

Annual Examination 2013 – 14**Time: 3:00 Hrs.****M. M.****100****General Instruction :-**

Section A Reading 15

Section B Writing 20

Section C Grammar 10

Section D Literature 20

Section E Novel 15

Section F Listening and Speaking

Skill 10

Section G Reading Project 10

SECTION – A Reading

A.1 Read the passage carefully and Answer the Questions :-

1. It was the city's first indoor play park of its kind. Like a good mother, I was sceptical of virtually every aspect of it. How could it succeed? How would a set of contraptions in a room hold the attention of today's children? Don't call me paranoid : I stood with dozens of mothers in similar states of quandary.
2. The manager came up to me. "I told you, the child would have a blast," she laughed. And explained, "There are hardly any parks in our cities." She meant, hardly anywhere children can be themselves and like a Maria in "The Sound of Music", where they could climb a tree, scrap their knees, and tear their dresses. Most of the recreation now is limited to electronic activity, and given half a chance, children would jump for something more physically explorative. Even if it is simple stuff like climbing, whizzing own and jumping on a trampoline.
3. Latest research shows that computer games slow down brain development. The 'in' thing till yesterday, they are 'out' today.
4. Indeed, apart from making a zombie out of the child, research indicates that computer games only stimulate activity in the parts of the brain associated with vision and movement. It can also lead the child be more violent. The lack of mental calisthenics, curbs their agility in controlling their response to an unsavoury situation.
5. Moreover, most electronic games isolate the child from the group fun of playing outdoors. Playing with peers and talking a toss or two appreciably strengthens the child's tolerance of others. This behaviour is governed by the frontal lobe, which continues to develop in humans till about 20 years. The more this lobe is exercised during moments of restraint, the more the fibres connecting the neurons in this part of the brain thicken, improving the individual's control of reactions. Playing electronic games, research shows does not encourage the development of this lobe.
6. The maximum advantage, surprisingly, came from simple academic pursuits like reading aloud and doing arithmetic. Delhi psychiatrist Dr. Sanjay Chugh couldn't agree more. "The more you work the mind in diverse situation, the more it will strengthen."

7. So now parents know what to do – put away the placebos. After school and home assignment hours, the best thing they could do for their kid is invite his friends home and roll the carpet away!

A.1.1 Answer the Questions below :-

6

- (i) Why was the author sceptical of the indoor play park?
- (ii) What would children like to do most, when allowed to be themselves?
- (iii) Why are computer games 'out' these days?
- (iv) How can children be trained to control their reactions?
- (v) 'This behaviour' Para 5 refers to –
 - (a) playing electronic device
 - (b) playing with peers
 - (c) showing restraint
 - (d) exercise frontal lobe
- (vi) The word 'quandary' Para 1 mean same as – (a) confusion (b) fear (c) anger (d) illusion

A.1.2 Find words in the passage with same meaning :-

2

- (i) Complicated machine (Para 1)
- (ii) not morally respectable (Para 4)

A.2 Read the following passage carefully and Answer the Questions that follow :

7

The maximum growth of population is likely to take place in large and medium towns without adequate infrastructure and services. Slums, the segregated and deprived human settlements, represent a very dark and grim face of India and will continue to do so in future also.

Physical deprivation is followed by social and human deprivation. It is well known that the extremely deprived and the poor live in urban slums. The tackling of urban poverty and the removal of slums require public support and a range of institutional and participatory approaches. It requires a provision of social and economic infrastructure in poor areas. It also requires a broad-based provision of basic urban services within slums.

There is an emerging urban development problem of accommodating large population migrating from the rural areas along with the existing urban poor. The development process has put high stress on the rural population leading to 'depeasantisation' of the poor peasantry on one side and a shrinking labour absorption capacity of agriculture is forcing both agricultural labour and poor peasants to shift to urban areas in search of employment and livelihood.

This is accompanied by the displacement process of development strategy, where agricultural land is being acquired for infrastructure development (highways, dedicated railway corridors, SEZs, mining, dams, thermal / nuclear plants etc.), urban expansion, industrial development, modern shopping malls and other services.

Thus, the development process is initiating migration flows from the rural areas. This has two consequences: (i) it is leading to the development of squatters/slums within the existing cities and (ii) the emergence of Peri Urban Areas (PUAs). The PUA is defined as the location consisting

of a mixed population, which comprises poor households and producers on the one hand and environment degradation on the other. These are by – products of unplanned development in PUAs.

Specific health hazards arise when agricultural and industrial activities are mingled with residential use. Environmentally, PUAs serve as dumping grounds for urban waste and are recipients of polluting industries that are relocated from large cities. Often common property resources get eroded and exhausted by urban uses and a gradual loss of interest in maintaining them.

- A.2.1 (i) On the basis of your reading of the passage make notes on it using heading, sub heading, title and abbreviations. **5**
- (ii) Write a summary of the passage in not more than 80 words using the notes made **2**

SECTION – B Writing

- B.3 You are Surender / Surbhi. You are asked to write a NOTICE for the school notice board of your school informing the students of a friendly cricket match between the student of class XI & XII to be held in school. Write the notice giving all necessary information. **5**

OR

You want to sell your old furniture. Write an advertisement to be published in “Forsale” classified column of the ‘Indian Express’, New Delhi. (Word limit 50 words)

- B.4 The English Academy offers a course on ‘spoken English and Personality Development’ to school and college students. Write a letter to the Director to provide necessary details including the course fee. You are Ramesh / Neelam, 200- R, Lajpat Nagar, New Delhi. **7**

OR

Draft a letter to the Editor, ‘The Times of India’ New Delhi, giving your views on increasing craze for junk food among youngster. Sign yourself as Rakesh / Rekha.

