

Q15- On the basis of the narrations , fill in the missing values;

4

DATE	PARTICULARS	LF	Dr	Cr
1	<p>..... Dr</p> <p>..... Dr</p> <p>To.....</p> <p>[Being the capital Introduced in cash 1,00,000 and balance by cheque]</p>		<p>.....</p> <p>.....</p>	6,00,000
2-	<p>..... Dr</p> <p>..... Dr</p> <p>..... Dr</p> <p>To.....</p> <p>[Being the goods purchased in cash paying CGST and SGST @ 6% each]</p>			11,200
3-	<p>..... Dr</p> <p>To</p> <p>[Being depreciation charged on furniture 1,000]</p>			
4-	<p>..... Dr</p> <p>To.....</p> <p>[Being cheque paid to Anil Rs 4,000]</p>			

Q16- Prepare an Accounting Equation

4

- 1- Commenced business with cash 50,000 and goods 50,000
- 2- Sold half the goods at a profit of 20% to Gopal
- 3- Bought goods for cash 20,000 and on credit 25,000
- 4- Bought furniture on credit 25,000 from Mohan
- 5- Paid 24,500 to Mohan in full settlement of his account

Q17- From the following particulars prepare purchase book of M/s Sunil Bombay dealers in furniture

6

- Jan 1 Purchases from SSK Furniture
 20 Dozen chair @ 200 per chair
 40 Sofa Set @ 1000 per set
 Less 10% Trade Discount Plus GST 6% each
- Jan 7 Purchase from Pustak Mahal
 200 Drawing Books @ 70 per books
 GST 6% each
- Jan 10 Purchases From Mukesh for Cash
 100 Table @ 200 per Table
 50 Chair @ 100 per chair
 Plus IGST 12%
- Jan 15 Purchses from Ankit Furniture House
 5 Gross Stool @ 100 per Stool
 100 T-Table @ 200 per Table
 50% amount paid by cheque plus GST 6% each
- Jan 20 Purchases from Bhilwara Furniutre House
 400 Stool @ 50 per stool
 200 chair @ 100 per chair
 Less 5% T.,D. Plus IGST 12%
 60% amount paid by cheque

Q18- Rectify the following errors

- 1- Returns Inwards Book is over cast by 100
- 2- Bought goods from Ram 400 was entered in sales book and posted there from to credit of Ram
- 3- Plant bought 4000 from Sohan was passed through Purchases Book 3000
- 4- Bought goods from Mohan 2000 was passed through the sales book. However the account of Mohan stands credited by 3000.
- 5- Bills for 920 received from Ramesh for repair of machinery was entered in the purchases book as 720.
- 6- A discounted Bill of Exchange for 20,000 returned by the firm's bank had been credited to the Bank account and debited to discount allowed account.

6
6

Q19- Prepare Trial Balance from Following Balances –

01	Building A/c	102,500	08	Loan From Vijay A/c	12,500
02	Furniture A/c	25,000	09	Bank Over Draft	18,500
03	Capital A/c	275,000	10	Debtors A/c	3,000
04	Creditors A/c	72,000	11	Drawings A/c	4,000
05	Machinery A/	125,000	12	Bad debts recovered	1,000
06	Input GST	5,000			
07	Purchase A/c	23,750			

Q20 -Record the following transactions in a Double Column cash book with cash and bank column

6

- Sept 1 Cash in Hand 75,000 ; Bank Overdraft 35,000
 Sept 2 Paid Telephone charges 7,000
 Sept 15 Goods sold to Ram 70,000 on 5% Cash Discount
 Sept 15 Cash deposited in to Bank 40,0000
 Sept 15 Goods purchased and paid by cheque 20,200
 Sept 20 Paid Rent including GST 5600
 Sept 25 Drew from Bank for personal use 4000
 Sept 30 Salary Paid to Hari 10,000
 (CGST & SGST charged 6% each)

Q21- From the following particulars of Mukesh and Company prepare bank reconciliation statement as on 30 June 2017

6

- 1- Debit balance as per Pass Book 2400
- 2- Cheque for 8500 paid into bank in the month of June but cheques for 4700 were credited by Bank till 30 June
- 3- Cheques drawn on 20 June for 3600 and cheque for 1100 was presented for payment on July 3 and a cheque for 200 had not been presented so far
- 4- A Cheque issued for Rs.1250 was recorded as Rs.2500 in the Cash Column Bank Column of payment side of cash book was under cast 1000
- 5- A cash discount allowed of Rs.5000 was recorded as Rs.5500 in the Bank Column. The credit balance of Rs 3400 on 15 June was brought forward on 16 June as debit balance
- 6- One of the debtors deposited a sum of Rs 1000 in the bank account not recorded in cash book

Q22 Enter the following transactions of Ramesh Delhi for April 2018 are given below who trade in Machinery 8

April 1 Business started with cash 1,00,00; Furniture 2,00,000 and Building 5,00,000

April 3 Machine Purchased from Harish 50,000 on 5% Trade Discount

April 6 Goods sold to Mohan 80,000 on 5% Trade Discount and 5% Cash Discount

April 7 Machine sold to Suresh 40,000 on 5% Trade discount and 10% Cash discount 50% amount received

April 17 Personal House sold 4,00,000 and 3,00,000 introduced in business

April 18 Goods sold to Ankit 20,000 on 5% Trade Discount & Cheque received from Ankit 20200 in final settlement and deposited in to bank

April 25 Machine 5000 withdrawn for personal use

April 26 Sohan is declared insolved and received from his official receiver a dividend of 60 paise in the rupee on a debt of 1000

OR

Enter the following transactions in journal of Mohan Bhilwara for July 2018 are given below who trade in Furniture [CGST And SGST 6% each and IGST 12%]

July 1 Business started with cash 3,00,00; Machinery 1,00,000 and Building 4,00,000

July 5 Furniture Purchased from Manish 1,00,000 on 5% Trade Discount

July 7 Goods sold to Sohan Jaipur 90,000 on 5% Trade Discount and 10% Cash Discount

July 9 Cash 5000 and Furniture 7000 withdrawn for personal use

July 11 Machine sold to Mohit Bhilwara 50,000 on 5% Trade discount and 10% Cash discount 50% amount received

July 12 Furniture sold to Ankit Gujrat 80,000 on 5% Trade Discount and Cheque received from Ankit 90,000 in final settlement and deposited in to bank

July 20 Furniture returned to Manish 5,000

July 25 Interest received in advance from Aditya 3,000

Q23- Prepare following ledger account from above journal 3

(i) Cash A/c (ii) Sales A/c

Q23- A company purchased a machinery for 1,00,000 on 1st July 2017. Another machinery costing 50,000 was purchased on 1 Oct 2017. On 30 June 2017 the machinery purchased in 1st July 2017 was sold at a loss of 10,000. On 1 January 2018 New machinery purchased 80,000. The company charges depreciation at the rate of 10% per annum on Diminishing Balance Method. Accounts are closed on 31st March every year. Prepare the Machinery account for 3 years. 8

OR

A company purchased a machinery for 50,000 on 1st Oct. 2017. Another machinery costing 60,000 was purchased on 31st Dec 2017. On 1 Oct 2018 the machinery purchased in 1st Oct 2017 was sold at a loss of 10,000. On 1 January 2019 New machinery purchased 80,000. The company charges depreciation at the rate of 10% per annum on written down method. Accounts are closed on 31st March every year. Prepare the Machinery account for 3 years.

ORAL →

10

Half Yearly Examination 2018 – 19

Time: 3:00 Hrs.

M. M. 70

General Instructions :

- (i) **All** questions are compulsory. There are **27** questions in all.
- (ii) This question paper has **four** sections : Section A, Section B, Section C, and Section D.
- (iii) Section A contains **five** questions of **one** mark each, Section B contains **Seven** questions of **two** marks each, Section C contains **twelve** questions of **three** marks each, Section D contains **three** questions of **five** marks each.
- (iv) There is no overall choice. However, an internal choice has been provided in **one** question of **two** marks, **one** question of **three** marks and all the **three** questions of **five** marks weightage. You have to attempt only **one** of the choices in such questions.

