

**Annual Examination 2016 – 17****Time: 3:00 Hrs.****M. M. 100**

- Q.1 Write any two difference between tangible assets & Intangible assets. 2
- Q.2 Write any two difference between profit & loss Account and Balance Sheet. 2
- Q.3 Write any two difference between Sales book and Sales account. 2
- Q.4 Write any Three difference between trade discount and cash discount. 3
- Q.5 Give one example for each :  
 (i) Increase in assets and increase in capital.  
 (ii) Decrease in assets and Decrease in liabilities.  
 (iii) Decrease in assets and Increase in Assets
- Q.6 Calculate cost of Goods sold from following information : 3  
 Opening stock ₹ 9000, cash purchase ₹ 80000, Total purchase ₹ 150000, Direct expenses ₹ 21000. Indirect expenses ₹ 40000, closing stock ₹ 15000.
- Q.7 Prepare opening entry from following Balances : 3  
 Stock ₹ 30000, Debtors ₹ 40000, creditors ₹ 24000, prepaid expenses ₹ 5000, Accrued income ₹ 3000, loan from Bank ₹ 25000, Building ₹ 80000 Machinery ₹ 45000, Bills payable account ₹ 18000. Bills receivable account ₹ 7000.
- Q.8 Pass Journal entries for following transaction : 4  
 \* 4-5-16 Goods loss by fire ₹ 15000 and insurance company accepted 80% claim on same day.  
 \* 25-5-16 Cheque received from insurance company and deposited in to the bank same day.
- Q.9 Explain following words : 4  
 (i) Promissory Note (ii) Rebate (iii) Bill dishonored (iv) Bill endorsed
- Q.10 Write any Four difference between SLM & WDV (methods to Depreciation ). 4
- Q.11 Calculate expenses related to stationery for a NPO 4

Particulars	31.12.14 (₹ )	31.12.15 (₹ )
Stock of stationery	6200	5400
Creditors for stationery	12500	16800

Cash paid during the year for stationery ₹ 45000

- Q.12 Prepare creditors account and calculate missing amount from following information's :

Opening Balance of creditors ₹ 25000 , closing Balance of creditors ₹ 38000 total purchase ₹ 300000, cash purchase 25% of credit purchase Bills receivable endorsed ₹ 8000 , Bills payable accepted ₹ 15000, Discount received ₹ 12000, purchase return ₹ 6000 ( ₹ 2000 from cash purchase)

Q.13 Prepare purchase book & purchase return book from following transaction : 4

April 10, 2016      Goods purchased from Makoda Eleronics  
                      50 heater@ 2000 each  
                      80 fans @ 1500 each  
                      T.D. 10% heaters, 5% Fans  
April 22, 2016      Goods return to Nakada electmics  
                      8 heaters & 5 Fans

Q.14 Give rectify entries for following errors : 4

- (i)      Machinery sold ₹ 25000 but recorded in sates account ₹ 20000.
- (ii)     Cash paid to Rohit ₹ 6200 but pasted in Rohit account credit side ₹ 2600.

Q.15 Prepare Machine a/c for three years from following transactions : 6

01.1.12            Purchase I Machine ₹ 50000  
01.7.13            Purchase II Machine ₹ 70000  
30.6.14            Sold I Machine at ₹ 30000  
01.10.14          Purchase III Machine ₹ 40000

Closing Date every year 31<sup>st</sup> Dec. Depr. 10% P.A. as per W.D.V.

Q.16 Sachin sold goods to Keshav ₹ 80000. For this Keshav accepted two bills of exchange of ₹ 50000 & ₹ 30000 for two months and three months respectively. Sachin discounted first bill from bank @ 6% P.A. & second bill retain by him. Both bills honored by Keshav on maturity date. Give Journal entries in the books of Sachin & Keshav for above transactions. 6

Q.17 Prepare Bank reconciliation statement from following information's : 6

- (i)      Pass book shows credit Balance of ₹ 9000.
- (ii)     Cheque deposited in to the bank but not collected by bank ₹ 5000.
- (iii)    Dividend collected by bank but not entered in cash book ₹ 700.
- (iv)    Electricity bill paid by bank as per standing order ₹ 1200.
- (v)     Pass book deposit column undercast by ₹ 1000.

Q.18 Ashok have a small business. He provide some following information : 8

You are required to calculate profit or loss for Ashok for the year ending 31<sup>st</sup> March 2016.

Particulars	31 <sup>st</sup> March 2015	31 <sup>st</sup> March 2016
Debtors	60000	75000
Creditors	35000	24000
Loan from Bank	22000	15000
Stock	24000	32000
Cash in hand	5000	10000
Furniture	20000	25000

Additional Information : (i) Ashok withdrawal ₹ 2000 per month for first six months & ₹ 3000 for last six months. (ii) During the year Ashok introduced ₹ 15000 as a additional capital. (iii) Out standing interest on bank loan for the year ending ₹ 700.

- Q.19** Prepare a receipts & payment account for lions club from following transactions : 8  
 Opening balance of cash ₹ 7200, subscription received for current year ₹ 6500, subscription received for year ₹ 1500, subscription received in advance for next year ₹ 600.  
 Total salary paid in current year ₹ 12000. Outstanding salary of current year ₹ 800. Donation received ₹ 15000. Rent paid ₹ 1800 sports material sold ( Book value ₹ 5000, loss on sale of sports material 10% on book value), sports material purchased during the year ₹ 8000. Out standing amount for sports material ₹ 3000. Amount deposited for FD ₹ 8000. Expenses for postage ₹ 1000 charity given ₹ 3500. Stationery purchased ₹ 1200.
- Q.20** Prepare financial statement from following Trial Balance & additional information : 10

**Trial Balance for the year ending 31<sup>st</sup> March 2007**

<b>Debit balance</b>	<b>Amount (₹ )</b>	<b>Credit balances</b>	<b>Amount (₹ )</b>
Opening stock	2,25,000	Creditors	1,68,000
Debtors	1,80,000	Bank overdrafts	12,000
Investments	90,000	Sales	3,00,000
Cash in hand	12,000	Return outwards	14,400
Plant & Machinery	48,000	Capital	3,60,000
(Purchase on 1.7.06)		10% Loan from Bank	60,000
Purchases	2,40,000	(on 1-7-06)	
Return in words	24,000	Interest on Investment	3600
Bad debts	18,000		
Selling & Dist. Exps.	5,400		
Audit fees	7,800		
Office expenses	31,200		
Discount allowed	600		
Advertisement	1,200		
Drawings	30,000		
Carriage inwards	2,400		
Interest on loan	2,400		
	<u>9,18,000</u>		<u>9,18,000</u>

**Adjustments :**

- (i) Stock at the end was ₹ 2,40,000.
- (ii) Further Bad debts ₹ 5000 & PBD maintain 10% on Debtors.
- (iii) Audit fees outstanding ₹ 18000.
- (iv) Provide Depreciation on plant & Machinery @ 10% per annum.
- (v) Goods ₹ 3000 used by proprietor for personal use but not recorded in books.