- B.5 You are worried about the academic pressure on teenagers. In their zeal to satisfy the longing of their parents, the youngsters burn midnight oil and neglect their health and other useful co-curricular activities. Write an article pointing out the dangerous consequences of this academic pressure for the young. (150-200 words) **8**

OR

You are Santosh / Radha. You have been asked to address your class on the topic “Good Manners”. Prepare your speech. (150-200 words)

SECTION – C Grammar

- C.6 In the following passage one word has been omitted : **4**
- | | |
|---------------------------------------|------------|
| Recently / exhibition was held in our | an exhibit |
| Town. It was organized the district | (a) ----- |
| Authorities encourage development | (b) ----- |
| Of cottage industries the villages. | (c) ----- |
| It held in an open maiden near the | (d) ----- |
| Railway station. A temporary fence | (e) ----- |
| Erected all sides and temporary | (f) ----- |
| Stalls were built accommodate the | (g) ----- |
| Exhibits of different sorts and types | (h) ----- |

- C.7 Complete the paragraph :- 4
 Dear Papa,
 I am sorry **(a)** tell you that mother **(b)** been ill for the past three days. She has **(c)** suffering from cough; she has **(d)** temperature and requires to lie **(e)**. (f) doctor says she will be better **(g)** a few days. You need **(h)** be alarmed on account of her.
- C.8 Rearrange the following :- 2
 (i) policy / favourable / small / for / is not / business man / the new
 (ii) always / me / this / gentleman / grandfather / my reminds / of / old.

SECTION – Literature

- D.9 Read the extract and Answer the Questions :
 We speak like strangers, there's no sign of understanding in the air.
 This child is built to my design
 Yet what he loves I cannot share
- (i) Who are 'we' referred to here? 1
 (ii) Explain the phrase ".....the child is built to my design". 1
 (iii) Why do 'we' mentioned here' speak like strangers? 1
 (iv) How is the relationship between we as your understand from the extract? 1

OR

A sweet face

My mother's, that was before I was born.

And the sea, which appears to have changed less,

Washed their terribly transient feet.

- (i) Name the poem and the poet? 1
 (ii) What has been described in these lines? 1
 (iii) What is the comparison made in these line? 2
- D.10 Answer any five of these Question [30-40 words] :- 5x2 =10
 (i) How did disaster strike 'wavewalker'?
 (ii) What were the funery treasures found in the pharaoh's tomb.
 (iii) Why did Albert see no point in learning dates and facts?
 (iv) Why is Mrs. Pearson always ordered about by her family members?
 (v) Has the growth of world population contributed to the critical environment situation today?
 (vi) Mention any two reasons (ways) in which Mr. (rocker Harris is different from the other teachers.

- D.11 Imagine you are the one who assisted Dr. Andrew in delivering the baby of Susan Morgan. Write what happened that night after the baby had a still baby. 6

OR

Mention the three phases of the author's relationship with his grandmother before he left the country to study abroad.

SECTION – E Novel

- E.12 How did the ghost of Sir Simon make Virginia see. 'What life is and what death signifies, and why love is stronger than both?' 8
- E.13 Describe the funeral procession of the ghost? 7

Section F Listening and Speaking Skill

10

Section G Reading Project

10

** ALL THE BEST **

Annual Examination 2013 – 14**Time: 3:00 Hrs.****M. M. 100**

General Instruction :-

Section – A Question No. 1 to 10 carry **One Mark** each.Section – B Question No. 11 to 22 carry **Four Marks** each.Section – C Question No. 23 to 29 carry **Six Marks** each.**Section – A**

- Q.1 Let $A = \{2, 4, 6, 8\}$ and $B = \{6, 8, 10, 12\}$. Write $A \cup B$ and $A \cap B$.
- Q.2 Write the relation $R = \{(x, x^3) : x \text{ is a prime number less than } 10\}$ in roster form.
- Q.3 Prove that $\frac{\cos 7x + \cos 5x}{\sin 7x - \sin 5x} = \cot x$.
- Q.4 Find the multiplicative inverse of $2 - 3i$.
- Q.5 Solve the inequality $37 - (3x + 5) \geq 9x - 8(x - 3)$.
- Q.6 Ravi obtained 70 and 75 marks in first two unit test. Find the minimum marks he should get in the third test to have an average of at least 60 marks.
- Q.7 How many chords can be drawn through 21 points on a circle?
- Q.8 If the angle between two lines is $\frac{\pi}{4}$ and slope of one of the lines is $\frac{1}{2}$, find the slope of the other line.
- Q.9 Find the centre and radius of the circle $x^2 + y^2 + 8x + 10y - 8 = 0$.
- Q.10 Find the co-ordinates of the point which divides the line segment joining the points $(1, -2, 3)$ and $(3, 4, -5)$ in the ratio 2 : 3 externally.

Section – B

Q.11 Prove that : $\tan 4x = \frac{4 \tan x (1 - \tan^2 x)}{1 - 6 \tan^2 x + \tan^4 x}$.

OR

Prove that : $\cos 6x = 32 \cos^6 x - 48 \cos^4 x + 18 \cos^2 x - 1$

Q.12 Using P.M.I., prove that for all $n \geq 1$

$$1^2 + 2^2 + 3^2 + 4^2 + \dots + n^2 = \frac{n(n+1)(2n+1)}{6}$$

Q.13 Convert the complex number $\frac{-16}{1+i\sqrt{3}}$ into polar form.

Q.14 A manufacturer has 600 litres of a 12% solution of acid. How many litres of a 30% acid solution must be added to it so that acid content in the resulting mixture will be more than 15% but less than 18%?

Q.15 Find the number of arrangements of the letter so f the word INDEPENDENCE. In how many of these arrangements :

(i) Do the words start with P.

(ii) Do all the vowels always occur together.

(iii) Do all the vowels never occur together. (iv) Do the words begin with I and end in P?

Q.16 Find the value of N so that $\frac{a^{n+1} + b^{n+1}}{a^n + b^n}$ may be the geometric mean between a and b.**OR**

If $a\left(\frac{1}{b} + \frac{1}{c}\right), b\left(\frac{1}{c} + \frac{1}{a}\right), c\left(\frac{1}{a} + \frac{1}{b}\right)$ are in AP, prove that a, b, c are in AP.

- Q.17 Find the equation for the ellipse that has major axis on the x -axis and passes through the points (4,3) and (6,2).
- Q.18 A point R with x -coordinate 4 lies on the line segment joining the points $p(2,-3,4)$ and $(8,0,10)$. Find the co-ordinates of the point R.

Q.19 Evaluate the limit : $\lim_{x \rightarrow 1} \left[\frac{x-2}{x^2-x} - \frac{1}{x^3-3x^2+2x} \right]$ OR $\lim_{x \rightarrow 0} \left[\frac{\tan x - \sin x}{x^3} \right]$.

Q.20 Verify by the method of contradiction, the following statement : $p : \sqrt{7}$ irrational.

