خان، اسکندر مرزا، غلام محمد یحییٰ خان)

۴۔ پاکستان کی پارلیمنٹ کا ایوان بالا \_\_\_\_\_ ہے۔ (مجلس شوریٰ، قومی اسمبلی، سینٹ)

۵۔ پاکستان کی سب سے اہم نقد آور فصل \_\_\_\_\_ ہے۔ (گندم، کپاس، تمباکو، چاول)

۶۔ آل انڈیا مسلم لیگ کا قیام \_\_\_\_\_ سن عیسوی میں عمل میں آیا۔ (1948, 1947, 1940, 1906)

۷۔ پشتو زبان کے مشہور شاعر ہیں۔ (منیر نیازی، بلھے شاہ، ہاشم خان، رحمن بابا)

۸۔ مسجد مہابت خان \_\_\_\_\_ شہر میں واقع ہے۔ (ملتان، لاہور، پشاور، ٹھٹھہ)

۹۔ \_\_\_\_\_ پاکستان کی سب سے بڑی مسجد ہے۔ (مین مسجد، جامع مسجد ٹھٹھہ، بادشاہی مسجد، شاہ فیصل مسجد)

۱۰۔ \_\_\_\_\_ پاکستان \_\_\_\_\_ ملک ہے۔ (ترقی یافتہ، ترقی پذیر، غیر ترقی یافتہ، ان میں سے کوئی نہیں)

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MID TERM EXAMINATION 2015

وقت: ۱ گھنٹہ ۲۵ منٹ

کل نمبر: ۴۰

مضمون: مطالعہ پاکستان

جماعت: بارہویں A-B-C

(حصہ ب) مختصر سوالات (۲۴)

نوٹ۔ کسی پانچ سوالات کے جوابات تحریر کریں۔

۱۔ نظریہ پاکستان کے بارے میں آپ کیا جانتے ہیں؟

۲۔ 1973ء کے آئین کی کوئی چار اسلامی دفعات کا ذکر کیجئے۔

۳۔ نہرو رپورٹ کے بارے میں آپ کیا جانتے ہیں؟

۴۔ پاکستان کا جغرافیائی محل وقوع واضح کیجئے۔

۵۔ اسلام کی آمد سے قبل جنوبی ایشیاء کے معاشرتی حالات پر چار جملے لکھیے۔

۶۔ قائد اعظم کے چودہ نکات میں سے کسی تین نکات کا ذکر کیجئے۔

۷۔ تحریک خلافت کا آغاز کیوں ہوا۔

۸۔ ریڈ کلف ایوارڈ کے بارے میں آپ کیا جانتے ہیں۔

(حصہ ج) بیانیہ سوالات (۱۶)

نوٹ۔ کسی دو سوالات کے جوابات تحریر کریں۔

سوال نمبر ۳: اسلامی ممالک اور پاکستان کے درمیان تعلقات کے بارے میں تحریر کیجئے؟

سوال نمبر ۴: نظریہ پاکستان سے کیا مراد ہے؟ قائد اعظم کے ارشادات کی روشنی میں وضاحت کریں۔

سوال نمبر ۵: برصغیر کے مسلمانوں نے اپنے لیے علیحدہ وطن کا مطالبہ کیوں کیا؟

سوال نمبر ۶: پاکستان کے مختلف حکمرانوں کے دور میں پاکستان میں اسلامائزیشن کے سلسلے میں کیا اقدامات کئے گئے، بیان کیجئے۔



Section "B"

Q2: Attempt any ten from the following.