Section – A

- Q.1 Is the measure of an angle dependent upon the unit of length? Explain.
- Q.2 When does a cyclist appear to be stationary with respect to another moving cyclist?
- Q.3 The distance travelled by a body is directly proportional to time. Is any external force acting on it? Explain.
- Q.4 To maintain a rotor at a uniform angular speed of 200 rad/sec. an engine needs to transmit a torque of 180 Nm. What is the power required by the engine. Assume that the engine is 100% efficient.
- Q.5 A Vehicle moving a speed of 18Kmh^{-1} covers ----- m in 1 sec.?

Section – B

- Q.6 Convert : (a) 1 Newton into _____ dyne. (b) 1 dyne in to _____ Newton.
- Q.7 The velocity time relation of an electron starting from rest is given by $v = kt$, where $k = 2$, calculate the distance travelled in 3sec.
- Q.8 The sum and difference of two vectors are perpendicular to each other. Prove that the vectors are equal in magnitude?
- Q.9 There is a limit beyond which the polishing of a surface increase friction resistance rather than decreasing it? Explain.
- Q.10 Ten one-rupee coins are put on top of each other on a table. Each coin has a mass m kg. Give the magnitude and direction of –
- (i) The force on the 7th coin [counting from bottom] due to all the coins on its top.
- (ii) The reaction of the 6th coin on the 7th coin?
- (iii) Deduce the relation between torque and angular momentum?

OR

An aircraft executes a horizontal loop at a speed of 720 Km/h with its wings banked at 15° . What is the radius of the loop.

- Q.11 Prove that rate of change of angular momentum is equal to torque acting on it.?
- Q.12 Standing is not allowed in a double Decker bus. Why?

Section - C

- Q.13 Find the value of 100 Joule on a system which has 20cm., 250gm. And half minute as fundamental unit of length, mass and time.

OR

If density “D”, acceleration due to gravity “g” and frequency “ ν ” are the basic quantities, find the dimensions of force?

- Q.14 Two vectors \vec{A} and \vec{B} are inclined to each other at an angle θ . Using parallelogram law of vector addition, find the magnitude and direction of their resultant.
- Q.15 Briefly explain how is a horse able to pull a cart. Find suitable mathematical expression?
- Q.16 Discuss the Newton’s law of motion?

- Q.17 State and prove parallel axis theorem?
- Q.18 Friction is a necessary evil. Explain. Describe the various method by which friction can be reduce?
- Q.19 A ball is dropped from a height of 90m. on a floor. At each collision with the floor, the ball loses one tenth of its speed. Plot the speed-time graph of its motion between o to 12sec.?
- Q.20 The Sun's angular diameter is measured to be $1920''$. The distance D of the Sun form earth is $1.496 \times 10^{11} m$. What is the diameter of the Sun?
- Q.21 Deduce the dimensional formulae for the following physical quantities –
 (i) Universal Gravitational constant (ii) Power
 (iii) Young's modulus (iv) surface tension
 (v) coefficient of viscosity (vi) torque
- Q.22 Deduce the following equations for uniformly accelerated motion by using integration technique :
 (i) $v=u+at$ (ii) $s=ut+ \frac{1}{2} at^2$ (iii) $v^2=u^2+2as$.
- Q.23 A stone when thrown on a glass window smash the window pane to pieces, but a bullet from the gun passes through making a clean hole. Why
- Q.24 If three point masses of equal magnitude m are situated at the vertices of an equilateral triangle of side "a", then what will be the co-ordinates of the centre of mass of this system?

Section - D

- Q.25 (i) Determine the co-ordinates of the centre of mass of a right circular solid cone of base radius R and height h?
 (ii) Find relation between torque and moment of Inertia?

OR

Derive an expression for the moment of inertia of a uniform solid sphere about its any diameter. Hence find the expression for its moment of inertia about its tangent?

- Q.26 A body is projected with a velocity u making an angle θ with the horizontal. Derive an expression for its horizontal range. Determine the condition for maximum height, time of flight, time of maximum height and also show that its trajectory is a parabola.

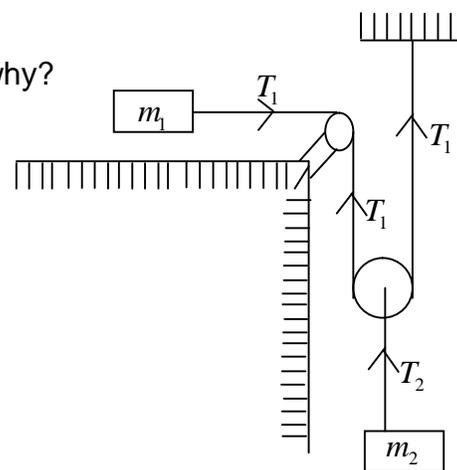
OR

Define centripetal acceleration. Derive an expression for centripetal acceleration of a particle moving with uniform speed v along a circular path of radius r. Find this relation in terms of angular velocity w also.

- Q.27 (i) What do you mean by banking of a curved road? Determine the angle of banking so as to minimize the wear and tear of the tyre of a car negotiating a banked curve.
 (ii) A rocket with a lift off mass 20,000 kg. is blasted upwards with on initial acceleration $5m/s^2$. Calculate the initial thrust of the blast.

OR

- (i) It is easier to pull a lawn mower than to push it? Explain why?
 (ii) In terms of masses m_1, m_2 and g, find the acceleration of both the blocks shown in fig. Neglect all friction and masses of pulley.



Roll. No.

Code No. 11/English/NLCS/102

Half Yearly Examination 2018 – 19

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

Q.1 Read the following passage carefully and answer the questions: 12

The First Man in Space

1. Yuri Gagarin, the first man to travel into space. The Russian scientists were ready to send up a man into the space, and they chose Major Yuri Gagarin to be the first pilot.
2. He had to go through a long and difficult period of training, since he would have to carry out many scientific experiments during his journey, and had also to know as much as possible about the rocket in which he was to fly. He would be taking great risks, for it was impossible to tell just what the effects of travelling in space would be. If anything went wrong with the rocket, Gagarin would be certain to lose his life. However, Gagarin was ready for any risk, and quickly learned all that he needed to know. On April 12th, 1961, his spaceship, the Vostok, was ready, and the great adventure began.
3. Flying a spaceship is not the same as flying an ordinary aircraft. Instead of sitting at the controls, the pilot lies flat upon a couch; and the take off is mainly automatic, though the pilot must always be ready in case anything goes wrong. Fortunately, all went well; the Vostok was launched by its powerful motors, and before long it was more than 100 miles up, travelling at a speed of 5 miles a second 18,000 mph – faster than any man had travelled before. Gagarin did not feel any sensation of speed, but he could look through the porthole of his pressurised cabin and see the Earth far below, looking like a vast globe instead of a flat plain. He could make out coastlines, rivers, forests, and clouds; he passed over Siberia, then on to South America, and then over Africa.
4. Gagarin was busy all the time making scientific measurements. Also, as the Vostok was equipped with radio, he was able to give the scientists on the ground a running commentary on everything he saw before long the spaceship passed into the Earth's shadow. When it came out of the shadow again, the horizon glowed a brilliant orange colour. In space the sky looked black even when in the sunlight, as Gagarin had expected it to look. It is only from the Earth that the sky looks blue; it is not really blue.
5. When Gagarin had been in space for rather over an hour, he had nearly completed a journey right round the Earth, and it was time to prepare for the landing. This was perhaps the most dangerous part of the whole trip. If he came into the air too quickly, his ship would rub against the air particles, and the friction would make the ship so hot that it would burn up. The speed of Vostok had to be checked gradually. Again all went well. The outer hull of the ship did become hot, but not too hot. The Vostok steadily dropped closer and closer to the ground until, when not far from the ground, Gagarin's cabin was separated from the rest of the rocket; a huge parachute opened, and the cabin, with Gagarin in it, floated gently down to a safe landing. Two women working in the fields saw him, and came running up. As they drew near, Gagarin opened the door of his cabin and climbed through, his journey over. He had been up for 108 minutes, during which time he had flown right around the world.

1.1 On the basis of your reading of the passage, answer the following questions by choosing the best of the given choices. 1 × 6 = 6

a) How did Gagarin prepare for the space flight?