**ORAL**

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## **Annual Examination 2016 – 17**

Time: 3:00 Hrs.

M. M. 100

## **General Instructions:-**

SECTION -A READING	20
SECTION -B WRITING & GRAMMAR	30
SECTION -C LITERATURE & LONG READING	30
SECTION -D LISTENING SKILLS & SPEAKING SKILLS	20

## **SECTION -A (READING)**

- Q1.** Read the passage given below and answer the following questions:

Many of those who wish to succeed reaches stunning heights, but much more cannot come to their dreams any closer. The difference is that some people follow the laws of **success**, while the others do not. They just let down and do not believe in their own capabilities. While anybody knows that luck only smiles to the people who are expanding their boundaries, act with intention to achieve their goals. Everyone has all the capabilities to move forward, just not everyone sees it. And your task is to find your own path that will lead you to the life that you want.

To succeed, the first thing you need is to be in good health and a full capacity to work. If your body and spirit is in harmony and perfect condition, you will be able to go to your dreams of having fun; you will have enough stamina for action in this world. After all, you cannot reach success doing nothing. You need to do step by step to what is necessary to achieve the objectives.

And so that this way was easier, you need to combine physical and mental work. You should get rid of the internal limitations and negative thought, manage the power of thought and use a visualization technique to create the model of your success, beginning in the higher plane, and then in physical reality. Many successful people say that a visualization board helped them to succeed in life. They looked at the scheme of their daily goals in the form of images and sensations caused a feeling of having the desired.

Naturally, they believe in themselves and in the possibility getting what they wanted. Faith, knowing that you will succeed is one of the most important factors in the science of success. Success is achieved when a person expands the comfort zone, doing what he or she previously did, overcomes its fears and wins. When a person uses its strengths, really doing its job, it helps to develop the person's creativity and other remarkable abilities.

Such a person celebrates its victories and uses its failure as opportunities and lessons to be learnt in order to become stronger.

The main thing is to find your calling.

To reach success you need to find your calling. Something you'd really like to do. When work is a pleasure, your soul is rejoiced, so your ability is manifested in all its glory. This is very important if you are targeting not only money, but also a positive, happy life. Especially because to succeed in something that is not yours is possible, but is usually achieved with difficulty, overcoming many obstacles, and even there is succeeds, it will not make you truly happy. True dreams are realized easily as if the Universe itself helps a person to achieve amazing results.

- #### A.1.1 Choose the correct options:

$$1 \times 6 = 6$$

- (a) What is one of the most important factors in the science of success?

- (i) Faith                  (ii) Abilities                  (iii) glory                  (iv) strength

- (b) What you have to do to reach success:

- (i) to be creative
  - (ii) need to find your calling
  - (iii) looking at daily goals
  - (iv) to seek harmony

- (c) What will lead you to the life that you want ;

  - (i) to believe in yourself
  - (ii) to enhance your ability
  - (iii) to find your own path
  - (iv) to be more energetic

(d) Everyone has all the capabilities to:

  - (i) move forward
  - (ii) be kind
  - (iii) be separated from others
  - (iv) look for betterment

(e) To succeed, the first thing you need is to be.:

  - (i) well educated by parents
  - (ii) in good health and a full capacity to work
  - (iii) curious about everything
  - (iv) none of these

(f) In para 5, a word that means the same as hindrance:

  - (i) pleasure
  - (ii) positive
  - (iii) obstacle
  - (iv) amazing.

#### A.1.2 Answer the following questions:

$$1 \times 6 = 6$$

- (a) What happens when work is a pleasure?
  - (b) What will you do to create the model of your success?
  - (c) What will happen If your body and spirit is in harmony and perfect condition?
  - (d) What many successful people say to succeed in life?
  - (e) When success is achieved?
  - (f) What helps a person to achieve amazing results?

**Q.2** Read the passage given below and answer the following questions:

The purchase behaviors of consumers towards different types of products are highly dependent on a myriad of factors which every company must take into consideration. Arguably, consumers have different tastes and preferences for different products depending on different products attributes such as taste, size, packaging, the expiry date, price and mostly the ingredients used to make the product. As defined above, consumer behavior is the kind of behavior displayed by consumers in the process of making purchase decisions towards products they think will suit their wants and needs. It is imperative to note that consumers are limited by the available time, effort and money when making purchase decisions which means that consumers seek for the best overall products that meet their wants and needs using the minimum effort, less money and time.

Marketers must be well aware of behaviors displayed by consumers towards different products particularly in highly competitive industries where products are almost similar in many attributes. Marketers must take into consideration the type of consumers they are dealing with including organizational and personal consumers. In the current case, personal consumers are the main target of the marketers because products such as Coca Cola, Pepsi Cola and RC Cola are mostly consumed by individual or personal consumers who buy goods or products for their own and their family use.

The marketing implications of the above blind tests conducted on the three brands namely Coca Cola, Pepsi Cola and RC cola can either be negative or positive implications. For example, Pepsi Cola being the most liked and the most identifiable brand among the three will require minimum marketing efforts because the consumers will display a routinized response behavior which means that consumers have already well established beliefs and knowledge towards Pepsi Cola as the sweetest brand. Hence, marketing this product will require minimum effort, time and resources in the marketplace because the consumers have a liking for the product.

However, it should be noted that this marketing implication is only positive in certain market segments and with specific personal consumers. In other market segments such as among the diabetic, overweight and obese personal consumers, the marketing implication of the above test would be negative meaning that the company would need to utilize numerous efforts, time and money to market the Pepsi Cola product to these segments of the market because the sweetness of Pepsi Cola is a detriment in these market segments. The other marketing implication for the consumer behavior tests conducted above is that advertisements costs for the Pepsi product would reduce significantly because consumers would have a way of differentiating the Pepsi

product in the marketplace just by testing the products. Arguably, the objective of marketing campaigns such as advertisements is to enable the consumers to differentiate between a company's products from the competitors' products. In this regard, the unique test of Pepsi Cola will be one of the differentiation techniques in the market which means that advertisements related to the brand would also reduce as consumers develop their own attachments to the Pepsi Cola.