Q.21 Calculate the mean, variance and standard deviation for the following distribution :

Class	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency	3	7	12	15	8	3	2

- Q.22 Two students Anil and Ashima appeared in an examination. The probability that Anil will qualify the examination is 0.05 and that Ashima will qualify the examination is 0.10. The probability that both will qualify the examination is 0.02. Find the probability that :
- Both Anil and Ashima will not qualify the examination.
 - At least one of them will not qualify the examination.
 - Only one of them will qualify the examination.

OR

A committee of two persons is selected from two men and two women. What is the probability that the committee will have – (i) No man (ii) One man (iii) Two man

Section – C

- Q.23 Find the coefficients of x^5 in the product $(1+2x)^6(1-x)^7$ using binomial theorem.
- Q.24 If a and b are the roots of $x^2 - 3x + p = 0$ and c, d are roots of $x^2 - 12x + q = 0$ where a,b,c,d form a G.P. Prove that $(q + p) : (q - p) = 17 : 15$.

OR

If p, q, r are in GP and the equation, $px^2 + 2qx + r = 0$ and $dx^2 + 2ex + f = 0$ have a common root, then show that $\frac{d}{p}, \frac{e}{q}, \frac{f}{r}$ are in A.P.

- Q.25 A line is such that its segment between the lines $5x - y + 4 = 0$ and $3x + 4y - 4 = 0$ is bisected at the point (1,5). Obtain its equation.
- Q.26 The cable of a uniformly loaded suspension bridge hangs in the form of a parabola. The roadway which is horizontal and 100m. long is supported by vertical wires attached to the cable, the longest wire being 30m. and the shortest being 6m. Find the length of a supporting wire attached to the roadway 18m. from the middle.
- Q.27 Find the derivative of $f(x) = x \sin x$ from the first principle. Also find value of $f'(x)$ at $x = \frac{\pi}{2}$.
- Q.28 The mean and standard deviation of 100 observations were calculated as 40 and 5.1, respectively by a student who took by mistake 50 instead of 40 for one observation. What are the correct mean and standard deviation?

OR

The mean and variance of 7 observations are 8 and 16 respectively. If five of the observation are 2, 4, 10, 12 and 14. Find the remaining two observations.

- Q.29 On her vacations Veena visits four cities (A, B, C and D) in a random order. What is the probability that she visit.
- A before B?
 - A before B and B before C?
 - A first and B last?
 - A either first or second?
 - A just before B
 - A, B, C, D in alphabetic order?

Annual Examination 2013 – 14**Time: 3:00 Hrs.****M. M. 100**

- Q.1 What do you mean by Accounting? Explain any two advantage of accounting . 2
- Q.2 Explain Money measurement concept. 2
- Q.3 Write any two difference between Income & Expenditure Account and Profit & Loss Account 2
- Q.4 Write any three difference between Capital Expenditure & Revenue Expenditure. 3
- Q.5 Write any three difference between Provision and Reserve. 3
- Q.6 Calculate due date for following Bills (additional information given below the question). 3

	Date of Bill	duration
(a)	23 rd Nov., 2008	2 Months
(b)	30 th July, 2010	60 days
(c)	12 th June, 2009	60 days

Additional Information

Emergency holiday – 1st Oct., 2010.Already declared public holiday- 14th August 2009.

- Q.7 Following information relates to Royal Club as on 31st December 2006 as per Receipts and Payments A/c:

Receipts	Amount	Payments	Amount
		By salaries	
		2005- 10000	
		2006-180000	
		2007- 12000	202000

Additional Information:

(i) Salaries unpaid in 2005 ` 18000

(ii) Salaries unpaid of 2006 ` 15000

(iii) Prepaid salaries in 2005 ` 5000 (` 3000 for 2006 and remaining for 2007)

Show how much salaries be debited to Income and Expenditure Account and show in closing Balance Sheet 3

- Q.8 A profit & loss a/c shows total of credit side ` 118000 & total of Debit side (excluding manager commission) ` 100000. The manager is entitled to a commission of 25% on net profit after charging his commission find out amount of manager commission, pass adjustment entry for this commission & prepare P & L a/c from the above information. 4

- Q.9 Explain any two advantage and any two limitation of Single Entry System. 4

- Q.10 Prepare Closing Entries for following Accounts 4

(a) Purchase Return A/c (b) Royalty A/c (c) Depreciation A/c (d) Trading A/c (Gross Profit)

- Q.11 From the information given below draft the receipts & payments Account of Friends Club. Delhi for the year ended 31st March 2010 4

cash balance on :- 1 st April 2009	4400	Rent realised from club hall	5250
Subscription received of current year	35000	Salary & wages Paid	21500
Subscription Outstanding of current year	2400	Honorarium of Secretary	2500
Subscription received for next year	2600	Interest received	2950
Depreciation on furniture	500	Printing & stationery	350
Donation received	8000	General expenses	900
Entrance fees received	4300	Insurance premium paid	350
Electric charges	3440	Sale of old news papers	200
Taxes	500	Sale of old furniture (Book Value ` 1000	800
Out standing Salary	1500	Prepaid Insurance	50

- Q.12 Pass rectification entries for following errors : 4
- (i) An Office Computer Purchased for ₹ 27,000 was entered through Purchase Book ₹ 7000.
- (ii) Rent Received ₹ 4200 but posted in commission A/c Debit side ₹ 4000.
- Q.13 (i) Star purchased goods from Moon ₹ 150000. 25% VAT include in this price. Pass necessary Journal entry in the books of Moon.
- (ii) Shivani purchased a machine of ₹ 100000 from Rahul on credit. She paid ₹ 12000 for insurance for machine by cheque & paid ₹ 8000 for transportation expenses in cash for this machine. Pass journal entry for the above transaction in the books of Shivani. 4
- Q.14 Following Balance are given in trial Balance. 4

Provision for Bad debts	=	Rs.7000
Debtors	=	Rs.104000
Provision for Discount	=	Rs.1000
Bad debts	=	Rs 5000
Discount allowed a/c	=	Rs. 400

Adjustment –

Further Bad Debts	=	Rs.4000
Provision for Bad debts to be maintained	=	5%
Provision for Discount	=	5%

Prepare Provision for bad Debt A/c, & Provision for Discount on debtors A/c.