- | | |
|--|----------------------------------|
| (i) By getting physically fit. | (ii) By collecting enough money. |
| (iii) By going through difficult training. | (iv) By studying science. |

- b) What is the biggest difference between flying a spaceship and flying an aircraft?**
 (i) The pilot has to lie on his back. (ii) The spacecraft is much faster.
 (iii) Flying the spacecraft is more difficult. (iv) Flying the spacecraft is more dangerous.
- c) What all did Gagarin experience or while sitting in the spaceship 'vostok'?**
 (i) He experienced sensation of speed. (ii) He made out coastlines, rivers, forests and clouds.
 (iii) Both i and ii (iv) He could not look through the porthole of his cabin.
- d) Which was the most dangerous part of the trip?**
 (i) The time of take off (ii) When the spaceship passed into the earth's shadow
 (iii) The time of landing (iv) When the spaceship comes out of the earth's shadow
- e) Which word shows the movement of vostok as it started to land (para5)?**
 (i) Steadily (ii) Running (iii) Launched (iv) Passed
- f) Which words is the exact opposite of the word 'sunk' as used in the (para5)?**
 (i) Houred (ii) Drifted (iii) Slided (iv) Floated

1.2 Answer these questions briefly.

1×6 = 6

- a) Why was the return to the earth the most dangerous part of the space flight?
 b) What was Gagarin's main task during his flight in space?
 c) Gagarin had seen sights no one had seen before. Give an example.
 d) What risks were involved in the journey in space for Gagarin?
 e) Which word in (Para1) means the same as 'the area outside the earth's atmosphere'?
 f) Which word in (Para5) is the antonym of the word 'safe'?

Q. 2 Read the following passage carefully and answer the questions:

8

- 1 Many Sufferers of arthritis have been motivated to get their joints replaced. And why not? If a surgical procedure can abolish pain and restore mobility, then go for it. Why shouldn't knee replacement become what lens implant is to the eye with cataract? But what does a proactive person in his or her early forties do to prevent arthritis altogether? The answer is quite a bit. A large part of osteoarthritis is the result of our doing. The degeneration of knee joints is accelerated by overweight. Here is a checklist of five things you can do to avoid knee trouble.
2. The greater the weight, the more the wear on the joints. A truck tyre designed to carry a ton of load will wear out if it is made to carry two tons. The joint lining or the cartilage is no different. If you shed excess weight scientifically in your forties, your chances of developing osteoarthritis in the sixties drop significantly.
3. As far as the knees are concerned, there are two major workouts: First reduce weight and maintain it. The best way to do so is swimming. If you swim briskly for a sustained period, the fat can be burnt without harming the knees. If you are not a swimmer, you could try cycling. It is a very effective method of burning fat and providing friendly exercise to the knees. You could, of course, stick to walking. These exercises, done four times a week for 45 minutes at a good intensity, could help you knock off the excess fat weighing on your knees.
4. The second thrust area is strengthening the muscles around the knee. The largest muscle of the body is the front of the thigh, which protects the knee from wear. There are simple exercises which can strengthen the quadriceps of your thighs. Sitting in a chair and raising your leg to a horizontal position helps the quads. You could add a small weight of a kilo or so around your ankle for better impact. But what you shouldn't do are these – jumping, high impact aerobic dancing and full squats. These are all potentially harmful to the knee. In your action plan for knee-care, start your workout with a warm-up, stretching, followed by a session of cycling, weight training for your thighs and conclude it by a cool-down.
5. To get the most from your knees, keep a good posture especially while at work. Pay attention to the chair you're sitting in. Get a chair ideal for your height where your knees are bent at a comfortable angle, allowing you to sit down and get up easily. Sitting cross-legged and using low furniture can usher in knee problems. If your job involves standing for prolonged hours, you could use a small stool to keep your feet alternately to de-load the knees.

6. Many cases of osteoarthritis are due to neglecting knee injuries. A twisted knee in badminton or a ligament injury during cricket can lead to incapacitating arthritis in the future. With the advent of diagnostic and therapeutic modalities like the MRI and arthroscopy, these injuries can be treated and arthritis prevented.
7. A relaxed mind and calm disposition can help in preventing knee problems. A constantly stressed out individual is in a state of excessive tone in the muscles which worsens the posture. A state of prolonged stress can also worsen our immune system and affect the knees along with a host of other serious problems. Exercise, meditation and music can be helpful in keeping you calm and stressfree. You can get better service from your knees if you take a few precautions in your younger years.
- 2.1 Make notes on the passage in a suitable format using recognisable abbreviations wherever necessary. Give a suitable title to the passage. **5**
- 2.2 Write a summary of the passage based on your reading. **3**

SECTION – B (Writing & Grammar)

- Q.3** As the vice-principal of your school write a notice informing the students of classes XI and XII about the overnight excursion to a place of historical importance. **4**

OR

You are the owner of a bookstore and need a salesman. Write an advertisement for the classified column of a newspaper.

- Q.4** You are Anjali/Ajay of 101, Sector-8, Panchkula. You read the following news item in “The Tribune” dated Feb. 6, 2018. You were greatly distressed and decided to write a letter to the editor on the subject “Speed thrills but kills”. **6**

“Collision with rotary leaves 3 dead. Three youth lost their lives and three others were left battling for theirs when their Honda city rammed into a roundabout in the early hours of Monday

OR

You are Aditya/Priya living in House n. 7322, Sector 14, Chandigarh. You have seen an advertisement in the newspaper for the post of a ‘Software Engineer’ in National Software Company. Write an application with complete biodata to the manager of the company.

- Q.5** This year students of your school organised many campaigns to create awareness in society towards some social evils. The efforts of the students were appreciated by all. Write a speech on the ‘Role of Students in National Development’ for publication in your school magazine. (150-200 words) **10**

OR

Your school organised a seminar on “Climate change and its impact on India”. Eminent speakers were invited to deliver lectures on far-reaching and disastrous consequences of green house gases, increased carbon dioxide emissions, ozone depletion and Arctic ice melting. There was also a question and answer session. Write a report on the event for your school magazine. You are Roshni/Ravi of Deep Public School. (150-200 words)

- Q.6** The following passage has not been edited. There is an error in each line underline the error and write the correct word in front of it in your answer sheet.

½×8 = 4

It has been said that anyone lives by	(a)
Sell something or the other. In the light of	(b)
this statement, teachers lives of selling	(c)
knowledge, philosophers by selling wise	(d)
and priests by selling spiritual comforts.	(e)
It is extreme difficult to estimate the	(f)
true value for the service which people	(g)
perform to us.	(h)

- Q.7 Fill in the blanks using the correct form of the words given in the brackets.** $\frac{1}{2} \times 8 = 4$
 I (a) (halt) on the road. As soon as I saw the elephant, I (b)(know) with perfect certainty that I ought not (c) (shoot) him. But at that moment I (d) (glance) round at the crowd that (e)(follow) me and was eager for fun and meat. The crowd (f)(block) the road for a long distance on either side. Now I (g)(be) in a tricky situation which (h)(try) limits of my patience.
- Q.8 Rearrange the following to form meaningful sentences.** $1 \times 2 = 2$
 a) the / sparrow / from / city / it / disappeared / house / has / seems / common / the / that
 b) factors / and / pollution / herbs / native / important / the / responsible / are / loss / shrubs / of / and

SECTION – C (Literature)

- Q.9 Read the following stanza and answer the questions that follow.** $1 \times 3 = 3$
*“The cardboard shows me how it was
 when the two girl cousins went Paddling
 each one holding one of my mother’s Hands
 And she the big girl – some twelve years or so,
 All three stood still to smile through their hair
 At the uncle with the camera”*
- a) What the cardboard’ resemble here?
 b) Who were the two girls referred to? Where had they gone?
 c) “All three stood still to smile through their hair.” Which literary device has been used here?

OR

*“The laburnum top is silent,
 quite still In the afternoon yellow September sunlight,
 A few leaves yellowing,
 all its seeds fallen.”*

- a) Why laburnum top is silent?
 b) Name the poet.
 c) Why the leaves have turned yellow?
- Q.10 Short type questions (Do Any 3)** $3 \times 3 = 9$
 a) How did the sparrows mourn the death of the grandmother?
 b) What did carter do to separate Tut’s mummy from its solid gold bottom?
 c) Why couldn’t the narrator believe that his cousin Mourad couldn’t have bought the horse?
 d) Justify the title of the short story “The Address”?
- Q.11** How does the story suggest that optimism helps to endure “The direct stress”? (we’re not afraid to die -----) **6**

OR

The Chinese concept of art and painting is different from the western figurative painting. Compare and contrast the two by citing examples from the text “Landscape of the Soul”?