- A steel bar is 10m in length at  $-2.5^{\circ}\text{C}$ , what will be the change in its length when it is heated at  $25^{\circ}\text{C}$ ? ( $\beta=3.3 \times 10^{-5}/\text{k}$ )
- Find the change in volume of a brass sphere of 0.6m diameter when it is heated from  $30^{\circ}\text{C}$  to  $100^{\circ}\text{C}$ . ( $\alpha = 1.9 \times 10^{-5}/^{\circ}\text{C}$ )
- A capacitor of 200pF is charged potential difference of 100V. Its plates are connected in parallel to another capacitor and are found that the Potential difference between the plates falls to 60V. What is the capacitance of the second capacitor?
- A small sphere of weight  $5 \times 10^{-3}\text{N}$  is suspended by a silk thread which is attached to a point on a large charge insulating plane. When a charge of  $6 \times 10^{-8}\text{C}$  is placed on the sphere the thread makes an angle  $30^{\circ}$  with the vertical; find the charge density on the plane.
- A water heater that will deliver 1Kg of water per minute is required. The water is supplied at the  $20^{\circ}\text{C}$  and an output temperature of  $80^{\circ}\text{C}$  is desired. What should be the resistance of the heating element in water if the line voltage is 220V? (sp.heat of water= $4200\text{J}/\text{Kg}^{\circ}\text{C}$ )
- The resistance of the tungsten wire used in the filament of 60watt bulb is 240ohm, when the bulb is hot at a temperature of  $2020^{\circ}\text{C}$ . What would you estimate its resistance at  $20^{\circ}\text{C}$ ? ( $\alpha = 0.0046/^{\circ}\text{C}$ )
- In a hydrogen atom an electron experiences transition from a state whose binding energy is 0.5eV to the state whose excitation energy is 10.2eV. What are the quantum numbers of these states? Compute the wavelength of emitted photon. ( $R_H=1.097 \times 10^7/\text{m}$ )
- An electron in the hydrogen atom makes a transition from the  $n=2$  energy state to the ground state (corresponding to  $n=1$ ), find the wavelength in the ultraviolet region. ( $R_H=1.097 \times 10^7/\text{m}$ )
- The half period of  ${}_{104}\text{Po}^{210}$  is 140 days. By what percent does its activity decrease per week?
- A deuteron ( $3.3431 \times 10^{-27}\text{Kg}$ ) is formed when a proton ( $1.6724 \times 10^{-27}\text{Kg}$ ) and a neutron ( $1.6748 \times 10^{-27}\text{Kg}$ ) combine; calculate the mass defect and binding energy in MeV.
- Define electrical potential difference and show that the electric field intensity is equal to the negative of potential gradient.
- How is the resistance of metallic conductor affected by variation in temperature?
- Define the half life of radioactive elements and radioactive decay law.
- Define the coefficient of linear and cubical expansion also Show that  $\beta = 3\alpha$ .
- What do you understand by laser? Briefly describe its principle and operation. Also give different types of laser. Or Show that  $C_p - C_v = R$ .

Section "C"

Attempt any two of followings.

- Q3:
- State the Gauss's law and Calculate the electric field intensity due to an infinite plane sheet of charge, by using Gauss's law. OR  
Compute the pressure on an ideal gas by kinetic molecular theory of gas.
  - Define specific resistance and derive the expression for the temperature coefficient of specific resistance. OR  
Define the Carnot engine and also discuss Carnot cycle with graph.
- Q4:
- Define natural radioactivity, write down the properties of radiation (alpha, beta and gamma rays) emitted from the radioactive elements.
  - Define the parallel plate capacitor and compute the capacitance in the presence of air and in the presence of dielectric between the plates.
- Q5:
- Determine the energy of an electron in a stationary state with the help of Bohr Theory of hydrogen atom.
  - Discuss the principle, construction and working of Geiger-Muller counter.