- Q.15 Mr. Ashok does not keep his books properly. Following information is available from his books. 6

	Jan. 01, 2005	Dec.31, 2005
Sundry creditors	45,000	93,000
Loan from wife	66,000	57,000
Sundry debtors	22,500	1,28,000
Land and Building	89,600	90,000
Cash in hand	7,500	8,700
Bank overdraft	25,000	7300
Furniture	1,300	1,300
Stock	34,000	25,000

Depreciation on Building 20% & Furniture 10% during the year Mr. Ashok sold his private car for ₹ 50,000 and invested this amount into the business. He withdraw from the business ₹ 1,500 per month upto June 30, 2005 and thereafter ₹ 4,500 per monthly as drawings. You are required to prepare the statement of profit or loss and statement of affair as on December 31, 2005.

- Q.16 From the following information prepare a Bank-Reconciliation Statement and find out the balance of Pass book at the end on 31st December, 2007. 6

- 1- Overdraft balance as per Cash Book as on 31st December, 2007 was ₹ 900.
- 2- The bank has collected interest on securities and credited the account for ₹ 540.
- 3- Cheques of ₹ 8,000 issued on 26th December, 2007 out of which cheques of ₹ 6,500 were presented after 31st December, 2007.
- 4- Bank has given debit of ₹ 250 on account of interest on overdraft and charged ₹ 75 for locker charges.
- 5- Cheques worth ₹ 2,500 were deposited in the bank but out of this cheques of ₹ 1,000 were not collected yet.

- Q.17 Record following transaction in Cash Book of Sohan with Cash & Bank Column: (March 2010) 6

- 1 Balance : Cash ₹ 18000, Bank overdraft ₹ 25000.
- 4 Received a cheque from Sumit & Banked same day ₹ 12000.
- 12 Cash with drawl from Bank ₹ 7000 for office expenses
- 19 Cheque received from Rakesh ₹ 10000 & endorsed to Neha same day.
- 27 Deposit the cash balance in excess of ₹ 1000 in Bank.

Q.18 Mohan Limited purchased a plant on 1st Jan. 2008 for ₹ 60000. It bought another plant on 1st April 2009 for ₹ 40000. On 1st Oct. 2010, plant bought on 1st Jan. 2008 was sold for ₹ 40000 and a New plant purchased for ₹ 30000 on the same date. Depreciation is charged at 10% P.A. on the diminishing balance. Show the plant a/c for three years assuming that account are closed on 31st December each year. **8**

Q.19 Arun sold goods to Varun for ₹ 6,000 on 1st January, 2007 and on the same day drew a bill on Varun for 4 months. Varun accepted the bill and returned it to Arun. Arun discounted the bill on 1st March 2007 from bank @ 8% p.a. The bill was dishonoured on the due date and the noting charges paid by bank amounted to ₹ 200. On 5th May, 2007, Varun accepted a new bill for 2 Months for the amount due together with interest @12% p.a. for the extended period of the bill. On the due date of new bill Varun become insolvent only ₹ 3000 paid by him.

You are required to pass journal Entries in the books of Varun. **8**

Q.20 From the following balances of the year ending 31 December, 2007 and additional information prepare Trading and Profit and Loss Account and Balance-Sheet of M/s Raj Kumar and Sons. **10**

Particulars	Amount Debit ₹	Amount Credit ₹
Capital	-	80500
Furniture	6600	-
Machinery	90000	-
Scooter	12880	-
Return	7410	5150
Opening Stock	25760	-
Purchase and Sales	108830	180450
Bad-Debts	970	-
Carriage	2250	-
Trade Expenses	3860	-
Interest on investment	-	2250
Bank Loan (Taken 1 st April 2007)	-	16000
Interest on Loan	960	-
Commission Received	-	3000
Insurance & Taxes	6440	-
Scooter Expenses	8370	-
Salaries	14170	-
Cash-in hand	14940	-
Debtors Trade Receivable	9660	-
Creditors Trade Payable	-	25750
Total	313100	313100

Additional Information :

1-Stock on 31-12-2007 was valued at ₹ 13,970/-

2-Interest on loan has to be paid @ 10% p.a.

3-Salaries have been paid for 10 months.

4-Depreciation on Furniture and Machinery @ 5% and on Scooter @ 15 %

5-Commission includes ₹ 900/- being commission received in advance.

6- Goods loss by fire ₹ 7500 and Insurance company accepted a claim of ₹ 5000

OR

From the following Receipts & payments a/c of Defense Club & from the information supplied prepare the Income & Expenditure a/c for the year ended 31st Dec. 2009 and the Balance Sheet as at that date : **10**

Receipts & payments a/c 31st Dec. 2009

Receipts	`	Payments	`
To Balance (1 st Jan. 2009)	3500	By Postage stamp	4000
To subscription : 2008	2500	By General expenses	3000
2009	10000	By electricity charges	2000
2010	2000	By Books	15000
To Rent received	2000	By News papers	4000
To sale of books (Book value ` 8000)	5000	By Balance (31 st Dec. 2009)	2000
To Donation	4000		
To Sale of old news paper	1000		
Total	30000	Total	30000

Additional Information's :

- (i) The Club has 50 members each paying an annual subscription of ` 250. Subscriptions outstanding on 31st. Dec. 2008 ` 3000 & Advance subcration on 31st December 2008, of ` 1500 for 2009.
- (ii) On 31st Dec. 2009 Stock of Postage stamp ` 1000.
- (iii) 60% Donation will be capitalized
- (iv) Depreciation charged on Furniture 10% & Books ` 500.
- (v) On 1st January 2009, the club owned building valued at ` 100000. Furniture worth ` 10000 books ` 10000 and Postage stamp ` 800

ORAL →

10

Annual Examination 2013 – 14**Time: 3:00 Hrs.****M. M. 70****General Instruction:-**

All questions are compulsory. Answer to questions carrying **1 mark** should not exceed **30** words each. Answer to questions carrying **2 marks** should not exceed **40-60** words each. Answer to questions carrying **3 marks** should not exceed **60-80** words each. Answer to questions carrying **5 marks** should not exceed **100-125** words each.