- Q.12** The Short story ‘Ranga’s Marriage’ doesn’t present the changing face of the Indian villages. It is set in the world that existed only in the last century. Justify. **6**
- OR**
- Compare and contrast Mrs. Pearson and Mrs. Fitzgerald.
- Q.13** “We have not inherited this earth from our forefathers; we have borrowed it from our children.” Justify it reasonably. **6**

OR

Describe in brief the pen-picture of the narrator’s grandmother highlighting her noble qualities.

Section – D Listening skills & Speaking skills

20

Half Yearly Examination 2018 – 19

Time: 3:00 Hrs.

M. M. 70

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Section – A

- Q.1 What is Binomial nomenclature?
- Q.2 How many types of roots are present in plants?
- Q.3 What is difference between simple permanent tissue and complex permanent tissue?
- Q.4 What is cell theory?
- Q.5 What is Biomacromolecules?

Section – B

- Q.6 What are the main classes of algae and their main characteristics?
- Q.7 What are different basis of classification?
- Q.8 What is Aestivation and their types?

OR

Write various types of vascular bundle.

- Q.9 Write short note on epithelial tissue.
- Q.10 What is difference between algal bloom and euglenoids?
- Q.11 What is the function of Mitochondria?
- Q.12 What is the structure and functions of plastids?

Section – C

- Q.13 Write short note on virus with diagram.
- Q.14 What are the rules of nomenclature?
- Q.15 What is Parthenocarpic fruit and describe its types?
- Q.16 What is vascular cambium?
- Q.17 What is fluid mosaic model?

OR

What is the structure of proteins?

- Q.18 Draw diagram and process of Alimentary canal of cockroach.?
- Q.19 How to separate organic compound from living tissue? What are biomolecules.?

Q.20 How to separate inorganic compound from living tissue? What is dry weight?

Q.21 Write short note on section of chloroplast.

Q.22 Draw T.s. section of dicot leaf.

Q.23 Write only about the different layers of transverse section of leaf.

Q.24 Describe cork cambium (phellogen)?

Section – D

Q.25 What is double Fertilisation?

OR

What is classification and nomenclature of enzymes?

Q.26 Write floral and vegetative characteristics of Fabacea (*Pisum Sativum*).

OR

Describe plant simple permanent tissue with diagram?

Q.27 Write types of muscle tissue with diagram.

OR

Draw the diagram and mechanism of female reproductive system of cockroach?

Half Yearly Examination 2018 – 19

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M. M. 70

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Section – A

- Q.1 How many neutrons & protons are there in ${}_{26}Fe^{56}$ & ${}_{38}Sn^{88}$?
- Q.2 Define molarity?
- Q.3 Define Ionization enthalpy & trend followed in periodic table.
- Q.4 Define Redox couple.
- Q.5 What are Buffer solutions?

Section - B

- Q.6 What is the frequency & wavelength of a photon emitted during a transition from $n=5$ state to the $n=2$ state in hydrogen atom?

OR

Explain Drawbacks of Rutherford model?

- Q.7 A solution is prepared by adding 2 g of a substance A to 18 g of water. Calculate the mass percent of the solute?
- Q.8 Write the limitations of Mendeleev periodic table.
- Q.9 Draw the Lewis structure of $SiCl_4$, CO_3^{2-} .
- Q.10 Calculate the volume occupied by 8.8g of CO_2 at $31.1^\circ C$ and 1 bar pressure.
- Q.11 Explain the classification of acid & Base.
- Q.12 Calculate oxidation number of underlined element – (i) $NaH\underline{S}O_4$ (ii) $K_2\underline{Mn}O_4$

Section - C

- Q.13 Explain why (i) Be has higher Ionization Enthalpy than B? (ii) O has lower Ionization Enthalpy than N?
- Q.14 Calculate – (i) Mass of one ${}^{12}C$ atom in gram. (ii) No. of atoms in 52 moles of Argon
- Q.15 The molecular mass of an organic compound is 78 and its percentage composition is 92.4% C & 7.6% H. Determine the molecular formula.
- Q.16 Explain the rules followed during filling of orbital's.
- Q.17 Explain (i) Dual behavior of matter (ii) Heisenberg uncertainty principle.
- Q.18 Draw the resonance structure of SO_3 , NO_2 & NO_3^- .
- Q.19 Explain the Isotherm of CO_2 at various temperature.

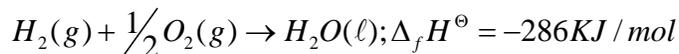
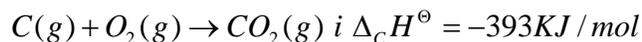
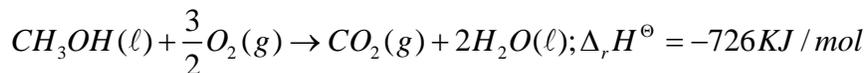
OR

Explain the various types of intermolecular forces.

- Q.20 Explain : - (a) Boyle's Law (b) Charles Law (c) Gay Lussac's Law

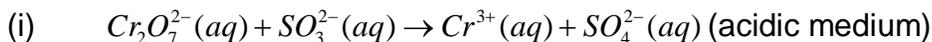
Q.21 Define system & its various types.

Q.22 Calculate the $\Delta_f H^\ominus$ of $CH_3OH(\ell)$ from the following data –



Q.23 Explain Le-Chatelier principle & the various factors affecting it.

Q.24 Balance the following equation :



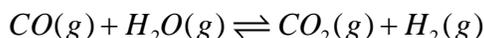
Section – D

Q.25 (i) The Ionization constant of HF is 3.2×10^{-4} . Calculate the degree of dissociation of HF in its 0.02 M solution. Calculate the concentration of all species present (H_3O^+ , F^- and HF) in the solution & its pH .

(i) Define common ion effect. 4+1=5

OR

(i) The value of $K_C = 4.24$ AT 800 K for the reaction.



Calculate equilibrium concentrations of CO_2 , H_2 , CO & H_2O at 800 K, if only CO & H_2O are present initially at concentration of 0.10 m each.

(ii) Explain the various factors affecting acid strength. 4+1=5

Q.26 (i) For the reaction : $2A(g) + B(g) \rightarrow 2O(g)$

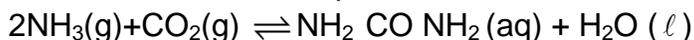
$$\Delta U^\ominus = -10.5KJ \text{ and } \Delta S^\ominus = -44.1J/K$$

Calculate ΔG^\ominus for the reaction & predict whether the reaction may occur spontaneously.

(ii) Differentiate extensive & intensive property. 3+2=5

OR

(i) Find out the value of equilibrium constant at 298K.



$$\Delta_r G^\ominus = -13.6KJ/mol.$$

(ii) Define specific heat capacity & molar heat capacity

Q.27 The mass of an electron is 9.1×10^{-31} kg. If its K.E. IS 3.0×10^{-25} J. Calculate its wavelength.

Write four properties of cathode rays. 3+2=5

OR

(i) Explain the various quantum numbers.

(ii) What are the reasons of stability of completely filled & half filled sub-shells.

Roll. No.

Code No. 11/Physical Ed./NLCS/58

Half Yearly Examination 2018 – 19

Time: 3:00 Hrs.

M. M. 70

Note:- Q. no. 1 to 12 One Marks Each. Q. no. 13 to 17 Carry Two Marks Each. Q. No. 18 to 23 Carry Three Marks Each. Q. No. 24 to 29 Carry Five Marks Each.