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**MID TERM EXAMINATION 2016**

Class: XII-A

Paper: Physics

Max. Marks: 85

Time: 3 Hours

**Note: Attempt any ten questions from sec "B", two from sec "C" and sec "A" is compulsory.****Time: 20 Minutes****SECTION "A"****Marks:17**

- i. The maximum work done can be measured in the process called  
 Isobaric                      Isochoric                      Isothermal                      Adiabatic
- ii. In C.G.S. system are calorie of heat is equal to  
 11. 184J    2.184J  
 3.184J    4.184J
- iii. The Boltz man constant is equal to  
 $R/N_A$      $R/N_A$   
 $N_A/R$      $\sqrt{R/N_A}$
- iv. Kinetic energy per mole of an ideal gas is.  
 $3/2KT$      $2/3KT$   
 $3/2RT$      $2/3RT$
- v. If the number of turns in a coil is doubled, its self induction will become:  
 Halved    Doubled    Threefold    Fourfold
- vi. If two wires in which currents are flowing in the opposite direction are placed parallel and close to each other then they will.  
 Repel each other    Attract each other  
 Neither attracts nor repels each other    None of the above
- vii. In step down transformer.  
 $N_s > N_p$      $N_s < N_p$   
 $N_s = N_p$      $N_s = N_p$
- viii. Tesla is the unit of magnetic induction is equal to.  
 $N / C\text{-m}$      $N / A\text{-m}$   
 $A / N\text{-m}$      $A\text{-m} / N$
- ix. Which of the following is not a magnetic material?  
 Iron    Nickel    Cobalt    Silver
- x. If the quantity of charge on each of the two bodies is doubled, the force between them becomes.  
 Twice    Four Times    Nine times    Sixteen times
- xi. Decreasing the separation between two identical charges by one-half causes the repulsive force to become:  
 One-fourth    Half    Double    Fourfold
- xii. If the two capacitors of 7uf and 5uf are connected in series their equivalent capacitance will be  
 2.9uf    0.34uf  
 1/2uf    2uf
- xiii. The number of electron in one coulomb is:  
 $6 \times 10^{20}$      $1.6 \times 10^{18}$   
 $6.25 \times 10^{18}$      $9.1 \times 10^{19}$
- xiv. A battery of e.m.f (E) has an Internal resistance (r). if a current (I) is drawn from it, then its terminal potential drop (V) is given by:  
 $V = E - Ir$      $V = E + Ir$   
 $V = IR$      $V = ER$
- xv.  $1\Omega$  (ohm) is equal to:  
 1VA    1V/A  
 1C/A     $1J/A^2$
- xvi. One kilowatt hour is equal to:  
 $3.6 \times 10^5 J$      $36 \times 10^5 J$   
 $36 \times 10^6 J$      $3.6 \times 10^4 J$
- xvii. The emf of three cells each of 2volt in parallel will be:  
 6V    8V    2V    0V

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**MID TERM EXAMINATION 2016**

**Class: XII-A**  
**Paper: Physics**

**Max. Marks: 68**  
**Time: 2 Hours 40 Min**

**SECTION "B"**

- i. Show that  $\beta = 3\alpha$ .
- ii. Derive the expression of magnetic torque of a current carrying coil in magnetic field.
- iii. Compute the power dissipation by current in a conductor.
- iv. Define electric flux also compute the electric flux through a sphere due to charge at centre.
- v. What do you mean by motional emf? Derive its relevant formula.
- vi. Define specific resistance and derive the expression for the temperature coefficient of specific resistance.
- vii. Define electrical potential difference and show that the electric field intensity is equal to the negative of potential gradient.
- viii. You are given the two plates of copper and (a) mica sheet of thickness 0.20mm and  $\epsilon = 6$  (b) a sheet of glass of thickness 3mm and  $\epsilon = 7$  (c) a sheet of paraffin of thickness 8mm and  $\epsilon = 2$ . Which of the above sheet would you use in order to get maximum capacitance? Explain mathematically.
- ix. Two straight conductors are placed parallel to each other 10cm apart carrying the currents of 12amp and 6amp in the same direction. Find the magnitude and direction of force acting on unit length of each also mention that these conductors attract or repel each other.
- x. A proton enters in a field of 0.3 tesla in a direction making an angle of  $45^\circ$ . What will be the radius of circular path if the velocity of proton is  $10^4$ m/s?
- xi. Find the potential difference across the two ends of copper wire to maintain a steady current of one ampere. The length of wire is one meter and radius of cross section is 0.25cm.
- xii. A point charge A of  $4 \times 10^{-6}$ c is placed on the line between the two charges B of  $8 \times 10^{-6}$ c and C of  $-9 \times 10^{-6}$ c. The charge A is 4m from B and 10m from C, what is the resultant force on A and what will be its direction.
- xiii. A step down transformer reduces 1100V to 220V. The power output is 12.5KW and overall efficiency of the transformer is 90%. The primary winding has 1000 turns. How many turns do the secondary have? What is the power input? What is the current in each coil?
- xiv. The parallel plates of air filled capacitors are 1mm apart. What must the area of plates if the capacitance is 1 farad?
- xv. The resistance of platinum resistance thermometer is  $200\Omega$  at  $0^\circ\text{C}$  and  $257.6\Omega$  when thermometer immersed in hot bath. What is the temperature of the bath? ( $\alpha = 0.00392^\circ\text{C}^{-1}$ )

