

Half Yearly Examination 2019 – 2020

Time: 3:00 Hrs.

M. M. 80

SECTION (A) READING

General Instructions :

Section – A Reading	20
Section – B Writing & Grammar	30
Section – C Literature	30

Q.1 Read the following passage carefully:

You are endowed with certain naughtiness as a child. Keep it alive Humour will grease all tough situations. One who has humour can sail through any conflict. Humour is the butter that saves you from humiliation. If you refuse to be humiliated, you become invincible. Humour brings everyone together, while humiliation tears them apart. In a society torn with humiliation and insult, Humour is like a breath of fresh air.

Humour should be coupled with care and concern. Humour can keep the spirit high, yet if overdone it leaves a bad taste. Humour without wisdom is shallow. Humour without sensitivity is satise –it comes back to you with nose problems. The wise use humour to bring wisdom and to lighten situations. The intelligent use humour as a shield against humiliation. The cruel use humour as a sword to insult others. The irresponsible use humour to escape from responsibility. And fools take humour too seriously!

How does one cultivate a sense of Humour? Humour is not just words, it is the lightness of your being. You do not have to read and repeat jokes. Humour, can be cultivated by taking life not too seriously (because you will never come out of it alive), having a sense of belongingness with everybody, including those who are not friendly, practicing Yoga and meditation, having unshakable faith in the Divine and in the laws of Karma and being in the company of those who live in knowledge and are humorous with a willingness to be a down.

1.1 Select the most suitable option :

1×2=2

- (a) According to the passage, a humorous person is –
 (i) confident (ii) cynical (iii) cheerful and faithful (iv) disappointed
- (b) Humour can be cultivated by –
 (i) Having a sense of belonging with everybody
 (ii) practicing yoga and meditation
 (iii) by having unshakable faith in the divine
 (iv) all the above

1.2 Identify the words from the passage to complete the blanks –

1×3=3

- (i) Humour if overdone, leaves a bad -----.
- (ii) The cruel use humour as a sword to ----- others.
- (iii) Humour brings everyone ----- .

1.3 Write 'True' OR 'False' :-

1×2=2

- (i) Humour without wisdom is shallow ----- .
- (ii) Humour is taken lightly by fools.

1.4 Identify the word from the passage that is opposite in meaning to the word 'weak' (para1)1

Q.2. Read the following passage carefully:**12**

The “little Tramp” the unforgettable character Charlie Chaplin invented, was born purely by accident in 1915. While rushing to a film shoot in California, he grabbed clothes other people had left behind in the changing room. And when he emerged, he found he had created a personality everybody loved. A little guy in a bowler hat, a close fitting jacket, a cane, outsize shoes and a brush like moustache!

Before long, Charlie found himself a star. That puzzled him, for he saw himself essentially as a shy British Music Hall Comedian. The U.S. acknowledged him as its king of silent film comedy. Soon, so did crowds all over the World. But life was not always a laugh for Charles Spencer Chaplin. Both his parents were Music Hall artists who separated when Charlie was very young. His childhood was very sad, for his mother never earned enough to look after Charlie and his older brother Sydney. Sometimes, Charlie had to sleep on the streets and forage food in the garbage. Charlie took his first bow on stage when his mother made her last appearance. It happened when her voice broke during a song. Her son stepped on stage and sang a popular song. That’s when a star was born. Through all these years of success, Charlie never forgot his troubled childhood. It made him recall a Christmas when he was denied two oranges and his bag of sweets for breaking a rule at the orphanage he went to after his mother’s death. It would have broken his heart, if the other children had not offered him a share of theirs. Spontaneously, the adult Chaplin gifted the orphanage with a motion picture machine and insisted that each child should have as many oranges and sweets as they pleased.

2.1 On the basis of your reading of the passage answer the following Questions : 2×4=8

- (a) What led to creation of the character named “little tramp”?
- (b) How was Charlie’s childhood?
- (c) How did Charlie perceive himself?
- (d) When did Charlie take his first bow on stage and how did it happen?