- | | | |
|------|---|---------|
| Q.1 | Define Physical Education. | 1 |
| Q.2 | What is sports Journalism? | 1 |
| Q.3 | What do you mean by 'Olympic-Movement'? | 1 |
| Q.4 | What is Olympic-Motto? | 1 |
| Q.5 | What do you mean 'Cardiovascular Endurance'? | 1 |
| Q.6 | What is body composition? | 1 |
| Q.7 | What do you mean by special Olympics Bharat? | 1 |
| Q.8 | What do you mean by 'I.P.C.'? | 1 |
| Q.9 | What do you mean by 'Yama'? | 1 |
| Q.10 | What do you mean by 'Parinama'? | 1 |
| Q.11 | Define Adventure sports. | 1 |
| Q.12 | What is Mountaineering? | 1 |
| Q.13 | Describe the various Physical Education courses available in India write any four courses values. | 2 |
| Q.14 | Write short notes on the Olympic flag. | 2 |
| Q.15 | Discuss any two components of positive life style. | 2 |
| Q.16 | What do you mean by Integrated Physical Education? | 2 |
| Q.17 | What are Niyamas? | 2 |
| Q.18 | Explain the objectives of Physical Education in detail. | 1+1+1=3 |
| Q.19 | Discuss about Dronacharya Award, Arjuna Award and Rajiv Gandhi Khel Ratna Award. | 1+1+1=3 |
| Q.20 | Discuss about any three compound of wellness? | 1+1+1=3 |
| Q.21 | Discuss about Paralympics games. | 3 |
| Q.22 | Explain the Asanas in detail. | 3 |
| Q.23 | Explain the trekking. | 3 |
| Q.24 | Explain the origin of Ancient Olympic Games. | 5 |
| Q.25 | Explain the components of Physical Fitness in detail. | 5 |
| Q.26 | What are the various carrier option in Physical Education? Discuss any five option. | 5 |
| Q.27 | What are objectives of Adaptive Physical Education? Write any five points. | 5 |
| Q.28 | Define 'Yoga' write their Importance in daily Life write any five importance. | 5 |
| Q.29 | Define Physical Activity. Write there types also. | 5 |

Roll. No.

Code No. 11/Economics/NLCS/66

Half Yearly Examination 2018 – 19

Time: 3:00 Hrs.

M. M. 100

General Instructions :

- All Questions are compulsory.
- Marks are indicated against each Question.
- Answer should be brief and to the point.

- Q.1 Define micro economics. 1
- Q.2 When is the demand for a good said to be inelastic? 1
- Q.3 Define utility . 1
- Q.4 Give an example of Normative economics 1
- Q.5 Explain three properties of IC. 3

OR

Complete the following table:-

Amount consumed	1	2	3	4	5
Total utility	50	90		140	150
Marginal utility	50		30		

- Q.6 What do you mean by movement in demand curve? explain with the help of example. 3
- Q.7 8 units of a good are demanded at a price of Rs7 per unit. Price elasticity of demand is (-)1. How many units will be demanded if the price rises to Rs8 per unit? 4

OR

Differentiate between movement along demand curve and shift in demand curve?

- Q.8 Why does an economic problem arise? what are these? 4
- Q.9 How does Production possibility curve is effected by unemployment in the economy? Explain 4
- Q.10 Explain concept of marginal rate of substitution with the help of numerical example. Also explain its behaviour along an indifference curve. 6
- Q.11 Explain the condition of consumer's equilibrium under utility analysis. 6

OR

Explain the various degrees of price elasticity of demand. Use diagram.

- Q.12 Explain the concept of production possibility frontier? 6

SECTION B-Statistic for Economics

- Q.13 Define Production. 1
- Q.14 NSSO stands for..... 1
- Q.15 Weighted arithmetic mean =..... 1
- Q.16 Define cumulative frequency series. 1

Q.17 Explain sampling error with the help of an example 3

Q.18 Write a note on Census of India. 3

OR

Write a note on NSSO.

Q.19 Explain different methods of data collection(any four). 4

Q.20 The size of land holdings of 380 families in a village is given below find the median size of land holding 4

Size of land holding	Less than 100	100-200	200-300	300-400	400 and above
No. of Families	40	89	148	64	39

OR

Mean marks obtain by a students in five subjects are 15 .In English he secures 8 mks,in maths12,in hindi18 and in science8. Find out the marks he secured in social studies.

Q21. Following is the height of ten students 4

Students	A	B	C	D	E	F	G	H	I	J
Height	155	153	168	160	162	166	164	180	157	163

Calculate mean using Direct and Short-Cut Methods

Q.22 Define census method. What are its advantages and disadvantages? 6

Q.23 Draw a histogram from the following data and locate the mode. 6

Class interval	Frequency
0-10	5
10-20	11
20-30	19
30-40	21
40-50	16
50-60	10
60-70	8

Q.24 Calculate mean ,median and mode from the following data . 6

X	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
F	8	6	10	12	20	12	5	3	4

OR

Draw the less than and more than ogive . Also locate median .

PROJECT + ORAL →

20

Roll. No.

Code No. 11/Computer Sc./NLCS/25

Half Yearly Examination 2018 – 19

Time: 3:00 Hrs.

M. M. 70

- Q.1 (a) What are tokens in python? Give example. 1
(b) What is the role of indentation in python? 1
(c) What is an entry controlled loop? Explain with example. 1
(d) Which sorting technique is better ? give its efficiency in best and worst case. 1
(e) What is the difference between (30) and (30,)? 1
- Q.2 (a) Which of the following will result in an error for a given valid dictionary D: 1
(i) D+3 (ii) D*3 (iii) D+{3:'3'} (iv) D.update({3:"3"}) (v) D.update({"3":3})
(vi) D.update(3."3")
- Find the errors in the following program codes :
- (b) weather='raining' 1
if weather='sunny':
print("sunblock")
elif weather='snow':
print("skiing")
else
print(weather)
- (c) if n==0 1
print("zero")
elif: n==1
print("one")
elif
n==2:
print("two")
else n==3:
print("three")
- (d) name="rehman" 1
print("greetings")
print("hello",name)
print("how are you?")
- Q.3 (a) Differentiate between interpreter and compiler. 2
(b) Define states and transitions with example. 2
(c) Explain any two features of dictionaries in python. 2
(d) Write an algorithm to check if a student is pass(marks>=33%) or fail(marks< 33%). 2
(e) Write a python program to convert temperature from Kelvin to Celsius. 2
(f) Explain any two functions of operating system. 2
(g) Differentiate between lower() and islower() methods of python. 2
(h) What is the difference between an error and an exception? Give example. 2
- Q.4 Give the outputs for following python code: 2
(a) a=10
b=20
b=b+a
print("a=",a,"b=",b)

- (b) `x=3` 2
`if x!=2:`
`print("first")`
`else:`
`print("second")`
`print("fourth")`
`print("fifth")`
- (c) `X="hello world"` 2
`print(X[:2], X[:-2],X[-2:])`
`print(X[6],X[2:4])`
`print(X[2:-3], X[-4:2])`
- (d) `num=125` 2
`print(num/125)`
`print(num%100)`
`print(num==21 & 2<3)`
`print(not(num<45.9) & (6*2 < =12))`
- (e) `print(87//5)` 2
`print(87//5.0)`
`print((87// 5.0)==(87//5))`
`print((87//5.0)==(int(87//5.0)))`
- Q.5 (a) Draw a state –transition diagram for a game of chess. 3
(b) Draw a block diagram depicting organization of mobile system. 3
(c) Write a program to find the second largest number from a list of numbers given by user. 3
(d) Write a program to print elements of a tuple('this', 'is', 'class', 'of', 'python') in separate lines with elements both indexes (positive and negative). 3
(e) Write a program to print the following pattern: 3
- ```

0
2 2
4 4 4
8 8 8 8 8

```
- Q.6 (a) Give the output produced by following print statements: 4  
`L=["these", "are", "a", "few", "words"], "that", "we", "will", "use"`  
`print(L[3:4])`  
`print(L[3:4][0])`  
`print(L[3:4][0][1])`  
`print(l[3:4][0][1][2])`
- (b) Consider a dictionary `my_num` with single-letter keys, each followed by a 2-element tuple : 4  
`my_num={'a': (5,6), 'b': (1,3), 'c': (9,2), 'd': (1,1)}`  
Write a program to print maximum value from within all of the values tuples at the same index.
- (c) Write a program to sort a sequence using bubble sort .Also show steps to calculate number of operations in bubble sort 4
- (d) Write short notes on : 4  
(i) Mobile processor (ii) Utilities
- (e) Write a program to prompt user for a sentence or for 'q' to quit. if input is a sentence , convert each uppercase letter in lower case and each lower case letter in upper case and print the final sentence. 4  
for example  
`>>> please enter a string, or 'q' to quit: ThiS Is ExAM`  
`tHIs iS eXAm`  
`please enter a string, or 'q' to quit:q`

Roll. No.

Code No. 11/Maths/NLCS/42

# Half Yearly Examination 2018 – 19

Time: 3:00 Hrs.