- A.2.1 On the basis of your reading of the above passage make notes on it using heading and sub-heading. Use recognizable abbreviations, wherever necessary. 5

- A.2.2 Write a summary of the above passage based on your notes. 3

### **SECTION –B (WRITING & GRAMMAR)**

- Q.3** You are Amit/Anita, the Head Boy/Head Girl of your school. You have invited Miss Renu Nigam , an eminent counsellor to talk on various career options available to the students of humanities stream. Giving all necessary details , draft a **notice** to be displayed on your school notice board.

**OR**

Design a **poster** for school library on the value of books and good reading habits. You may use slogans. 4

- Q.4** You are A run/Anita Basu living at 1765,sector 20, Chandigarh . You come across the following advertisements .

(Postal classes -Diploma in Waste Water Management – duration one year - practical arranged - minimum qualification SSCE first division -prospectus free – Contact ..Director, Eco-centre, P.B.1037, Bengaluru-560019.) Write a **letter to the Director** asking for detailed information on the course, fee structure, assignments, personal contact programmes and job opportunities.

Request for a prospectus and enclose a self-addressed envelope. 6

**OR**

You are Anjali/Ajay of House No 101,sector 22,Chandigarh . You are greatly disturbed by the increase in traffic, pollution and uncleanliness in your "City Beautiful". Write a **letter to the Editor** of The Tribune, Chandigarh, throwing light on these aspects, so as to make the citizens aware of these growing drawbacks in their city and seeking their cooperation .

- Q.5** You are Bhumika Agarwal , the Head girl of your school .Delhi Administration has launched a campaign against use of polythene bags . Write an **article** on "Hazards of Polythene Bags" for your school magazine. 10

**OR**

A visit to the railway station may be a rewarding well as entertaining experience . Recount your experience of visiting the railway station recently to receive your friend. Write a **Report**. 10

- Q.6** There is an **error** in each of the following lines. Find the error. **Write the incorrect word and the correction in your answer sheet.** 8x ½=4

A theft were committed in the house of Mr. Arora

(a) \_\_\_\_\_

last night . It is believe that the

(b) \_\_\_\_\_

robbery was plan very carefully . On returning

(c) \_\_\_\_\_

from his post dinner walk Mr.Arora notice

(d) \_\_\_\_\_

that a drawer of his table had be forced

(e) \_\_\_\_\_

open and some money take. Two of Mrs. Arora's

(f) \_\_\_\_\_

rings which were keeping in the drawer,

(g) \_\_\_\_\_

were also stole.

(h) \_\_\_\_\_

- Q.7** Rearrange the following jumbled words in meaningful sentences. 2

a) why/you/don't /bothering /instead of/me/and/play/go/?

b) this school/ he /three years/ in/ for /before/ worked /he /left /had

**Q.8 Read the dialogues and complete the passage that follow .**

**4**

**Diksha:** Anita's mother is seriously ill and is in the hospital.

**Dolly:** What has happened to her?

**Diksha:** She complained of chest pain yesterday.

**Dolly:** I will go to see her tomorrow .

Diksha told Dolly that (a)\_\_\_\_\_ and was in the hospital. Dolly asked (b)\_\_\_\_\_. Diksha told her that (c)\_\_\_\_\_. Dolly felt much concerned and said (d)\_\_\_\_\_.

**SECTION –C (LITERATURE & LONG READING)**

**Q.9. Read the extract given below and answer the questions that follow:**

When did my childhood go?

Was it the time I realized that adults were not  
all they seemed to be:

(a)According to the poet, the adults were\_\_\_\_\_

**1**

(b)Who is the poet of the poem?

**1**

(c)What is the theme of this poetry?

**1**

**Q.10 Answer any three of the following questions :**

**3x3=9**

(a) What answer did the rain give to the poet about its origin?

(b) Why did the narrator wait a long time before going to the address no 46, Marconi street?

(c) What " customs" of the citizens is referred to in the tale? How did the ministers decide to observe it?

(d) What was Andrew's view of marriages ?Why was he resentful and confused?

(e) How did Albert leave his school where he had spent five years?

**Q.11 Answer the following :**

**6**

What difference did you notice between the reaction of the adults and children when faced with danger? Discuss.

**OR**

What do you think makes 'The Tale of Melon City' interesting and edifying?

**Q.12 Sketch the appearance of the horrible spectre as seen by the Canterville ghost.**

**6**

**OR**

Why did Mrs.Otis offer doctor Dobell's tincture to the ghost? How did the ghost respond to her?

**Q.13 Describe the appearance of the Canterville ghost as the Headless Earl.**

**6**

**OR**

Why did Virginia show pity on the Canterville ghost, when she saw him in the Tapestry Chamber?

**SECTION –D (LISTENING SKILLS & SPEAKING SKILLS)**

**20**

**\*\* ALL THE BEST \*\***

**Annual Examination 2016 – 17****Time: 3:00 Hrs.****M. M. 70**

- Q.1 What do you mean by logic gates? Why NOR and NAND gates are called universal gates? Explain NAND and NOR gates with logic symbol and truth table. 1+1+2=4
- Q.2 Draw K- Map for the following?  $F(x,y,z,w)=\pi(0,1,3,7,8,11,12,13,14)$ . Obtain SOP and draw the circuit diagram for the simplified equation. 2+1=3
- Q.3 Prove algebraically : - 2+2=4

$$(i) (x+y+z)(xyz)'=xy'+yz'+zx' \quad (ii) xy+x'z+yz=xy+x'z$$

- Q.4 Based of the following c++ code ,find out the expected correct output(s) from the options(i)to (iv).also,find out the minimum and maximum value that can be assigned to the variable Trick used in the code at the time when value of count is3

```
void main()
{char status[][10]={"EXCEL","GOOD","OK"};
randomize();
int Turn=10,Trick;
for(int count=1;count<4;count++)
{Trick=random(count);
cout<<Turn-Trick<<status[Trick]<<"#";
}
(i) 10EXCEL#10EXCEL#8OK#
(ii) 10EXCEL#8OK9GOOD#
(iii) 10EXCEL#9GOOD#10EXCEL#
(iv) 10EXCEL#10GOOD#8OK#
```

3

- Q.5 Find the output of the following program:-

```
#include<iostream.h>
#include<ctype.h>
void changeit(char Text[],char c)
{for(int k=0;Text[k]!='\0';k++)
{if(Text[k]>='F'&&Text[k]<='L')
Text[k]=tolower(Text[k]);
else
if(Text[k]==='E' ||Text[k]==='e')
Text[k]=c;
else
if(k%2==0)
Text[k]=toupper(Text[k]);
else
Text[k]=Text[k-1];
}
}void main()
{char Oldtext[]="pOWERALone";
changeit(Oldtext,'%');
cout<<"New Text:"<<Oldtext;<<endl;
}
```

3

Q.6 What is the difference between degree and cardinality of a table? What is the degree and cardinality of the following table? 3

Eno	Name	Salary
101	John Fedrick	45000
103	Raya Mazumdar	50600

**Q.7 Explain:- (with example)**



**Q.8 (A)** Write SQL commands for the following :

- (i) To create a table employee with three attributes.
  - (ii) To add a new column in the table.
  - (iii) To insert a record in table.