**SECTION "C"**

- Q1a) Briefly describe the motion of a charge particle in magnetic field also determine the charge to mass ratio of an electron by JJ THOMSON method.
- b) What is the parallel plate capacitor? Calculate the capacitance of parallel plate capacitor when (i) air is between the plates.(ii) dielectric medium is between the plate.
- Q2a) State the first law of thermodynamics and explain the Isobaric process and Isothermal process. OR Describe the principle; construction and working of AC generator also calculate the induced emf.
- b) Why the gasses have two molar specific heat capacities. Show that  $C_p - C_v = R$ .
- Q3a) State the Ampere's circuital law. Using Ampere's circuital law calculate the magnetic induction inside a solenoid.
- b) By using the of kinetic molecular theory show that pressure of the gas is  $P = \frac{1}{3} \rho \bar{V}^2$ .



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### MID TERM EXAMINATION 2016

Class: XII-B

Paper: Physics

Max. Marks: 68

Time: 2 Hours 40 Min

### SECTION "B"

- i. Show that  $\beta = 3\alpha$ .
- ii. Derive the expression of magnetic torque of a current carrying coil in magnetic field.
- iii. Compute the power dissipation by current in a conductor.
- iv. Define electric flux also compute the electric flux through a sphere due to charge at centre.
- v. What do you mean by motional emf? Derive its relevant formula.
- vi. Define specific resistance and derive the expression for the temperature coefficient of specific resistance.
- vii. Define electrical potential difference and show that the electric field intensity is equal to the negative of potential gradient.
- viii. You are given the two plates of copper and (a) mica sheet of thickness 0.20mm and  $\epsilon = 6$  (b) a sheet of glass of thickness 3mm and  $\epsilon = 7$  (c) a sheet of paraffin of thickness 8mm and  $\epsilon = 2$ . Which of the above sheet would you use in order to get maximum capacitance? Explain mathematically.
- ix. Two straight conductors are placed parallel to each other 10cm apart carrying the currents of 12amp and 6amp in the same direction. Find the magnitude and direction of force acting on unit length of each also mention that these conductors attract or repel each other.
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- xv. The resistance of platinum resistance thermometer is  $200\Omega$  at  $0^\circ\text{C}$  and  $257.6\Omega$  when thermometer immersed in hot bath. What is the temperature of the bath? ( $\alpha = 0.00392^\circ\text{C}^{-1}$ )

### SECTION "C"

- Q1a) Briefly describe the motion of a charge particle in magnetic field also determine the charge to mass ratio of an electron by JJ THOMSON method.
- b) What is the parallel plate capacitor? Calculate the capacitance of parallel plate capacitor when (i) air is between the plates.(ii) dielectric medium is between the plate.
- Q2a) Describe the principle; construction and working of AC generator also calculate the induced emf.
- b) state and explain the Gauss's law and compute the electric field intensity of positively charged sphere.
- Q3a) State the Ampere's circuital law. Using Ampere's circuital law calculate the magnetic induction inside a solenoid.
- b) By using the of kinetic molecular theory show that pressure of the gas is  $P = \frac{1}{3} \rho \vec{V}^2$ .