M. M. 100

## General Instructions :

- (i) All questions are compulsory.
- (ii) The question paper consists of 29 questions divided into four sections A, B, C and D. Section A comprises of 4 questions of **one mark** each, Section B comprises of 8 questions of **two marks** each, Section C comprises of 11 questions of **four marks** each and Section D comprises of 6 questions of **six marks** each.
- (iii) All questions in Section A are to be answered in one word, one sentence or as per the exact requirement of the question.
- (iv) There is no overall choice. However, internal choice has been provided in 3 questions of four marks each and 3 questions of six marks each. You have to attempt only one of the alternatives in all such questions

### Section – A

- Q.1 If  $A = \{1, 2, 3, 4, 5\}$  and  $B = \{2, 4, 6, 8\}$ , find  $A - B$ .
- Q.2 If  $f(x) = x^2$ , find  $\frac{f(1.1) - f(1)}{(1.1 - 1)}$ .
- Q.3 Find argument of  $\frac{1}{1+i}$ .
- Q.4 Find the value of  $k$  for which  $\frac{-2}{7}$ ,  $k$ ,  $\frac{-7}{2}$  are in G.P.

### Section – B

- Q.5 Let  $f(x) = x^2$ , and  $g(x) = 2x + 1$  be two real functions find  $(f + g)(x)$ ,  $(f - g)(x)$ .
- Q.6 Find the value of  $\tan 15^\circ$ .
- Q.7 Solve and write in the form  $a + ib$ .
- (i)  $(1 - i) - (-1 + i)$       (ii)  $(5i) \left(\frac{-3}{5}i\right)$
- Q.8 Solve  $7x + 3 < 5x + 9$ . Show the solution on number line.
- Q.9 The 5<sup>th</sup>, 8<sup>th</sup> and 11<sup>th</sup> terms of a G.P. are p, q and s, respectively. Show that  $q^2 = ps$ .
- Q.10 Find the octant in which the points  $(-3, 1, 2)$  and  $(-3, 1, -2)$  lie.
- Q.11 Show that the points  $(-2, 3, 5)$ ,  $(1, 2, 3)$  and  $(7, 0, -1)$  are collinear.
- Q.12 Draw venn diagram for  $(A \cap B)$

### Section - C

- Q.13 Let  $A = \{1, 2\}$ ,  $B = \{1, 2, 3, 4\}$ ,  $C = \{5, 6\}$  and  $D = \{5, 6, 7, 8\}$ . Verify that (i)  $A \times (B \cap C) = (A \times B) \cap (A \times C)$  and (ii)  $A \times C$  is a subset of  $B \times D$ .
- Q.14 Prove that :  $\cos\left(\frac{\pi}{4} + x\right) + \cos\left(\frac{\pi}{4} - x\right) = \sqrt{2} \cos x$ .

Q.15 Express  $\frac{5+\sqrt{2}i}{1-\sqrt{2}i}$  in the form  $a+ib$ .

Q.16 The difference between any two consecutive interior angles of a polygon is  $5^\circ$ . If the smallest angle is  $120^\circ$ . Find the number of the sides of the polygon.

Q.17 The sum of two numbers is 6 times their geometric mean. Show that numbers are in the ratio  $(3+2\sqrt{2}) : (3-2\sqrt{2})$ .

Q.18 Find the sum of first  $n$  terms and the sum of first 5 terms of the geometric series  $1 + \frac{2}{3} + \frac{4}{9} + \dots$

Q.19 If the origin is the centroid of the triangle PQR with vertices P  $(2a, 2, 6)$ , Q  $(-4, 3b, -10)$  and R  $(8, 14, 2c)$ , then find the values of  $a$ ,  $b$  and  $c$ .

Q.20 Are the points A  $(3, 6, 9)$ , B  $(10, 20, 30)$  and C  $(25, -41, 5)$  the vertices of a right angled triangle?

Q.21 Solve the inequalities :  $\frac{x}{4} < \frac{(5x-2)}{3} - \frac{(7x-3)}{5}$  OR  $\frac{(2x-1)}{3} \geq \frac{(3x-2)}{4} - \frac{(2-x)}{5}$ .

Q.22 Prove that :  $\frac{\sin 5x - 2\sin 3x + \sin x}{\cos 5x - \cos x} = \tan x$  OR  $\frac{\sin x + \sin 3x}{\cos x + \cos 3x} = \tan 2x$ .

Q.23 In a survey of 400 students in a school, 100 were listed as taking apple juice, 150 as taking orange juice and 75 were listed as taking both apple as well as orange juice. Find how many students were taking neither apple juice nor orange juice?

OR

Using properties of sets, show that : (i)  $A \cup (A \cap B) = A$  (ii)  $A \cap (A \cup B) = A$ .

### Section – D

Q.24 Prove that :  $\cos 2x \cos \frac{x}{2} - \cos 3x \cos \frac{9x}{2} = \sin 5x \sin \frac{5x}{2}$ .

OR

$$\cos 6x = 32\cos^6 x - 48\cos^4 x + 18\cos^2 x - 1.$$

Q.25 Prove by using the principle of mathematical induction, for all  $n \in N$ .

$$\frac{1}{1.2.3} + \frac{1}{2.3.4} + \frac{1}{3.4.5} + \dots + \frac{1}{n(n+1)(n+2)} = \frac{n(n+3)}{4(n+1)(n+2)}.$$

Q.26 Find real  $Q$  such that :  $\frac{3+2i \sin Q}{1-2i \sin Q}$  is purely real.

OR

If  $a+ib = \frac{(x+i)^2}{2x^2+1}$ , prove that  $a^2+b^2 = \frac{(x^2+1)^2}{(2x^2+1)^2}$ .

Q.27 Solve the following system of inequalities graphically.  $x+2y \leq 8, 2x+y \leq 8, x \geq 0, y \geq 0$ .

Q.28 Find the equation of the set of point P, the sum of whose distance from A  $(4, 0, 0)$  and B  $(-4, 0, 0)$  is equal to 10.

Q.29 If  $A$  and  $G$  be  $A.M.$  and  $G.M.$ , respectively between two positive numbers. Prove that the numbers are  $A + \sqrt{(A+G)(A-G)}$ .

Roll. No.

Code No. 11/Business St./NLCS/73

## Half Yearly Examination 2018 – 19

Time: 3:00 Hrs.

M. M. 100

Question No. 1 to 8 carry One Mark each :

- Q.1 Name the Intermediaries which arose as part of developed commerce. 1
- Q.2 "Creditors do not actually have to worry about their dues in case the business fails'. In which form of business is this possible? Which special feature is highlighted in this statement? 1
- Q.3 State two factors which decided the size of business. 1
- Q.4 Who heads the departmental undertaking? 1
- Q.5 Mention any two objectives of public sector before 1991.  $\frac{1}{2}+\frac{1}{2}=1$
- Q.6 State three main means of transferring funds through banks. 1
- Q.7 Name the mobile App Introduced by Government as an initiative towards digital payments. 1
- Q.8 Define "Captive Unit". 1

Question No. 9 to 14 carry Three Marks each :

- Q.9 How does outsourcing represent a New model of business? 3
- Q.10 At what time should the insurable Interest be present in case of :  $1 \times 3 = 3$   
(i) Life Insurance (ii) Fire Insurance (iii) Cargo Insurance
- Q.11 Give full form of followings :  $\frac{1}{2} \times 6 = 3$   
(i) MOV (ii) BIFR (iii) MNC (iv) PSU (v) PSE (vi) PPE
- Q.12 In a partnership business, partners must have a written agreement. What are the values followed in this statement. Explain. 3
- Q.13 Cooperative societies exemplify democracy and secularism. Explain. 3
- Q.14 Explain the concept of "Double coincidence of wants. 3

Question No. 15 to 19 carry Four Marks each :

- Q.15 Risk in business is not by choice but a compulsion.  $1 \times 4 = 4$
- Q.16 Explain following terms, also mention the name of the organization they are related to :  $1 \times 4 = 4$   
(i) Mutual agency (ii) MOU (iii) Statutory declaration (iv) OPC
- Q.17 Why is the "Government company" form of organization preferred to other types in the public sector?  $1 \times 4 = 4$
- Q.18 Aman mortgaged his victory against a bank loan. Can Bank insure the factory against fire? Give reason.  $1 \times 4 = 4$
- Q.19 Discuss the salient aspects of B2C commerce.  $1 \times 4 = 4$