2.2 Choose the right option : 1×4=4

- (a) The character Charlie Chaplin was invented by –
(i) ‘Little Trump’ (ii) ‘Little Chap’ (iii) ‘Little Tramp’ (iv) ‘Little Tram’
- (b) After his mother’s death, Charlie was sent to –
(i) an orphanage (ii) a hostel (iii) a reformatory (iv) a psychiatrist

2.3 Fill in the right word from the passage.

Charlie Chaplin was referred to as the ----- of ----- film comedy.

2.4 Which word in the passage means ‘to search for food’?**SECTION – B (WRITING & GRAMMAR)**

- Q.3** Write a letter to the editor of a newspaper against the use of unfair means by students in examinations. Your name is Pankaj Walia and you live at 22, Model Town, Jalandhar. (100-150 words) **8**

OR

You are Tanu Arora. You are a student who is worried about the unavailability of some specific course books in the market. Write a letter to a book seller placing an order of the literature books you need. (100-150 words)

Q.4 Write a short story in about 150-200 words with the following set of the clues given below. Give a suitable title to the story. **10**

Grace was the daughter of the keeper of the light house, upon the fern Islands. One Sunny morning, she was woken up by the cries of people. She should not know the cause but she saw a broken shop upon one of the rocks, She awoke her father and----- .

OR

I anxiously waited for the school to begin. I was very excited to put my new plan into practice; to bring about peace and order in the class, to make classroom teaching interesting and win over my pupils. But suddenly ----- .

Q.5 There is an error in each line. Write the incorrect word and the correction in the space provided : **1/2x8=4**

	Error	Correction
Flamingos flock in Kutch every year.	-----	-----
It come there from various parts of the	-----	-----
world a year to breed. Flamingo city	-----	-----
is a island situated in the middle of the	-----	-----
Rann of Kutch, Known to the biggest	-----	-----
breeding ground for Flamingos, and today	-----	-----
it is strewn in bodies of hundreds of chicks.	-----	-----
The parents have fled the island due to lack	-----	-----
of food, plankton, algae an small fish what	-----	-----
are food for the flamingos.	-----	-----

Q.6 Look at the words and phrases given below. Rearrange them to form meaningful sentences - **1x4=4**

- (a) Nothing / courtesy / but / costs / everything / buys
- (b) man / and / to a / much is / given / who / courteously / talks politely.
- (c) And 'please' / words like / wonders with / do / their magical / 'thank-you' / power / small
- (d) Healthy person / germs / a / carry / may / of / in / body / typhoid / his / cholera / dysentery / etc.

Q.7 Read the following conversation & complete the passage given below : **1x4=4**

Nathen : I could not call my English tutor.
 Mother : Have you cancelled today's class?
 Nathen : His phone is dead and these is not other way to contact him.
 Mother : Okay! There is nothing else that we can do.

Nathan told his mother that (a) -----
 Mother asked him whether (b) -----
 Nathan replied that (c) ----- way to contact him.
 Mother sighed and said (d) -----

SECTION-C (LITERATURE)

Q.8 Read the extract & answer the questions below: **1x4=4**

“But he’s locked in a concrete cell,
 His strength behind bars,
 Stalking the length of his cage,
 Ignoring visitors.”

- (i) Who was locked “him” in the concrete cell?
- (ii) What does the expression ‘stalking the length of his cage imply?
- (iii) Why was the tiger ignoring the visitors?
- (iv) What has gone wrong with the strength of the tiger?

OR

“What is the boy now, who has lost his ball
What, what is he to do? I saw it go
Merrily bouncing down the street, and then
Merrily over there it is in the water!
No use to say, ‘O there are other balls;

- (i) What has happened to the boy?
- (ii) Why does the poet say ‘no use to say ‘O there are other balls.
- (iii) What according to you would the boy do?
- (iv) Which one of the following is not the synonym of merrily.
(a) festively (b) solemnly (c) mirthfully (d) joyously

Q.9 Short type questions (30-40 words) :

2×5=10

- (a) Describe the magnificent views of the tea estate with reference to the lesson “Tea from Assam”?
- (b) Why did, Maddie have sleepless nights?
- (c) Describe Anne’s love for her grandmother?
- (d) How would you assess Griffin as Scientist?
- (e) Mention any two of Ebright’s contributions to the World of Science.