PART – A

- | | | |
|------|---|---|
| Q.1 | Explain about rolling friction. | 1 |
| Q.2 | Name the courses available in the field of physical education in India. | 1 |
| Q.3 | What are anabolic steroids? | 1 |
| Q.4 | Write down the Olympic Oath. | 1 |
| Q.5 | What do you mean by socialization? | 1 |
| Q.6 | Define Waist-Hip Ratio. | 1 |
| Q.7 | What are gliding joints? | 1 |
| Q.8 | What are cardiac muscles? | 1 |
| Q.9 | Mention the principles of integrated physical education. | 2 |
| Q.10 | Explain the concept of adapted physical education. | 2 |
| Q.11 | Discuss about any two importance of physical education. | 2 |
| Q.12 | Discuss any two characteristics of profession. | 2 |
| Q.13 | Discuss any two causes of hypertension. | 2 |
| Q.14 | Discuss the effect of tobacco on sports person in brief. | 3 |
| Q.15 | Discuss about health related careers in physical education. | 3 |
| Q.16 | What is force? Discuss the production of force in brief. | 3 |
| Q.17 | Mention the benefits of “Sports for all”. | 3 |
| Q.18 | Write down the origin of modern Olympic games. | 5 |
| Q.19 | Explain the process socialization in various institutions. | 5 |
| Q.20 | Explain the “Physical Best” test in detail. | 5 |
| Q.21 | Explain about the various organs on respiratory system. | 5 |

PART – B

- | | | |
|------|---|-------|
| Q.22 | Write in brief about three fundamental skills of your game. | 3 |
| Q.23 | Briefly discuss about Arujna Award. | 2 |
| Q.24 | Discuss the types of bone injuries and their prevention. | 3 |
| Q.25 | Write a short note on CBSE sports in detail. | 5 |
| Q.26 | Explain any two warming up exercises of your games. | 2 |
| Q.27 | Draw a neat diagram of the field with measurement. | 3+2=5 |

**** ALL THE BEST ****

Annual Examination 2013 – 14**Time: 3:00 Hrs.****M. M. 100****General instructions:**

1. All questions in both the sections are compulsory. Marks for questions are indicated against each.
2. Questions **1 - 5** and **16 - 20** are very short answer questions carrying **1 mark**. They are to be answered in one sentence each.
3. Questions **6 - 8** and **21 - 23** are short answer questions carrying **3 marks** each. Answers to them should not normally exceed 60 words each.
4. Questions **09-12** and **24 - 27** are also short answer questions of **4 marks** each. Answers to them should not normally exceed 70 words each.
5. Questions **13- 15** and **28 -31** are long answer questions of **5 marks** each. Answers to them should not normally exceed 100 words each.
6. OTBA O. No. **31 & 32** are **5 Marks** Each.

Section – A Statistics

- Q.1 Define the concept of universe as used in statistics? **1**
- Q.2 Who are agent of productions? **1**
- Q.3 What kind of data are contained in the census of population and national income estimates for the Government? **1**
- Q.4 Define non-sampling errors? **1**
- Q.5 What is the principal objective of classification of data? **1**
- Q.6 The following data is of the age 25 students of class XI. Arrange there data in the form of frequency distribution. **3**
- 15, 16, 17, 16, 18, 18, 17,15, 15, 16, 16, 17, 15
- 15, 15, 16, 16, 18, 15, 17, 17, 18, 10, 16, 15
- Q.7 What do you mean by circular diagram? Present the data on the expenditure of a labour-family in the form of pie-diagram : **3**

<u>Items of expenditure</u>	<u>% of Income spent</u>
Food	65
Clothing	15
Housing	12
Fuel & Light	5
Others	3

- Q.8 What is false base line? Describe the general rules of constructing a graph. **1 + 2 = 3**
- Q.9 Calculate mean from the following data : **4**

Marks	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
No. of students	4	16	56	97	124	137	146	150

- Q.10 Given the following data, calculate mode, using the grouping technique : **4**

Size	2	3	4	5	6	7	8	9	10	11	12	13
Frequency	3	8	10	12	16	14	10	8	17	5	4	1

Q.11 Calculate mean deviation and its coefficient from the median of the following data : 4

Size	100-120	120-140	140-160	160-180	180-200
Frequency	4	6	10	8	5

Q.12 Find out index number with fisher's method:- 4

	Commodity	Price	Quantity	Price	Quantity
A		70	7	80	6
B		62	3	74	2

Q.13 (i) In a fancy dress competition, two judges accorded the following ranks of eight participants. Find correction. 2

Judge x	8	7	6	3	2	1	5	4
Judge y	7	5	4	1	3	2	6	8

(ii) Calculate standard deviation from direct method : 3

Size	0-2	2-4	4-6	6-8	8-10	10-12
Frequency	2	4	6	4	2	6

Q.14 Find out index value from the following data using :- 5

(i) Laspeyre's method (ii) Pasche's method (iii) Fisher's method

Commodity	P_0	P_1	Q_0	Q_1
A	5	10	4	5
B	7	5	3	9
C	2	8	1	2

Q.15 Calculate Mean deviation from Median. 5

Size	4	6	8	10	12	14	16
Frequency	2	4	5	31	2	1	4

Section – B Indian Economic Development

Q.16 What was the main reason for the stagnation in the agricultural sector under the British rule? 1

Q.17 What is global warming? 1

Q.18 What are the indicators of health status of country? 1

Q.19 What is meant by casualisation of work force? 1

Q.20 Why do we need to invest in human capital? 1

Q.21 State any three reasons for development of railways in India. 3

Q.22 Why did India opt for mixed economy? 3

Q.23 What was the purpose of liberalization? 3

Q.24 List some of the poverty alleviation programmes initiated by the Government? 4

Q.25 What is agricultural marketing? What are the problems faced by farmers in marketing of their agricultural produce? 4

Q.26 Distinguish between conventional and non-convention sources of energy? 4

Q.27 Explain the concept of 1991 New Policy? 4

Q.28 Compare the demographic indicators of India with china? Pakistan. 5

Q.29 Discuss five rules which should be followed to achieves sustainable development? 5

Q.30 Mention any Five measures to solve the problem of unemployment in India 5

OTBA (OPEN TEXT BASED ASSESSMENT)

Q.31 "After years of research and development in agriculture, India now sees the merit of developing its indigenous varieties of crops". Do you agree with the statement? Justify you answer. 5

Q.32 Why is management of agricultural waste an important source of revenue gevenue generation ? Explain. 5

Annual Examination 2013 – 14**Time: 3:00 Hrs.****M. M. 70****General Instructions:**

- (i) All questions are compulsory.
- (ii) The question paper consists of four sections A, B, C and D.
 - Section–A is Q. No. 1 to 8 contains 8 questions of 1 mark each.**
 - Section–B is Q. No. 9 to 14 of 5 questions of 2 marks each.**
 - Section–C is Q. No. 15 to 21 of 8 questions of 3 marks each.**
 - Q. No. 22 carry 4 marks each.**
 - Section–D is Q. No. 23 to 25 of 3 questions of 5 marks each.**
 - OTBA → Q. No. 26 & 27 of 2 Question of 5 Marks Each.**
- (iii) Internal choice is provided in these questions.
- (iv) Wherever necessary, the diagrams drawn should be neat and properly labelled.