**Question No. 20 to 23 carry Five Marks each :**

- Q.20 Why are E-Business and out sourcing referred to as the emerging modes of business? Discuss the factors responsible for the growing importance of these trends. 2+3=5
- Q.21 Amar gets his medical Insurance done but hides the fact that he is a heart patient within two weeks of medical Insurance, he suffer from a massive heart attack. Is he entitled to claim against Insurance? Give reason. 1+4=5
- Q.22 It is a public enterprise established under Indian companies act and conducts business in competition with companies in private sector?
- (i) Identify the type of public enterprises.
- (ii) What is the minimum Investment Government has to make in such companies and who are is the shareholder in the company?
- (iii) Discuss any three Advantage of such companies. 1+1+3=5
- Q.23 Mr. Govind is going for a foreign Assignment for a period of three years. He sold all his furniture and earned money more then he had spent to purchase the same. Will it be considered as a business? Give reason. 1+4=5

**Question No. 24 to 27 carry Six Mark each :**

- Q.24 Commerce is considered as the back bone of Industry and other business activities. Explain. 1×6=6
- Q.25 Why is it important to choose an appropriate form of organization? Discuss the factors that determine the choice of form of organization? 1+5=6
- Q.26 Government of India established PSE to meet the post Independence challenges of poverty, employment, illiteracy and regional imbalance. However, with time, Government reduced the number of Industries reserved under public sector and promoted disinvestment. Why in your opinion Government promoted disinvestment? 6
- Q.27 Explain briefly the principles of Insurance with suitable examples. 1×6=6

**PROJECT + ORAL →**

**10**

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# Half Yearly Examination 2018 – 19

**Time: 3:00 Hrs.****M. M. 100****General Instructions :**

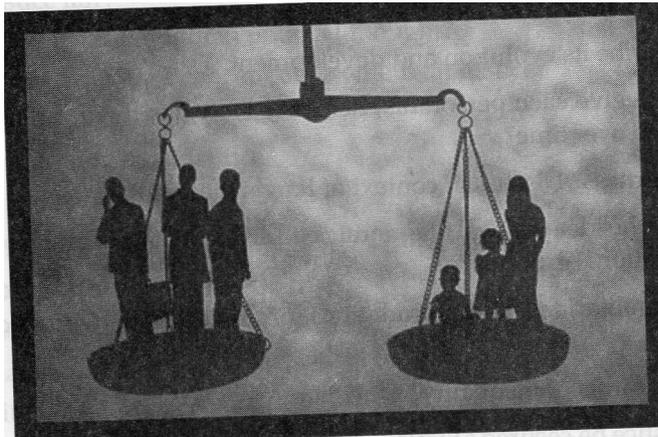
- (i) *All questions are compulsory.*
- (ii) *Questions number 1 – 5 are of **one** mark each. The answers to these questions should not exceed **20** words each.*
- (iii) *Questions number 6 – 10 are of **two** marks each. The answers to these questions should not exceed **40** words each.*
- (iv) *Questions number 11 – 16 are of **four** marks each. The answers to these questions should not exceed **100** words each.*
- (v) *Questions number 17 – 21 are of **five** marks each. The answers to these questions should not exceed **150** words each.*
- (vi) *Question number 21 is a map-based question. Write its answers in your answer-book.*
- (vii) *Questions number 22 – 27 are of **six** marks each. The answers to these questions should not exceed **150** words each.*

- Q.1 Name the current Chief Election Commissioner of India.
- Q.2 What is an Executive?
- Q.3 Write one significance of political theory.
- Q.4 What is Bill of rights?
- Q.5 In which part of the Indian constitution are fundamental rights given?
- Q.6 What is political injustice?
- Q.7 What is universal Adult Franchise?
- Q.8 Mention two ways of securing social justice.
- Q.9 What is Quo Warranto?
- Q.10 What are the features that India has adopted from the British constitution?
- Q.11 What is constitution? What is the need for a constitution?
- Q.12 Why do we need political theory? Give four reasons.
- Q.13 Describe the plato's concept of justice.
- Q.14 Distinguish between directive principles and Fundamental Rights.
- Q.15 Why do we need election for democracy?
- Q.16 Describe the election and Impeachment of Indian President.
- Q.17 Read the passage given below are fully and answer the following questions:  
 "The Assembly has adopted the principle of adult franchise with an abundant faith in the common man and the ultimate success of democratic rule and in the full belief that the introduction of democratic government on the basis of adult suffrage will ..... promote well-being ....."
- (a) Who has the adult franchise in India? 2
- (b) In what age can people vote in India? 1
- (c) What right should all people get to vote? Why. 2
- Q.18 "We did not give him any real power but we have made his position one of authority and dignity. The constitution wants to create neither a real executive nor a mere figurehead, but a head that neither Reigns nor governs. It wants to create a great figurehead."
- (a) "The office of president is effective and dignified". Why? 2
- (b) What do you mean by constitutional figurehead? 2
- (c) Is the position of president of India only a rubberstamp? 1

Q.19 Study cartoon given below and answer the following Questions :

- (i) Why are leaders afraid of the Election Commission? 1
- (ii) Is this good for democracy? Why? 2
- (iii) What is the role of Election Commission in Election? 2

Q.20 See the picture given below and answer the following questions:



- (a) Justify the message of picture.
- (b) What do these picture justify?
- (c) What are the reasons for such a justification?

Q.21 in the given political map of India, five States are marked as (A), (B), (C), (D), and (E). Identify them on the basis of the information given below.

- (a) state related to Anwar ali case (Article 14)
- (b) State related to Dr. M. Ismail Faroqui (Ayodaya Case)
- (c) State related Manipal Minority Right case (Article 30)
- (d) State related to Supreme Court.
- (e) State related to National Human rights commission office.

Q.22 What is political theory? Discuss the nature and scope of political theory.

OR

Do you think studying political theory is like studying mathematics? Give reasons for your answer.

Q.23 Describe the freedoms guaranteed by Rights to freedom. When can they be suspended?

OR

What are the rights guaranteed by Right to Equality? What are the exceptions to it?

Q.24 What is a constitution? What are the functions of a constitution?

OR

What are the factors making the Indian constitution effective? Explain.

Q.25 How is Prime Minister the real executive? Elaborate this in relation to the controversy on the relationship with Indian President.

OR

Describe the discretionary powers and position of the Indian President.

Q.26 Describe the composition, function and role of election commission in India?

OR

Describe the various modes of ensuring free and fair election in India?

Q.27 What are the various forms of inequality? Elucidate.