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**MID TERM EXAMINATION 2015**

Class: XII-A(Com)

Paper: Statistics

Max. Marks: 50

Time: 2 Hours

**Note: Attempt any five questions:****Q1. (a) Construct a frequency table by forming the group 91 – 99, 100 – 108, 109 – 117.**

92, 115, 112, 106, 128, 109, 101, 121, 111, 120,  
111, 120, 121, 119, 117, 129, 100, 116, 96, 114,  
115, 99, 112, 103, 125, 110, 108, 120, 104, 108

**(b) Find class boundaries and relative frequency.****Q2. Calculate mean, median and mode.**

G – I	0 – 9	10 – 19	20 – 29	30 – 39	40 – 49	50 – 59	60 – 69
F	11	14	25	20	15	10	5

**Q3. Calculate fisher's index for the year 2015.**

Commodity	Price Quantity		Price Quantity	
	A	90	100	150
B	70	80	90	75
C	60	65	70	70

**Q4. The mean of 24 values is 40.**

Find (a) The mean if a value 68 is included in data.  
(b) The mean if a value 35 is excluded in data.

**Q5. The price of an item for 5 years are given below.**

Year	2001	2002	2003	2004	2005
Price	50	65	60	70	75

Find (a) price relatives by taking 2001 as base year.  
(b) Link relatives.

**Q6. (a) For the observations 2, 4, 6, 8, 10.**Show that  $\sum (x - \bar{x}) = 0$ 

(b) The mean of 12 numbers is 4 and the mean of another 20 numbers is 5 find combined mean.

**Q7. (a) A coin is tossed three times. Find the probability that at least two heads will appear.**

(b) Two dice are rolled find the probability that the sum of dots more than 8.

**Q8. A company employs 180 people in four departments as shown in table below.**

Department	A	B	C	D
No of Employee	40	30	60	50

Draw a pie chart to illustrate the information.

حصہ الف (کثیر الانتخابی سوالات)