Section - A

- Q.1 Define hormone.
- Q.2 Name the T₃ and T₄ components of thyroid hormone.
- Q.3 Why is caecum large sized in certain herbivores?
- Q.4 Write the full form of EMP pathway.
- Q.5 Write any one difference between chlorophyll a & chlorophyll b.
- Q.6 Name the hormone which signals the closure of stomata during severe drought or severe solar radiations?
- Q.7 Define a species.
- Q.8 Which types of bonds are found in proteins and polysaccharides?

Section - B

- Q.9 What is the source of HCl? Give its functions.
- Q.10 Write the role of diaphragm and intercostal muscles in breathing process.
- Q.11 What is the role of K⁺ ion in the opening of stomata?
- Q.12 Why is Neopalina called connecting link between annelida and Mollusca?
- Q.13 Differentiate between Apocarpous and syncarpous ovary.
- Q.14 Define synapsis. List the phase of its occurrence.

Section – C

- Q.15 Differentiate between cerebrum and cerebellum.
- Q.16 Differentiate between PCT and DCT.
- Q.17 Name the largest gland of human body. Describe its roles.
- Q.18 Differentiate between glycolysis and Krebs's cycle.
- Q.19 How is a dorsiventral leaf different from an isobilateral leaf?
- Q.20 Describe the family fabaceae. Give its floral formula.
- Q.21 Diagrammatically explain the concept of activation energy.
- Q.22 Organic substances are translocated in upward and downward direction through phloem.**
- (i) **What is the effect of blocking the phloem?**
- (ii) **What in your view, phloem sap chemically consist of?**

Section – D

- Q.23 Discuss in detail the disorders associated with malfunctioning of adrenal glands.

OR

Any five principle hormones produced by the anterior pituitary, name and explain the function of each.

- Q.24 Describe the structure and function of an eye.

OR

Explain resting potential of a neuron. Explain the conduction of nerve impulse with an emphasis on the role of Na-K pumps. **1½+3½ =5**

- Q.25 (i) Describe the structure and function of a neuron.
- (ii) Differentiate between tubular secretion and selective reabsorption.

OR

Describe the mechanism of respiration.

OTBA (OPEN TEXT BASED ASSESSMENT)

- Q.26 Educated rural youth of a country is less prone to health hazards as against his urban peer. Comment **5**
- Q.27 “**India Shining**” picture has a grey side also. Comment upon this statement. **5**

**ALL THE BEST **

Annual Examination 2013 – 14

Time: 3:00 Hrs.

M. M. 70

General Instructions:- c Attempt all questions

Q. No. 1 to 8 (1 Mark each),

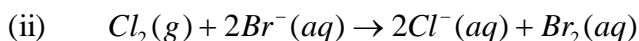
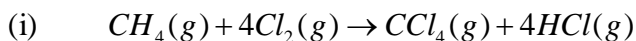
Q. No. 9 to 16 (2 Marks each),

Q. No. 17 to 25 (3 Marks each),

Q. No. 26 Value Based (4 Marks)

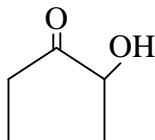
Q. No. 27 to 29 (5 Marks each)

Q.1 Identify the oxidants and reductants in the following reaction :-

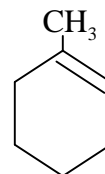
Q.2 What type of salts are formed by H_2O_2 ?Q.3 Represent the diagonal relationship of elements of 2nd and 3rd period of the periodic table.Q.4 White fumes appear around the bottle of anhydrous $AlCl_3$. Why?

Q.5 Give IUPAC name for

(i)



(ii)



Q.6 What is Baeyer's test?

Q.7 Which gas caused Bhopal Gas tragedy in 1984?

Q.8 Write Dalton law of partial pressure.

Q.9 What do you understand by open close & isolated system? Explain with suitable example.

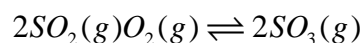
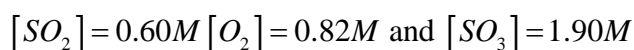
Q.10 State le Chatelier's principle.

Q.11 If the density of methanol is 793 kgL^{-1} ; what is its volume needed for making 2.5 l of its 0.25 M solution?

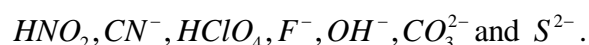
Q.12 Calculate the number of electrons which will together weight one gram.

Q.13 Would you expect the 1st ionization enthalpies of two isotopes of the same elements to be same or different?

Q.14 State Fayon's rule?

Q.15 Critical temperature for CO_2 and CH_4 are $31.1^\circ C$ and $-81.9^\circ C$ respectively. Which of these has stronger intermolecular forces & why?Q.16 For the reaction $2Cl(g) \rightarrow Cl_2(g)$ what are the signs of ΔH and ΔS give reason?Q.17 What is K_c for the following equilibrium when the equilibrium, Concentration of each substance is

Q.18 What do you meant by conjugated acid – base pair? Find conjugated acid / base for the species.