**Q.9** Write the program for the followings:-

- (i) WAP to calculate average of three nos, and if average is more than 15, print “GOOD” otherwise display “BAD” on the screen. 2

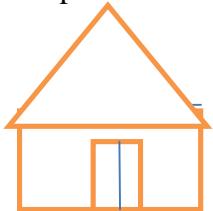
(ii) WAP function AssignFare() which calculates and display value of the variable total \_Fare as follows:-

Fare	For kilometers
500	$\geq 1000$
300	$< 1000 \text{ & } \geq 500$

(iii) WAP to print the following pattern on the screen:-

(a) \*\*\*\*  
\*\*\*  
\*\*  
\*

(b) WAP to print the following pattern on the screen:-



(iv) WAP to copy all vowels from one string to another .

Example:- a[]="I live in bhilwara"

Then new string should be like-“iieiaa”

(vi) WAP to print all even numbers from an array.

(vi) WAP Function to add two 1d array

(vii) WAP of KBC with 5 questions. With proper format

Q.10 Explain:- (i)strcat() (ii) Strlen() (iii)strcmp() (iv)getch()

**Q.11** What do you mean by operating system? Explain it. 3

Q.12 Give difference between compiler v/s interpreter

Q.13 WAP to display records of five employees (use str

**\*\* ALL THE BES**

\*\*\* ALL THE BEST \*\*\*

**OTBA**

- Q.25 Give the procedure for transplantation of organs by flowchart? 5
- Q.26 Being rich does not necessarily mean living a healthy life. Justify the statement. 5

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Roll No \_\_\_\_\_

**Code. No. 11/Biology/NLCS/14****Annual Examination 2016 – 17****Time: 3:00 Hrs.****M. M. 70****General Instructions:**

- (i) All questions are compulsory.
- (ii) The question paper consists of Five sections A, B, C, D and E.
  - Section–A** Question No. 1 to 5 **One Mark** each.
  - Section –B** Question No. 6 to 10 **Two Marks** each.
  - Section – C** Question No. 11 to 22 **Three Marks** each.
  - Section – D** Question No. 23 has 1value base question of **Four Marks**.
  - Section –E** Question No. 24 to 26 **Five Marks** each.
- (iii) Where necessary, the diagrams drawn should be neat and properly labeled.

**Section - A**

- Q.1 Define hormone.
- Q.2 Why is caecum large sized in certain herbivores?
- Q.3 Write any one difference between chlorophyll ‘a’ & chlorophyll ‘b’?
- Q.4 Give an alternate name for meiosis.
- Q.5 Why intestinal mucosa has microvilli?

**Section – B**

- Q.6 What is the role of  $K^+$  ion in the opening of stomata?
- Q.7 Differentiate between Apocarpous and syncarpous ovary.
- Q.8 How is foetus with  $Rh^+$  blood gets affected, if his/her mother is  $Rh^-$ ?
- Q.9 Mention any two metabolic disorders which can be diagnosed only after analysis of urine.
- Q.10 Define synapsis. List the phase of its occurrence.

### **Section – C**

- Q.11 Differentiate between Glycolysis & Kreb's cycle.
- Q.12 Diagrammatically explain the concept of activation energy.
- Q.13 Why are Deuteromycetes called 'imperfect fungi'? Comment about their reproduction & mycelium type. Also give two examples of Deuteromycetes.
- Q.14 Explain the structure of human eye by the help of a diagram.
- Q.15 What is thyroid gland? Give its important function.
- Q.16 (i) What are symport, antiport and uniport. Also, show them by a diagram.  
(ii) Any three functions of diffusion.
- Q.17 Describe respiratory pathway is an amphibolic pathway.
- Q.18 What are pneumatophores? Also give an example.
- Q.19 What are the advantages of anaerobic respiration in living beings?
- Q.20 Mention the importance of K & Mg in plants?
- Q.21 Give differences between :  
(i) Cilia & flagella      (ii) 80s & 70s ribosomes
- Q.22 What are botanical gardens? Write their importance in context to study of classification? Also write the names of any two botanical gardens in the world.

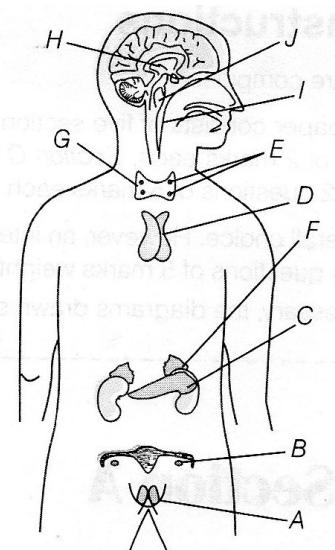
### **Section D**

- Q.23 During a lecture, a Biology teacher makes the statement that, "Brain is the master of all nerve action". After nerve action and asked the teacher to elaborate the statement. Teacher smiled & explained him.  
(i) What is brain?

- (ii) Name the parts of brain.  
(iii) Also mention its functions.  
(iv) What are the values shown by Vijay?

### **Section E**

- Q.24 Study the given figure carefully & answer the following questions given below :



- (i) Label the various endocrine glands as A to J.  
(ii) Give hormonal secretions of each of these glands.

**OR**

What is oxygen dissociation curve? List the various factors which result in causing this curve?

- Q.25 (a) Explain the following  
(i) crystallization (ii) distillation (iii) Chromatography  
(b) Explain Isomerism & its types

OR

- (i) Define heterolytic & homolytic cleavage. Give one example.  
(ii) Explain Inductive effect, Resonance effect & electromeric effect.

- Q.26 (i) Define inert pair effect.  
(ii) Why the 1<sup>st</sup> member of p-block differ from other members.  
(iii) Write note on Borax & orthoboric acid

OR

- (a) Give reasons :  
(i) Conc. HNO<sub>3</sub> can be transported in aluminium container.  
(ii) Ca is heated with ZnO .  
(iii) SiO<sub>2</sub> is heated with hydrogen Fluoride.  
(b) What do you understand by (i) Allotropy (ii) Catenation.

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Roll No. \_\_\_\_\_

Code. No. 11/Chemistry/NLCS/33

## Annual Examination 2016 – 17

Time: 3:00 Hrs.