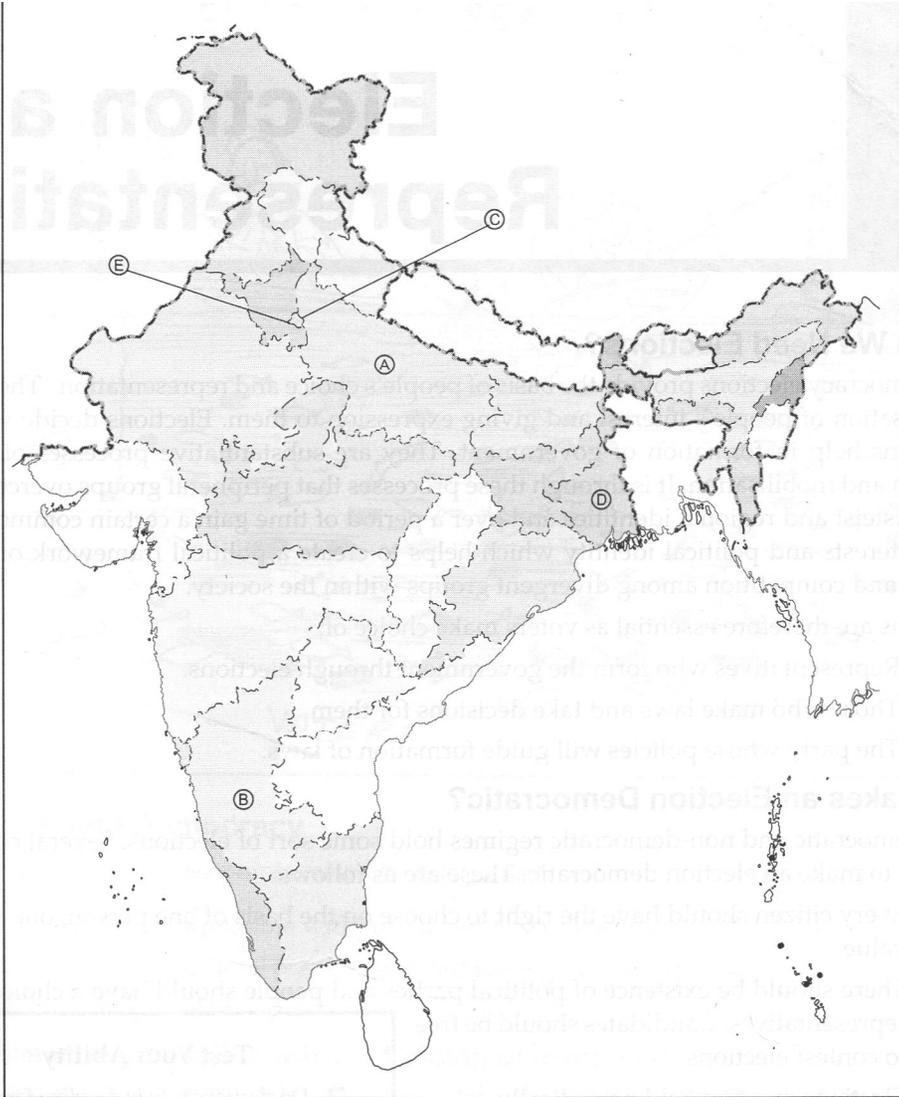
OR

What is social justice? How far has it been implemented in India?

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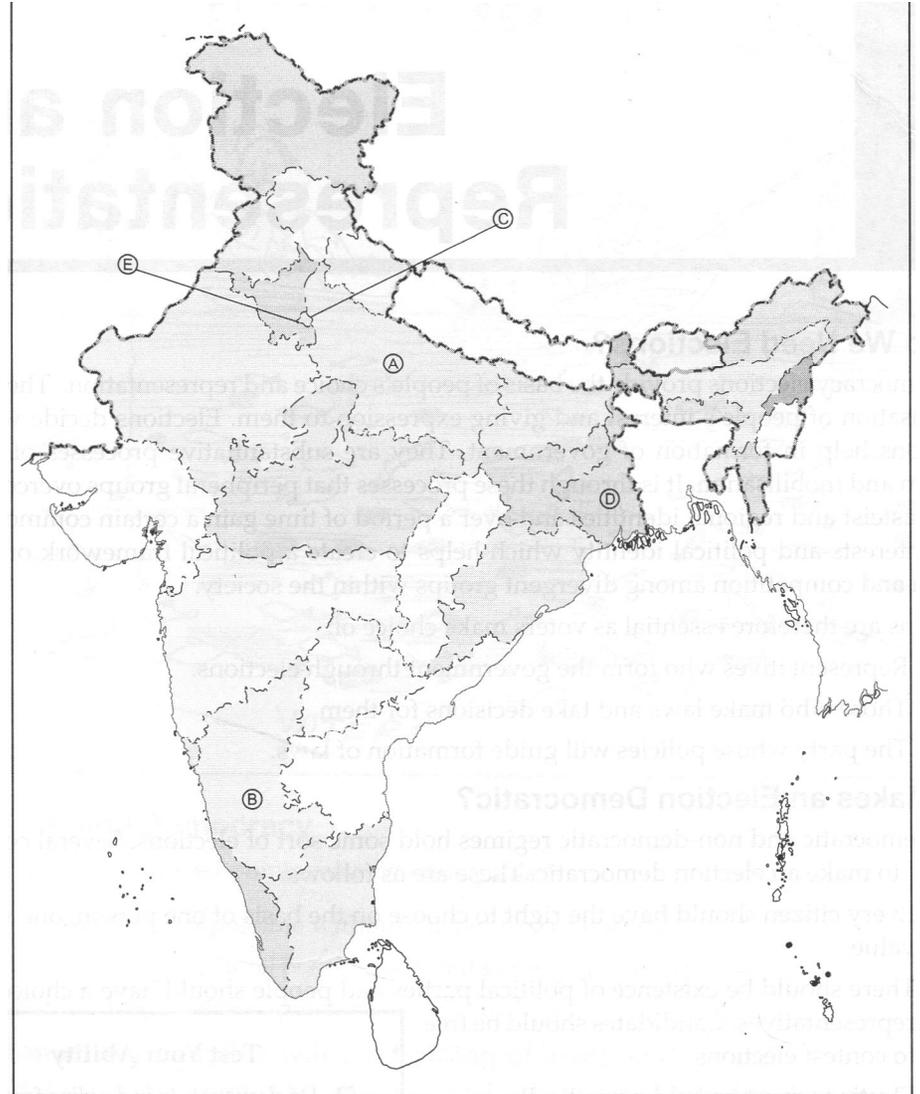
Q. 21

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



Q. 21

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



Roll. No.  Code No.11/Fine Arts/NLCS/9

***Half yearly Examination 2018 – 1***

**Time: 1:30 Hrs. M. M. 40**

**Note: Each Question Carry 5 Marks.**

- Q.1 Explain the rock painting “A Roaring Animal of Bhimketka”. 5
- Q.2 Describe the historical as well as artistic aspects of the idol “Dancing Girl”. 5
- Q.3 What characteristics are available in the idol “Male Torso, Harappa”? 5
- Q.4 What are the differences between Gandhar style of Art and Mathura style of Art? 5
- Q.5 Explain the difference between Mathura Buddha and Sarnath Buddha. 5
- Q.6 “Yakshini of Didarganj is Masterpiece”. Do you agree? Justify your views. 5
- Q.7 What is Mara Vijay? Describe the compositional arrangement of this relief. 5
- Q.8 Describe the painting “ Padamapani Bodhisattva.5

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Roll. No. Code No.11/Fine Arts/NLCS/9

***Half yearly Examination 2018 – 1***

**Time: 1:30 Hrs. M. M. 40**

**Note: Each Question Carry 5 Marks.**

- Q.1 Explain the rock painting “A Roaring Animal of Bhimketka”. 5
- Q.2 Describe the historical as well as artistic aspects of the idol “Dancing Girl”. 5
- Q.3 What characteristics are available in the idol “Male Torso, Harappa”? 5
- Q.4 What are the differences between Gandhar style of Art and Mathura style of Art? 5
- Q.5 Explain the difference between Mathura Buddha and Sarnath Buddha. 5
- Q.6 “Yakshini of Didarganj is Masterpiece”. Do you agree? Justify your views. 5
- Q.7 What is Mara Vijay? Describe the compositional arrangement of this relief. 5
- Q.8 Describe the painting “ Padamapani Bodhisattva.5

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Roll. No.  Code No.12/Fine Arts/NLCS/

### ***Half yearly Examination 2018 – 19***

**Time: 1:30 Hrs. M. M. 40**

**Note: Each Question Carry 5 Marks.**

Q.1 Why do you like or dislike the paintings of the Mughal or Deccani School of Miniature Painting included in you course of study? Justify your answer in detail with suitable examples. 5

Q.2 Evaluate the aesthetic grandeur of any of the following miniature paintings duly based on the aesthetic parameters : 5

- (i) Radha (Bani-Thani ) (Rajasthani School).
- (ii) Krishna with Gopies. (Pahari School)

Q.3 Identify any relevant painting included in your course of study comprising of the following features and explain them in that painting accordingly. 5

The Mughal School of Miniature painting was secular, in which Hindu Gods-Goddesses and Saints were also depicted.

**OR**

The tall and slender female figures were rendered with fine and rhythmic lines in the Deccani School of Miniature painting.

Q.4 Mention the title of the painting done by each of the following painters of the Bengal School included in your course of study. 5

- (i) Abanindranath Tagore
- (ii) Nandlal Bose

Q.5 Mention the names of any three painters of the Rajasthani School of Miniature Painting and any two of the Pahari School of Miniature Painting included in your course of study. 5

Q.6 Write short note on the “Journey’s End”? 5

Q.7 Write short note on the “Tiller of the Soil”. 5

Q.8 Write a short note on the one of them. 5

- (i) Ras-Lila
- (ii) Meghdoot

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