- Q.19 Balance the following reaction in basic medium by oxidation no. method or by ion exchange method –
 $P_4(s) + (OH^-)_{aq} \rightarrow PH_3(g) + H_2PO_2^-(aq)$.
- Q.20 Will CCl_4 give white ppt of $AgCl$ on heating it with Silver Nitrate? Give reason.
- Q.21 Describe the method; which can be used to separate two compounds with different solubilities in a solvent S.?
- Q.22 Write structures of all alkenes which on hydrogenation give two methylbutane.
- Q.23 Why does benzene undergoes electrophilic substitution reaction easily and nucleophilic substitution with difficulty?
- Q.24 Explain BOD.
- Q.25 Give reason for –
 (i) covalent bonds are directional while ionic bonds are non-directional.
 (ii) ethyne molecule is linear.
- Q.26 Manu and his father went to a shop to purchase a bag of cement to repair the broken stairs. They brought a bag of cement and mixed a portion of the powdered cement with water and started plastering. They found that the paste of cement was being applied it hardened immediately. It became difficult to apply the paste. They immediately went to the shop & complained to the shopkeeper. He replaced the bag, the new bag did not harden immediately when mixed with small quantity of water.
 (i) What is the average composition of cement?
 (ii) Why did cement mixed with water become hard immediately in the 1st case?
 (iii) Why was cement used from the new bag fit for use?
- Q.27 What is meant by 'demeralised' water and how can it be obtained?

OR

Complete the equations :-

- (i) $NaH + CO \rightarrow ?$ (ii) $CaC_2 + H_2O \rightarrow ?$ (iii) $LiH + H_2O \rightarrow ?$
 (iv) $D_2O + SO_3 \rightarrow ?$ (v) $Na_2O + D_2O \rightarrow ?$

- Q.28 Why is Br_3 a stronger Lewis acid than BF_3 ?

OR

Explain the formation of Dimer of Aluminium chloride in benzene.

- Q.29 Derive relation between C_p & C_v .

OR

Explain the term :-

- (i) Extensive & intensive properties (ii) Gibbs' free energy (iii) Spontaneity

** ALL THE BEST **

Annual Examination 2013 – 14**Time: 3:00 Hrs.****M. M. 70****General instruction:**

Question 1 to 8 carrying **one mark** each, 9 to 16 carrying **two marks** each,
 Question 17 to 25 carrying **three marks** each, and question 26 carrying **four marks**
 Question 27 to 29 carrying **five marks** each.

- Q.1 What is the stress required to double the length of wire having young modulus Y? **1**
- Q.2 Can acceleration be produce without doing work? **1**
- Q.3 If pressure is made four times, what will be effect on the velocity of sound? **1**
- Q.4 At which temperature and pressure a gas obey Boyle's law? **1**
- Q.5 What is the change in internal energy in an isothermal process? **1**
- Q.6 Draw position time graph of two objects having zero velocity. **1**
- Q.7 A satellite does not need any fuel to circle around the earth. Why? **1**
- Q.8 Two row boats moving parallel to each other in the same direction are pulled towards each other. Name the physical principle that can explain the observation? **1**
- Q.9 Can a room be cooled by opening the door of a refrigerator in a closed room? Explain. **2**
- Q.10 Find specific heat capacity for solids? **2**
- Q.11 A constant force on a body of mass 3kg. changes its speed from 2.0m/s to 3.5 m/s in 25sec. The direction of motion of the body remain unchanged. What is the magnitude and direction of the force? **2**
- Q.12 A physical quantity P is given by $P = \frac{a^3b^2}{\sqrt{cd}}$ percentage error in the measurement of a, b, c and d are 1%, 3%, 4% and 2% respectively. What is % error in the quantity P ? **2**
- Q.13 Explain how a cat is able to land gently on its feet after a fall taking the advantage of the law of conservation of angular momentum? **2**
- Q.14 Water rises in a capillary tube, whereas mercury falls in a capillary tube? Explain. **2**
- Q.15 Write the limitations of first law of thermodynamics. **2**
- Q.16 Explain why solids can support both transverse and longitudinal waves, but only longitudinal waves can propase in gases. **2**
- Q.17 A hunter targeted a monkey sitting on tree. When hunter fire the gun, monkey jumps from the tree, can bullet hit the monkey. If monkey can not be jumps then what happen with the monkey? Explain. **3**
- Q.18 (i) Prove that the total energy of particle in S.H.M. is constant. **1½+ 1½=3**
 (ii) Show graphically variation of kinetic energy and potential energy with time of a particle in S.H.M.
- Q.19 State Newton's formula for sound waves in air point out the error and discuss Laplace's correction. **3**

- Q.20 A solid cylinder of mass 20kg rotates about its axis with a constant angular speed 100 rad/sec. The radius of the cylinder is 0.25m. What is the kinetic energy associated with the rotation of the cylinder? What is the magnitude of angular momentum of the cylinder about its axis? **3**
- Q.21 Show that the work done in a cyclic process is equal to the area enclosed by the cycle on P-V diagram. **3**
- Q.22 State second law of thermodynamics. **3**
- Q.23 Show that in case of open organ pipe even and odd both harmonics formed. **3**
- Q.24 When we rub our hands together, they are warmed but only upto a final maximum temperature. Why? **3**
- Q.25 Show that for small oscillation the motion of simple pendulum is simple harmonic. Derive an expression for its time period. Does it depend on the mass of bob? **3**
- Q.26 Suhana was reading a book on the biography of Issac Newton. She read that Newton was sitting under an apple tree when a falling apple lad him to develop a whole new science of gravity. After reading book, Suhana realized that every phenomenon in universe has some scientific fact associated with it depends on us whether we look for a scientific fact or associate a superstition with it? **4****
- (i) **What values do you get from this?**
- (ii) **How can you find the mass of earth using law of gravitation?**
- (iii) **What are the factors affecting G?**
- Q.27 State the law of equipartition of energy, using this law to determine the value of C_p , C_v and R for – **5**
- (i) Monoatomic (ii) diatomic (iii) polyatomic gases.
- OR**
- Find out the expression for pressure of an ideal gas contained in a container. Also find the relation of pressure with absolute temperature.
- Q.28 Define Carnot cycle with suitable P-V diagram. Find Network done in cyclic process. Also find the efficiency of heat engine. **5**
- OR**
- What is Doppler effect of sound? Derive the expression for apparent frequency? When –
- (i) Source is movable & listener stationary
- (ii) Source stationary & listener movable
- (iii) Source and listener both movable
- Q.29 (i) Define Magnus effect with suitable example.
- (ii) What is banking of road? Find the expression for maximum velocity of a vehicle when it taking the turn without slipping? **5**
- OR**
- (i) Gives below are some examples of wave motion, state in each case if the wave motion is transverse or longitudinal or both.
- (a) Wave produced by a motor about sailing in water.
- (b) Ultrasonic waves in an produced by a vibrating crystal.
- (ii) What are boats? Two source of sound are producing waves of frequency n_1 & n_2 , where $n_1 - n_2$ is small. Show mathematically that beat frequency is $n_1 - n_2$.