M. M. 70

### General Instructions:-

- Q. No. 1 to 5 (1 Mark each), Q. No. 6 to 10 (2 Marks each),  
Q. No. 11 to 22 (3 Marks each), Q. No. 23 Value Based (4 Marks)  
Q. No. 24 to 26 (5 Marks each)

**Attempt all questions**

- Q.1 Define ( $n + \ell$ ) rule.  
Q.2 Consider N<sup>3-</sup>, O<sub>2</sub><sup>-</sup>, F<sup>-</sup>, Na<sup>+</sup>, Mg<sup>2+</sup>. What is common in them?  
Q.3 Define standard enthalpy of combustion.  
Q.4 Name the factors which affect the strength of acid.  
Q.5 Define acid rain.  
Q.6 How many seconds are there in 2 days?  
Q.7 Calculate the wavelength, frequency and wave number of a light wave whose period is  $2.0 \times 10^{-10}$  s.  
Q.8 Define octet rule. Write its limitation.  
Q.9 At 0°C, the density of a certain oxide of a gas at 2 bar is same as that of dinitrogen at 5 bar. What is the molecular mass of the oxide?  
Q.10 State why :  
(i) a solution of Na<sub>2</sub> CO<sub>3</sub> is alkaline.  
(ii) Alkali metals are prepared by electrolyses of their fused Chlorides?

- Q.11 An organic substance containing Carbon, Hydrogen and Oxygen gave the % composition as C=40.687%, H=5.085%. Calculate the empirical formula.
- Q.12 Explain how atomic radius, Ionisation enthalpy, electronegativity change in periodic table.
- Q.13 Explain hybridisation & its types.
- Q.14 Explain various types of intermolecular Forces.
- Q.15  $N_2(g) + 3H_2(g) \rightarrow 2NH_3(g); \Delta_r H^\ominus = -92.4 \text{ KJ/mol}$ . What is the standard enthalpy of formation of NH<sub>3</sub> gas?
- Q.16 Explain various types of classification of acid & base.
- Q.17 A mixture of 1.57 mol of N<sub>2</sub>, 1.92 mol of H<sub>2</sub> and 8.13 mol of NH<sub>3</sub> is introduced into a 20 L reaction vessel at 500k. At the temperature, the equilibrium constant, Kc of the reaction N<sub>2</sub>(g)+3H<sub>2</sub>(g) =2NH<sub>3</sub>(g) is  $1.7 \times 10^2$ . Is the reaction mixture at equilibrium? If not, What is the direction of the net reaction?
- Q.18 Permanganate (VII) ion, MnO<sub>4</sub><sup>-</sup> is basic solution oxidizes iodide ion, I<sup>-</sup> to produce molecular iodine (I<sub>2</sub>) and Manganese (iv) oxide (MnO<sub>2</sub>). Write a balanced ionic equation to represent this redox reaction.
- Q.19 (i) What causes the temporary & permanent hardness of water?  
(ii) Write the names of isotopes of hydrogen.
- Q.20 (i) Explain the various gaseous air pollutant.  
(ii) Explain green chemistry in day-to-day life.

- Q.21 Compare alkali metals & alkaline earth metals with respect to (i) ionization enthalpy (ii) basicity of oxides (iii) solubility of hydroxides.
- Q.22 Discuss the shape using VSEPR Model. BF<sub>3</sub>, H<sub>2</sub>O, Xef<sub>4</sub>
- Q.23 According to 1<sup>st</sup> law of thermodynamics, energy can neither be created nor be destroyed but can be converted from one form to another. Ramesh tried to apply this law on the appliances working around us like and electrical fan or a heater, hydroelectric power plant etc.
- (i) Can you apply the 1<sup>st</sup> law of thermodynamic on electric fan. If yes how?
- (ii) How does 1<sup>st</sup> law of thermodynamic apply to a hydroelectric power plant?
- (iii) When a stone falls from a height, it hits the object or breaks our head. How does 1<sup>st</sup> law of thermodynamics apply here?
- (iv) What values are associated with Ramesh?
- Q.24 Write reaction :  
(i) Wurtz reation (ii) dehydrogenation (iii) decarboxylation  
(iv) Friedel-craft alkylation (v) Nitration
- OR
- How can we prepare :
- (i) Alkene from alcohol (ii) Alkene form haloalkane  
(ii) Alkane from alkyne  
(iv) Hexachlonebenzene form benzene  
(v) Acetophenone from Benzene

Q.26 (i) What is Carnot cycle? Find the work done in complete cycle & also find the efficiency of Carnot heat engine.

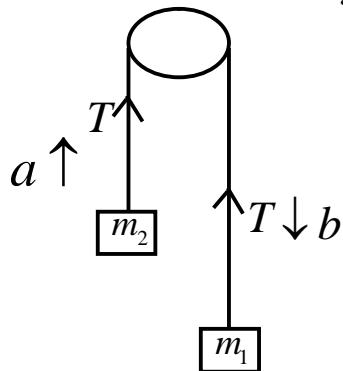
(ii) State & prove parallel axis theorem.

OR

(i) State 2<sup>nd</sup> law of thermodynamics.

(ii) State and prove Bernolilis theorem for ideal flow of liquid.

(iii) Find tension & acceleration in string.



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Roll No. \_\_\_\_\_

Code. No. 11/Physics/NLCS/33

## Annual Examination 2016 – 17

Time: 3:00 Hrs.

M. M. 70

### General Instructions :-

Question No. 1 to 5 carry One Mark only.

Question No. 6 to 10 carry Two Marks.

Question No. 11 to 22 carry Three Marks.

Question No. 23 carry Four Marks.

Question No. 24 to 26 carry Five Marks.

Q.1 What will be the velocity of sound in perfectly rigid rod. Give reason.

Q.2 What is the value of bulk modulus for an incompressible liquid?

Q.3 State Boyle's law for ideal gas.

Q.4 Where does a body weight more? At the sea level or on the mountains.

Q.5 What physical quantity does the area under the force displacement curve represent?

### Question No. 6 to 10 carry Two Marks only.

Q.6 Why hot soup tastes better than cold soup?

Q.7 The frequency of vibration of a stretched string depends upon –

(i) its length  $\ell_1$  (ii) its mass per unit length "m" and (iii) the tension T in the string obtain dimensionally an expression for frequency  $v$ .

Q.8 A projectile is fired vertically with a velocity  $u$ . Show that its trajectory is a parabola. Also obtain expression for height of projectile.

Q.9 A steam engine delivers  $5.4 \times 10^8$  J work per minute and services  $3.6 \times 10^9$  J of heat per minute from its boiler. What is the efficiency of engine? How much heat is wasted per minute?