Q.10 Long type questions (100-120 words) :

8

Comment on the significance of freedom for human beings and how it is important for the growth of civilization and humanism as described in the lesson ‘Nelson Mandela Long walk to freedom’.

OR

Fear and lack of confidence prevent one from learning new things. Do you agree? How did these traits of the young seagull make him a coward? How did he overcome these short comings?

Q.11 Long type questions in 100-120 words :

8

The lesson “A thief’s story” shows Hari Singh’s journey from a thief to an honest man who value friendship and other human values. Do you think it was Anil’s selfless friendship that he Hari to redeem himself? Give reasons in support of your answer.

OR

Write a character sketch of Mrs. Loisel.

अर्द्ध वार्षिक परीक्षा 2019–2020

समय: 3:00 घंटा

पूर्णांक 80

भाग - अ

प्र.1 निम्नलिखित अपठित गद्यांश को पढ़कर नीचे लिखे प्रश्नों के उत्तर लिखें

सुबुद्ध वक्ता अपार जनसमूह का मन मोह लेता है, मित्रों के बीच सम्मान और प्रेम का केन्द्र बिन्दु बन जाता है। बोलने का विवेक, बोलने की कला और पटुता व्यक्ति की शोभा है, उसका आकर्षण है। जो लोग अपनी बात को राई का पहाड़ बना कर उपस्थित करते हैं, वे एक और जहाँ सुनने वाले के धैर्य की परीक्षा लिया करते हैं, वही अपना और दूसरे का समय भी अकारण नष्ट किया करते हैं। विषय से हट कर बोलने वालों से, अपनी बात को अकारण खींचते चले जाने वालों से तथा ऐसे मुहावरों और कहावतों का प्रयोग करने वालों से जो उस प्रसंग में ठीक ही नहीं बैठ रहे हो, लोग ऊब जाते हैं। वाणी का अनुशासन, वाणी का संयम और संतुलन तथा वाणी की मिठास ऐसी शक्ति है जो हर कठिन स्थिति में हमारे अनुकूल ही रहती है, जो मरने के बाद भी लोगों की स्मृतियों में हमें अमर बनाए रहती है। हाँ, बहुत कम बोलना या सदैव मौन होकर बैठे रहना भी बुरा है। यह हमारी प्रतिभा और तेज को कुंद कर देता है। अतएव कम बोलो, सार्थक और हितकर बोलो। यही वाणी का तप है।

1. व्यक्ति की शोभा और आकर्षण किसे बनाया है? 2
2. कैसे व्यक्तियों से लोग ऊब जाते हैं? 2
3. 'वाणी का तप' किसे कहा गया है? 2
4. बहुत कम बोलना भी अच्छा क्यों नहीं है? 1
5. 'राई का पहाड़ बनाना' मुहावरे का अर्थ लिखिए। 1

प्र.2 निम्नलिखित पद्यांश को पढ़कर नीचे लिखे प्रश्नों के उत्तर लिखें

हिरण के बिन जंगल सूना

हिरणी जैसा दौड़े कौन?

पर भूखे बाघों के आगे

अपनी हिरणी छोड़े कौन?

बिन मछली के नदिया सूनी

पर हिम्मत दिखलाए कौन?

मगरमच्छ से भरी नदी में

अपनी मछली लाए कौन?

गैया बिन वृंदावन सूना

गौ बिन वंशी बजाए कौन?

पर बूचड़खानों के भय से

अपनी गैया लाए कौन?

बिन कुलवधुओं के कुल सूना

घर-आँगन महकाए कौन?

पर अंधों के राजमहल में

द्रुपदसुता को लाए कौन?