سوال نمبر ۱: مندرجہ ذیل سوالات میں سے ہر ایک کیلئے درست جواب منتخب کیجئے۔

- |   |                   |                   |                      |
|---|-------------------|-------------------|----------------------|
| ۱۔ شامل نصاب ڈرامہ سمندر کا دل ان کی تحریر ہے۔                                | * غلام ربانی      | * انتظار حسین     | * مرزا وہیب          |
| ۲۔ یہ شاعر پہلے اسد تخلص فرماتے تھے۔  | * علامہ اقبال     | * غالب            | * درو                |
| ۳۔ غلام ربانی آگرہ کے سندھی افسانہ کا ترجمہ اس عنوان سے شامل نصاب ہے۔ * مجسمہ |                   | * بدلہ            | * نیا قانون          |
| ۴۔ شامل نصاب ”حمد“ کے شاعر ہیں۔   | * نظیر اکبر آبادی | * علامہ اقبال     | * حسرت موہانی        |
| ۵۔ جوش ملیح آبادی کو عام طور پر کہا جاتا ہے۔                                  | * شاعر عوام       | * شاعر قوم        | * شاعر انقلاب        |
| ۶۔ افسانہ مسافر میں مسافر کہا جانے والی بس میں سوار ہو گیا تھا۔               | * من آباد         | * گلبرگ           | * ماڈل ٹاؤن          |
| ۷۔ اردو کا پہلا ڈرامہ اس کو شاعر کہا جاتا ہے۔                                 | * لعل و گوہر      | * لیل و نہار      | * اندر سچا           |
| ۸۔ نظم اسرار قدرت کس شاعر کی تخلیق ہے۔  | * حالی            | * نظیر اکبر آبادی | * احسان دانش         |
| ۹۔ شاہ عبداللطیف بھٹائی کی شامل نصاب نظم کا نام ہے۔                           | * جشن بے چارگی    | * رات اور ریل     | * سرمائی             |
| ۱۰۔ افسانہ نیا قانون کے مرکزی کردار کا نام ہے۔                                | * عبدال           | * خیرو            | * منگو کوچوان        |
| ۱۱۔ شامل نصاب مضمون عزم جزم کس کتاب سے اخذ کیا گیا ہے۔                        | * کلیات حالی      | * مقالات سرسید    | * صبر خامہ           |
| ۱۲۔ اردو ادب میں ان کو عوامی شاعر کہتے ہیں۔                                   | * اقبال           | * جوش             | * نظیر اکبر آبادی    |
| ۱۳۔ افسانہ بدلہ کا ترجمہ کس نے کیا ہے؟  | * انتظار حسین     | * غلام عباس       | * ڈاکٹر حسرت کاسکجوی |
| ۱۴۔ شامل نصاب مضمون حسن الملک اس کتاب سے اخذ کیا گیا ہے۔                      | * کلیات حالی      | * خطبات مدراس     | * چند ہم عصر         |
| ۱۵۔ اردو غزل کے مسیحا کہلاتے ہیں۔   | * جوش ملیح آبادی  | * حسرت موہانی     | * مرزا غالب          |
| ۱۶۔ جوش ملیح آبادی کو عام طور کہا جاتا ہے۔                                    | * شاعر عوام       | * شاعر قوم        | * شاعر انقلاب        |
| ۱۷۔ شاہنامہ اسلام کے شاعر کا نام ہے۔  | * علامہ اقبال     | * حفیظ جالندھری   | * حالی               |
| ۱۸۔ افسانہ بدلہ میں گھوڑے کا نام ہے۔  | * گلاب            | * خیرو            | * پنچھی              |
| ۱۹۔ اردو اس زبان کا لفظ ہے۔   | * عربی            | * ترکی            | * ہندی               |
| ۲۰۔ اردو کے پہلے تنقید نگار ہیں۔  | * سرسید احمد خان  | * اقبال           | * الطاف حسین حالی    |

کل نشانات ۵۰

حصہ ب (مختصر جوابات کے سوالات)

- سوال نمبر ۲ (الف) مندرجہ ذیل میں سے کسی ایک اقتباس کی تشریح کریں۔  
 (ب) تشریح کردہ اقتباس کے مصنف کا نام تحریر کریں۔  
 (ج) تشریح کردہ اقتباس کے سبق کا عنوان تحریر کریں۔

(الف) کس بلا کے بولنے اور لکھنے والے تھے۔ بولنے تو معلوم ہوتا، ابوالہول کی آواز ہر اہم عصر سے تکرار ہی ہے۔ لکھتے تو معلوم ہونا، کرپ کے کارخانے میں تو پیں ڈھل رہی ہیں یا پھر شاہ جہاں کے زہن میں تاج کا نقشہ مرتب ہو رہا ہے۔

(ب) تقریر کے وقت منہ سے بھول جھڑتے تھے۔ آواز میں شیرینی اور دکھائی تھی۔ اکثر لوگ جوان سے ملنے یا کسی معاملے میں گفتگو کرنے آتے تو ان کی ذہانت اور لیاقت کے قائل ہو جاتے۔ ان کے خوش بیانی ایسی تھی کہ اکثر اوقات مخالف بھی مان جاتے تھے۔

(ج) ملک و ملت کی جنگ اب بھی جاری ہے لیکن نعرہ جنگ خاموش ہے فتح و شکست تو اسی لئے بنائے گئے ہیں کہ فتح و شکست ہوتی رہے۔ لیکن جنگ آزما کہاں ہے۔ شہادت کس کو نصیب ہوگی۔ ایسا حسین کہاں جس کو خود بید کی تلاش ہو۔

(۱۵)