Annual Examination 2013 – 14**Time: 3:00 Hrs.****M. M. 100**

General Instruction :-

Question No. 1 to 12 carry **One Mark** each. Question No. 13 to 18 carry **Three Marks** each. Question No. 19 to 22 carry **Four Marks** each. Question No. 23 to 26 carry **Five Marks** each. Question No. 27 to 30 carry **Six Marks** each.

- | | | |
|------|--|---------|
| Q.1 | Explain core activity of business? | 1 |
| Q.2 | What is business Ethics? | 1 |
| Q.3 | What is qualification shares? | 1 |
| Q.4 | Define “ Factoring ”? | 1 |
| Q.5 | What is “ FCCB ’s”? | 1 |
| Q.6 | Explain cottage Industries? | 1 |
| Q.7 | What is “ Cheap jacks ”? | 1 |
| Q.8 | Give the full name of “ FICCI ”? | 1 |
| Q.9 | Explain “ Tax Holiday ”? | 1 |
| Q.10 | What is plant layout? | 1 |
| Q.11 | Explain cumulative preference shares? | 1 |
| Q.12 | What is the full form of “ TRYSEM ”? | 1 |
| Q.13 | Discuss any three Incentives offered by Government to Industry in backward and tribal areas? | 1+1+1=3 |
| Q.14 | Explain any three services which is provided by the wholesalers to producers? | 3 |
| Q.15 | Explain the reason for international business? | 3 |
| Q.16 | Define departmental undertakings with two features? | 1+1+1=3 |
| Q.17 | Explain credit cooperative society? | 3 |
| Q.18 | What is commercial paper? Give its two merits? | 1+1+1=3 |
| Q.19 | Explain the concept of chaine store with its three limitations? | 1+1+1=3 |
| Q.20 | Explain any two multiple objective of business? | 2+2=4 |
| Q.21 | Explain any two types of General Insurance? | 2+2=4 |
| Q.22 | “Out sourcing involves contrating out” are you agree with this statement, Explain? | 4 |

- Q.23 Explain the various elements of business Ethics? **5**
- Q.24 Explain “capital subscription process” during formation of company? **5**
- Q.25 Explain joint ventures and give its five advantages? **5**
- Q.26 Build up arguments for social responsibilities? **5**
- Q.27 Explain following :- **2+2+2=6**
- (i) GDR (ii) ADR's (iii) Debentures (Any two types)

OR

- Explain the factors affecting the choice of the source of funds? **6**
- Q.28 Discuss the problems faced by small scale industries in India? **6**

OR

- Write a note on the following :- (i) NABARD (ii) RSBDC (iii) NSIC
- Q.29 Explain super market and give its four advantages? **2+1+1+1+1=6**

OR

- Discuss the features of a departmental store. How are they different from multiple shops or chain stores?
- Q.30 What is international business? How is it different from domestic business? **6**

OR

- What is the scope of international business ? **1½ × 4=6**
- ORAL** → **10**

**** ALL THE BEST ****

Annual Examination 2013 – 14**Time: 3:00 Hrs.****M. M. 70****3**

Q.1 Which header file (s) will be required to be included to run following code:-

```

Void main( )
{
    Char msg[ ]="sunset garden";
    For (int i=0;i<=strlen(msg);i++)
        Puts(msg);
        Cout<<"hello msg";
}

```

Q.2 Give differences between:- **(any 4)** **3×4=12**

- (i) compiler v/s Interpreter (ii) cin v/s cout (iii) RAM v/s ROM
 (iv) Local & global variable (v) identifier & keywords

Q.3 Number system conversion:- **3×4=12**

- (i) $(123)_{10} = (?)_2 = (?)_8$
 (ii) $(F4)_{16} = (?)_2 = (?)_{10} = (?)_8$
 (iii) $(10011010)_2 = (?)_{10} = (?)_8$
 (iv) $(34.56)_8 = (?)_2 = (?)_{16}$

Q.4 Construct the logical expression for these -: **2×4=8**

- (i) Temperature is in the range of 15degree Celsius & 25 degree Celsius.
 (ii) Num is even
 (iii) Percentage is greater than or equal to 70 or experience is more than 3 year
 (iv) Product of num1 & num2 is greater than 50

Q.5 Write Programs for followings -: **(Any 5)** **3×5=15**

- (i) WAP that accepts the length, breath, height of a cuboid & display its area &

Volumn . (NOTE:- area= $2*(L*B + B*H + H*L)$)Volume= $L*B*H$)

- (ii) WAP to convert minutes in hours.
 (iii) WAP to find average of 5 numbers.
 (iv) WAP to print the pattern :- *

* *

* * *

- (v) WAP to take a number from user & check wheather it is +ve or -ve.
 (vi) WAP to search an element using linear search.
 (vii) WAP to Sum of digits.

- Q.6 What is the value of ch after the statements are executed? 1

```
int ch=10;
Ch+='a';
```
- Q.7 Evaluate these expressions if a=10;b=20;c=30 . 2
 (a) $a + b \% c - 2$ (b) $++a + b - 4 * c$
- Q.8 define the structure student with these member variables:- 3
- | Name | Address | Phn_no. |
|--------------|---------------|---------|
| | | |
| Fname | colony | |
| Lname | city | |
| | state | |
- Q.9 Give the output for following code:- 3

```
#include<iostream.h>
Void main( )
{
Cout <<"\n Output is:- \n";
For(int i=5,y=1;y<=10;y++)
Cout<<i<<"*"<<y<<"="<<(i*y)<<"\n"; }
```
- Q.10 Find the error in this program? 3

```
#include<iostream.h>
void main( )
{
int a,b;
a=45,b=60
sum=add(a,b);
cout<<"the sum is"<<sum;
}
int add(int x,inty);
{ return a+b; }
```
- Q.11 What is difference between actual & formal parameter ?Explain with any suitable code. 3
- Q.12 Calculate the address of element at the position of 3 of an int array A[18] the base address of array is 900. 3
- Q.13 Write the output of the following:- 2

```
#include<iostream.h>
void X(int a,int & b)
{
a=a+b;
b=a-b;
a=a-b;
}
Void main( )
{
int a=4,b=18;
X(a,b);
Cout<<a<<" "<<b;
}
```

** ALL THE BEST **