Q.10 Water rises in a capillary tube, whereas mercury falls in a capillary tube? Explain.

**Question No. 11 to 22 carry Three Marks only.**

Q.11 Find the relation between  $C_p$  &  $C_v$ .

Q.12 Show that in case of close organ pipes only odd harmonic formed.

Q.13 State and prove Newton's law of cooling and prove it?

Q.14 Why is invar used for making pendulum of clocks?

Q.15 Derive an expression for moment of inertia of a uniform sphere about its axis of rotation.

Q.16 (i) Prove that total energy of particle in S.H.M. is constant?  
(ii) Show graphically variation of kinetic energy and potential energy with time of a particle in S.H.M.

Q.17 Find specific heat capacity of solid.

Q.18 A body weight 63 N on the surface of the earth. What is the gravitational force on it due to the earth at a height equal to half the radius of the earth?

Q.19 State Newton's formula for sound waves in air point out the error and discuss Laplace's correction?

Q.20 State 3<sup>rd</sup> law of motion and explain it with a suitable example.

Q.21 Why pendulum is called simple pendulum. Derive an expression for its time period. Does it depend on the mass of bob?

Q.22 Explain all three modes of heat transfer and write example for each?

**Question No. 23 is value base contain Four Mark**

Q.23 Bunty was fond of painting. He observed that the hairs of paint brush do not cling together when dry and even when dipped in water but form a fine tip when taken out of it. He was quite surprised to see it but found it very useful for doing neat and beautiful painting. He asked his elder brother Shunty. Wh was a Science student of class XI, why do hairs of a paint brush cling together when taken out of water. His elder brother explained him the reason nicely.

- (i) What are the values displayed by Bunty here?
- (ii) Why do the hairs of a paint brush cling together when taken out of water?

**Question No. 24 to 26 carry Five Marks only.**

Q.24 (i) What are beats? How are they produced? Show that beats frequency for maximum and minimum amplitude is  $n_1 - n_2$ ?  
(ii) Prove that in case of elastic collision between two bodies of same mass after collision they interchange their velocities?

OR

What is Doppler effect of sound? Derive the expression for apparent frequency. When –

- (i) Source is movable and listener stationary.
- (ii) Source stationary and listener movable.
- (iii) Source and listener both movable.

Q.25 State the law of equipartition of energy, using this law to determine the value of  $C_p$ ,  $C_v$  and  $\gamma$  for (i) monoatomic (ii) Diatomic (iii) Triatomic and polyatomic gases

OR

Define satellite. Find orbital velocity, height of satellite, total energy of satellite, binding energy of satellite, and escape velocity of satellite.

- Q.23 Two dice are thrown together. What is the probability that the sum of the numbers on the two faces is divisible by 3 or 4?

OR

A and B are event such that  $P(A)=0.42$ ,  $P(B)=0.48$ ,  $P(A \text{ and } B) = 0.16$ . Then find

- (i)  $P(\text{not } A)$     (ii)  $P(\text{not } B)$     (iii)  $P(A \text{ or } B)$     (iv)  $P(A - B)$ .

#### Section – D

- Q.24 Find three numbers in GP, whose sum is 52 and sum of whose product in pairs (pairs of two ) is 624.

OR

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

- Q.25 Find the image of the point  $(3, 8)$  with respect to live  $x + 3y = 7$ , assuming the line to be a plane mirror.

- Q.26 Find the equation of the circle passing through the centre of the circle  $x^2 + y^2 + 8x + 10y - 7 = 0$  and is concentric with the circle  $2x^2 + 2y^2 - 8x - 12y = 9$ .

- Q.27 (i) Find the derivative of  $y = \cos ec x$ , using first principle.

(ii) If  $y = \frac{x \sin x + \cos x}{x \cos x - \sin x}$  then find  $\frac{dy}{dx}$ .

- Q.28 The mean and variance of eight observations are 9 and 9.25 respectively. If six of the observations are 6,7,10,12,12, and 13 then fine the remaining two observations.

- Q.29 An urn contains 6 red, 4 white and 8 blue balls. If three balls are drawn at random, then find the probability that –

- (i) One ball is red and two balls are white.  
 (ii) Two balls are blue and one ball is red.  
 (iii) None is red.

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Roll No. \_\_\_\_\_ Code. No. 11/Mathematics/NLCS/32

## Annual Examination 2016 – 17

Time: 3:00 Hrs.

M. M. 100

General Instruction :-

The Question paper is divided into 4 Section A,B,C and D.

Section – A Question No. 1 to 4 carry **One Mark** each.

Section – B Question No. 5 to 12 carry **Two Marks** each.

Section – C Question No. 13 to 23 carry **Four Marks** each.

Section – D Question No. 24 to 29 carry **Six Marks** each.

#### Section – A

[These Questions , Ques. 1 to Ques. 4 are to be done in very short]

- Q.1 If set  $A = \{1, 4, 9, 16, 25\}$ , write this set in set builder form.

- Q.2 Write the domain of function  $f(x) = \frac{x+2}{x^2 - 5x + 6}$ .

- Q.3 Write the general solution of  $\cos es\theta = \frac{2}{\sqrt{3}}$ .

- Q.4 Find the perpendicular distance of line  $3x - 4y + 7 = 0$  from the point  $(-2, 3)$ .

#### Section – B

- Q.5 If  $n(A) = 45, n(B) = 35, n(B - A) = 25$  then find  $n(A \cup B)$ .

- Q.6 If  $A + B = \frac{\pi}{4}$ , prove that  $(1 + \tan A)(1 + \tan B) = 2$ .

- Q.7 Solve the inequality  $\frac{3x-5}{7} - \frac{4x+3}{2} \geq 10; (x \in R)$ .

- Q.8 In how many ways can we select a team of 6 players out of 12 men and 8 women players, if men players should be in majority and at least one women must be taken.

- Q.9 In an AP,  $3+7+11+15+\dots+x=528$ . Find value of  $x$ .
- Q.10 Find the ratio in which  $P(-3, y, z)$  divides the line segment joining  $A(-8, 5, 7)$  and  $B(5, -1, 12)$ . Also find the value of  $y$  and  $z$ .
- Q.11 Write the negation of given statements.
- All similar triangles are congruent.
  - Area of a circle is same as the perimeter of the circle.
- Q.12 If  $A = \{2, 3, 5\}$  and  $B = \{7, 8, 6\}$  and  $C = \{2, \sqrt{3}, 8, 6, 9\}$  then write  $A \times (B \cap C)$  and  $B \times (A \cap C)$ .