سوال نمبر ۳: مندرجہ ذیل اشعار میں سے صرف تین کی تشریح شاعر کے حوالہ سے ساتھ کریں۔

- |  |                                    |
|--|------------------------------------|
| (۱) پکڑے جاتے ہیں فرشتوں کے لکھے پرنا حق   | آدی کوئی ہمارا دم تحریر بھی تھا    |
| (۲) جس کو فرور آج ہے یاں تا جوری کا        | کل اس پر یہیں شور ہے پھر نو گری کا |
| (۳) چمن میں کوئی اس کو سے نہ آیا           | گئی بہ باد بخت صبا کی              |
| (۴) زنداں میں بھی شورش نہ گئی اپنے جنوں کی | اب سنگ مداوے اس آشفہ سری کا        |
| (۵) کس سے پہچان وفا باندھ رہی ہے نبل       | کل نہ پہچان سکے گی گل تری صورت     |
| (۶) تمھاری یاد کے جب زخم بھرنے لگتے ہیں    | کسی بہانے تمھیں یاد کرنے لگتے ہیں  |

سوال نمبر ۴ (الف) مندرجہ ذیل میں سے کسی ایک جز کی تشریح کریں۔

- (ب) تشریح کردہ جز کی نظم کا نام تحریر کریں۔  
 (ج) تشریح کردہ جز کے شاعر کا نام تحریر کریں۔

- |   |                                       |
|---|---------------------------------------|
| (۱) اماں کی تھی بیٹی کی جدائی میں یہ حالت | چینوں میں ڈھلے جاتے تھے جذبات محبت    |
| تھا باپ کا یہ حال کہ اندوہ کا مارا        | انگھتا تھا تو دیوار کا لیتا تھا سہارا |
| لڑکی کا یہ عالم تھا کہ آپے کو سیٹھے       | گڑیا سی بنی بیٹھی تھی چادر کو لپیٹے   |

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|---|--|
| (۲) علی مرتضیٰ نے آج تاج ”ہل اٹھی“ پایا     | دلہن کی شکل میں اک بیکر صدق و وفا پایا |
| پدر کے گھر سے رخصت ہو کے زہرا اپنے گھر آئیں | تو کل کے خزانے، دولت مہر و وفا لائیں   |
| جہیز ان کو ملا جو کچھ شہنشاہ دو عالم سے     | ملا ہے درس ہم کو سادگی کا فخر آدم سے   |

(الف) مندرجہ ذیل میں سے کسی ایک نظم کا مرکزی خیال تحریر کریں۔

(ب) منتخب کردہ نظم کے شاعر کا مختصر تعارف تحریر کریں۔

شکست زنداں کا خواب ، اکبر اور مغربی تعلیم ، اسرار قدرت

سوال نمبر ۵ (الف) مندرجہ ذیل میں سے کسی ایک کا خلاصہ تحریر کریں۔

(ب) منتخب کردہ مضمون کے مصنف کا نام تحریر کریں۔

(ج) منتخب کردہ مضمون کے مصنف کا مختصر تعارف تحریر کریں۔

چور ، مجسمہ ، بدلہ ، سمندر کا دل

سوال نمبر ۶: اردو ڈرامہ نگاری کی مختصر تاریخ بیان کریں۔

اردو افسانہ نگاری کی مختصر تاریخ بیان کیجئے۔

حصہ ج (تفصیلی جوابات کے سوالات) کل نشانات ۳۰

سوال نمبر ۷: مندرجہ ذیل میں سے کسی ایک شاعر کے کلام کی خصوصیات تحریر کریں۔

خواجه میر درد ، علامہ اقبال ، فیض احمد فیض ، مرزا غالب

سوال نمبر ۸: مندرجہ ذیل میں سے کسی ایک نثر نگار کے طرز تحریر پر روشنی ڈالیں۔

رشید احمد صدیقی ، ڈاکٹر سید عبداللہ ، سرسید احمد خان ، الطاف حسین حالی