### Section – C

- Q.13 Prove by using P.M.I. that  $x^{2n} - y^{2n}$  is divisible by  $x + y$ , for all  $n \in \mathbb{N}$ .
- Q.14 Convert the complex No.  $Z = \frac{1+3i}{1-2i}$  into polar form.
- Q.15 How many different words can be formed with the letters of the word HARYANA? How many of these –
- have H and N together?
  - begin with H and end with N?
  - have three vowels together?
- Q.16 If the coefficient of second, third and fourth terms in the expansion of  $(1+x)^{2n}$  are in AP, then show that  $2n^2 - 9n + 7 = 0$ .

### **OR**

Find the term independent of  $x$  in the expansion of  $\left(\frac{3x^2}{2} - \frac{1}{3x}\right)^9$ .

- Q.17 In  $\Delta ABC$ , co-ordinates of  $A(-3, 2)$ ,  $B(5, 7)$  and  $C(11, -1)$  are given. Find the equation of altitude drawn from vertex B on side AC.

### **OR**

Find the equation of straight line passing through point (2, 3) and making an angle of  $60^\circ$  with the positive direction of y-axis.

- Q.18 Draw the shape of the conic given by equation  $4x^2 + 9y^2 = 36$  and find its eccentricity, length of latus rectum, foci and equations of directrix.
- Q.19 If the origin is the centroid of the  $\Delta PQR$  with vertices  $P(2a, 2, 6)$ ,  $Q(-4, 3b, -10)$  and  $R(8, 14, 2c)$  then find the value of  $a, b$  and  $c$ .

- Q.20 Evaluate the limit :  $\lim_{x \rightarrow 0} \left( \frac{\tan 2x - \sin 2x}{x^3} \right)$ .

### **OR**

Evaluate the limit :  $\lim_{x \rightarrow \frac{\pi}{3}} \left( \frac{\sqrt{3} \cos x - \sin x}{3x - \pi} \right)$ .

- Q.21 State the converse and contra positive of each of the following statements :
- $p$  : I go to beach whenever it is a sunny day.
  - $q$  : If it is hot outside, then you feel thirsty.
- Q.22 Calculate the mean, variance and standard deviation for the following distribution [ use short-cut method]

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

Q.29 Rohan a fresh graduate decided to establish a small factory in his village. He spoke to his father who guided him about the various schemes under MSMED Act. Rohan entered into an agreement with one of the big automobile manufacturing company for them .He employed both men and women in his factory. Soon after the production started Rohan realized that he could produce more than the demand of the automobile company so he decided to sell 20% of its components to small dealers in the nearby town. Rohan ensured that the machines did not create any kind of pollution. He also organized a night school for all the illiterate workers.

- (i) Identify the type of factory Rohan established. Quote supporting lines for your answer.
- (ii) State any three incentives provided to rural Industries under MSMED Act 2006.
- (iii) State the type of social responsibilities Rohan performs.

1+2+3

Q.30 “Best Book pub. Ltd. is a leading publishing house. They print and sell books across the country. Ragini joined as a marketing manager. During a sales meeting she suggested to sell books online. Everyone in the meeting looked surprised because from last many years they have been selling books by visiting schools, books sellers etc. The sales director asked Ragini to prepare a detailed report on “Online selling” concept. Soon books were available online. Within three months and publisher received a big order from Canada. This would be their first export so the sales manager is now trying to understand the export procedure.

- (i) State and explain concept of selling online.
- (ii) Discuss the payment mechanism for online business.
- (iii) Explain in brief the procedure to export books to Canada.

**ORAL + PROJECT**

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**10**

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**Roll No. \_\_\_\_\_ Code. No. 11/Business Studies/NLCS/71**

## **Annual Examination 2016 – 17**

**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.

Question No. 1 to 12 carry **One Mark** each.

- Q.1 Explain the term “BPO”?
- Q.2 What you mean by “Business Ethics”? Give an example.
- Q.4 Give two examples of legal responsibility of business.
- Q.5 Give statement about “DIC”.
- Q.6 Give an example to distinguish visible and invisible trade.
- Q.7 Name and explain the document issued by buyer at the time of return of goods.
- Q.8 Explain “Trysem”.
- Q.9 Name the type of Investors to whom equity shares appeal.
- Q.10 What do you mean by “VPN”?
- Q.11 Mention any two types of telecom services available to business world.
- Q.12 In which year did government introduce disinvestment? Explain.

**Question No. 13 to 18 carry Three Marks each.**

- Q.13 Business supplies goods and services to meet material needs of humans for financial gain. Discuss.

- Q.14 Rohit and Mohit are partners dealing in shares. Mohit uses firms money to buy shares on his name. He did not disclose this information with Rohit.  
 (i) Does Rohit has any share in the profit?  
 (ii) Which values ingnore by Mohit?
- Q.15 How does the government maintain a regional balance in the country?
- Q.16 Aman mortgaged his factory against a bank loan can bank insure the factory against fire.
- Q.17 What is outsourcing? Name two basic features of outsourcing.
- Q.18 Explain the following :  
 (i) Publication of code  
 (ii) compliance mechanism.

1½+1½

**Question No. 19 to 22 carry Four Marks each.**

- Q.19 Build up arguments for and against social responsibilities. 2+2
- Q.20 Discuss the various factors which affect the choice of source of commerce.
- Q.21 Surya bakery Ltd has set up their new factory in Sirsa, a small town in Haryana to produce biscuits and cakes. They purchased automatic machinery and ensure that proper sanitation and cleanliness is maintained, they ensured that workers washed their hands with sanitizer and wore sanitized caps, overcoats and shoes before entering the factory area.  
 The company provides free lunch to all employees and every employee must eat the food available in the cafeteria irrespective of their post. They also organized a crèche with play area for children of women working in the factory. Mention the various values Surya Bakery Ltd. has adopted while establishing factory.
- Q.22 "A departmental store is a welcome change in big cities but as unwanted guest in smaller towns." Discuss with reasons why smaller towns do not prefer shopping from a departmental store.

**Question No. 23 to 26 carry Five Marks each.**

- Q.23 Why are consumer cooperative stores considered to be less expensive? What are its relative advantages over other large scale retailers?
- Q.24 Who are CWF Agents? What is their role in international business?
- Q.25 Reema received Rs. 1,00,000 from her parents as a gift. She is planning to invest the entire amount but wants her money to be safe and secure. Advise her about the various options where she can invest her money?
- Q.26 Why global enterprises are considered superior to other business organizations?

**Question No. 27 to 30 carry Six Marks each.**

- Q.27 Rosy was going home for summer holidays. She was waiting her train at the railway station. She suddenly remembered that she did not lock her luggage properly. She looked around and saw a man selling chain locks. She called him. She went to the book store at the platform and purchased a magazine to read in the train.  
 (i) Identify the type of itinerant traders from whom Rosy purchased goods.  
 (i) Give examples of two other traders who sell low priced daily necessity goods.
- Q.28 Meditek Limited imports goods and sell them across India. The company has its registered office in Delhi. They sell their goods through distributors who buy in bulk and further sell through dealers. Meditek sends goods through rail, road and at times through courier. The company ensures that before dispatch all goods are insured. Meditek provides exclusive rights to each distributor to sell product in specific areas. This builds confidence amongst distributors.  
 (i) Identify the type of trade Meditek Ltd. is doing? Quote lines to support your Answer.  
 (ii) State any three services which distributors may provide to their dealers.  
 (ii) Do you think Meditek Ltd. conducts business ethically? Give reasons.

**Roll No. \_\_\_\_\_ Code. No. 11/Economics/NLCS/71**

**Annual Examination 2016 – 17**

**Time: 3:00 Hrs.**

**M. M. 100**

- Q.1 Which employment generating programmer for poverty eradication was introduced in year 2005? 1
- Q.2 Which of the following is correct for a Bar diagram? 1
- (i) It is one dimensional diagram.
  - (ii) It is two dimensional diagram.
  - (iii) It is diagram with no dimension.
  - (iv) None of these
- Q.3 When was the central pollution Control Board set up? 1
- Q.4 Which body finally approves the draft of plans in India? 1
- Q.5 Which of the following is incorrect when tariffs are imposed? 1
- (i) Imported goods become dear
  - (ii) Imported goods become cheap
  - (iii) The demand falls down
  - (iv) Imports tend to reduce
- Q.6 Per capital income can be calculated by. 1
- Q.7 ----- aims at maintaining the quality of life of both present and future generation. 1
- Q.8 Which of the components are part of AYUSH? 1
- Q.9 Which average is affected most by the presence of extreme----? 1
- Q.10 What is the range of simple correlation of coefficient? 1
- Q.11 Identify the values involved and importance of poverty alleviation by the Indian Government. 3

- Q.12 Agriculture sector appear to be adversely affected by the reform process. Why? 3
- Q.13 How do both education and health led a nation towards higher economic growth? 3
- Q.14 Explain the “exclusive” and “inclusive” method used in classification of data? 3
- Q.15 Find the standard deviation of X series if coefficient of correlation between two series X and Y is = 0.28 and their covariance is 7.6 and variance of Y series is 81.90? 3
- Q.16 In a town 25% of persons earned more than Rs. 45000 where 75% earned more than Rs. 18000. Calculate the absolute and relative values of dispersion? 3
- Q.17 Calculate the mean denation from mean for the following marks obtained by 10 students. 3
- |          |     |     |     |      |
|----------|-----|-----|-----|------|
| Marks    | 2-4 | 4-6 | 6-8 | 8-10 |
| Students | 3   | 4   | 2   | 1    |
- Q.18 What is globalization? What are the factors responsible for globalization? 3
- Q.19 Discuss the importance of organic forming? 3
- Q.20 “Expenditures on education and health make substantial long term impact”. Explain. 3
- Q.21 How is human development a broader term as compared to human capital? 4
- Q.22 Write about the various crop & production under diversification of agriculture. 4

- Q.23 Calculate mode of the following series : 4
- | Marks           | 0-10 | 0-20 | 0-30 | 0-40 | 0-50 | 0-60 | 070 | 0-80 | 0-90 |
|-----------------|------|------|------|------|------|------|-----|------|------|
| No. of Students | 4    | 6    | 24   | 46   | 67   | 86   | 96  | 99   | 100  |
- Q.24 Write short note on contribution of new economic policy in Indian Economy. 4
- Q.25 Explain the feature Indian Economy on the eve of independence. 6
- Q.26 Distinguish between census and sampling method of data collection. 6
- Q.27 The Indian Sugar Mills Association reported that Sugar Production during the first fortnight of December 2001 was about 387000 as against 3,78,000 tons during the same fortnight last year (2000). The off take of Sugar form factories during the first fortnight of December 2001 was 2,83,000 tons for internal consumption and 41,000 tons for exports a against 1,54,000 tons for internal consumption and nil for exports during the same fortnight last season. 6
- (i) Present the data in a tabular form.
  - (ii) Suppose you were to present the data in diagrammatic form which of the diagrams would you use and why?
  - (iii) Present these data diagrammatically.
- Q.28 What are the main problems of human capital formation in India? Explain. 6
- OTBA**
- Q.29 Why China introduce on child policy? What are the impact of one child policy on demography structure of China? 5
- Q.30 (i) Explain the role of FDI in the economic development of developing countries like India and Pakistan. 2½  
(ii) Write a note on make in India policy. 2½
- ORAL + PROJECT →**
- \*\*\*\*\*
- 10**

Roll No. \_\_\_\_\_

Code. No. 11/Physical Ed./NLCS/57

## Annual Examination 2016 – 17

Time: 3:00 Hrs.

M. M. 70

Q.1	Define Physical Education.	1
Q.2	What is the meaning of Physical fitness?	1
Q.3	What is Olympic movement?	1
Q.4	What is ‘Yama’?	1
Q.5	What do you mean by ‘IPC’?	1
Q.6	Define Physical Activity.	1
Q.7	What do you mean by ‘Somato types’?	1
Q.8	Define ‘Anatomy’.	1
Q.9	Define ‘Centre of gravity’.	1
Q.10	What do you mean by ‘plateau’?	1
Q.11	What is passive warming-up?	1
Q.12	What is Flexibility’? Write name of various types of Flexibility in brief.	3
Q.13	What do you mean by ‘Asanas’? Write the types of Asanas?	3
Q.14	Mention the rules for competitions in Ancient Olympic Games	3
Q.15	Enumerate the objectives of Physical Educations in brief.	3

- Q.16 Explain the concept of adapted Physical Education in brief. 3
- Q.17 Explain about the substance prohibited in competition. 3
- Q.18 Discuss any three components of Positive Life Style. 3
- Q.19 Discuss the main Functions of IOC. 3
- Q.20 Elucidate the doping. Control procedure in detail. 5
- Q.21 What do you mean by Test and measurement? Write there importance in the field of sports. 5
- Q.22 Elucidate the components of health related Physical Fitness in brief. 5
- Q.23 “The proper knowledge of anatomy and Physiology is very significant in the field of sports”. Explain your views on this statement. 5
- Q.24 Write the importance of warming up in detail. 5
- Q.25 What is biomechanics? Explain there importance of biomechanics in Physical Education and Sports. 5
- Q.26 Explain the problems of adolescence in detail. 5

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