1. हिरणी किसकी प्रतीक है? स्पष्ट कीजिए। 2
2. मछली के माध्यम से कवि ने किस समस्या की ओर ध्यान आकृष्ट किया? 2
3. भारत में गायों की दुर्दशा का क्या कारण है? 1
4. 'द्रुपदसुता' किसके लिए प्रयुक्त हुआ है? 1
5. बिन कुल वधुओं घर आँगन महकाए कौन? पंक्ति में किस समस्या का वर्णन किया है? 1

भाग-ब

- प्र.3 निर्देशानुसार किन्ही तीन वाक्यों को परिवर्तित कीजिए। 3
1. छात्र परिश्रम करने से जीवन में सफल होते हैं। (संयुक्त वाक्य)
 2. तुम बस रूकने के स्थान पर चले जाओ। (मिश्र वाक्य)
 3. एक धमाका हुआ और चारों ओर चीख-पुकार मच गई। (सरल वाक्य)
 4. दृढ़ निश्चयी मनुष्य पीछे नहीं हटता। (प्रकार बताइये)
- प्र.4 निर्देशानुसार किन्ही चार के उत्तर दीजिए। 4
1. किसान सिंचाई करते हैं। (कर्म वाच्य)
 2. बच्चे दौड़े। (भाव वाच्य)
 3. अब पढ़ा जाए। (कर्तृ वाच्य)
 4. चलो, बगीचे में टहला जाए। (प्रकार बताइये)
 5. चलिए, आज ताजमहल देखें। (प्रकार बताइये)
- प्र.5 किन्ही चार रेखांकित पदों का परिचय दीजिए- 4
1. श्रेष्ठ लोग मितभाषी होते हैं।
 2. वह नवीं कक्षा का छात्र है।
 3. पुरुषार्थ के बिना जीवन असंभव है।
 4. चीता तेज दौड़ता है।
 5. शिक्षक ने छात्र से पाठ पढ़वाया।
- प्र.6 निम्न प्रश्नों के उत्तर दीजिए- 4
1. श्रृंगार अथवा रौद्र रस का उदाहरण लिखिए।
 2. निम्न में से किन्ही दो के स्थाई भाव लिखिए-
(क) वीभत्स (ख) शांत (ग) भक्ति
 3. उत्साह तथा बालरति किसके स्थायी भाव हैं?
 4. सोभित कर नवनीत लिए
घुटुरूनु चलत रेनु तनु मंडित मुख दधि-लेप किए।
अथवा
अन्न परायो पाइकै खाओ पेट अघाइ।
देह मिलै फिर फिर इहौ अन्न परायौ नाइ।।
पंक्तियों में प्रयुक्त रस बताइए।

भाग-स

प्र.7 निम्नलिखित पठित गद्यांश को पढ़कर नीचे लिखे प्रश्नों के उत्तर लिखों
पूरी बात तो पता नहीं, पर लगता है कि देश के अच्छे मूर्तिकारों को जानकारी नहीं होने और अच्छी मूर्ति की लागत अनुमान और उपलब्ध बजट से कहीं बहुत ज्यादा होने के कारण काफी समय ऊहापोह और चिट्ठी-पत्री में बरबाद हुआ होगा और बोर्ड की शासनावधि समाप्त होने की घड़ियों में किसी स्थानीय कलाकार को ही अवसर देने का निर्णय किया होगा और अंत में कस्बे के इकलौते हाई स्कूल के इकलौते ड्राइंग मास्टर मान लीजिए मोतीलाल जी को ही यह काम सौंप दिया होगा, जो महीने-भर में मूर्ति बनाकर 'पटक देने' का विश्वास दिला रहे थे।

1. ऊहापोह की स्थिति क्यों बनी रही? 2
2. मोतीलाल जी कौन थे और उन्हें क्या काम सौंपा गया? 2
3. मूर्ति बनाकर 'पटक देने' से क्या आशय है? 1

प्र.8 निम्न में से किन्हीं चार प्रश्नों के उत्तर संक्षेप में लिखिए- 4×2=8

1. बालगोबिन भगत अपने पुत्र को अधिक क्यों मानते थे?
2. लेखक ने सेकंड क्लास का टिकट क्यों खरीदा?
3. फादर रिश्ते बनाकर उनका निर्वाह कैसे करते थे?
4. डिब्बे में चढ़ते ही लेखक ने किसे देखा तथा उनका व्यवहार लेखक के प्रति कैसा था?
5. लेखक ने किसे विकलांग कहा है और क्यों? नेताजी का चश्मा पाठ के आधार पर स्पष्ट कीजिए।

प्र.9 निम्नलिखित पठित पद्यांश को पढ़कर नीचे लिखे प्रश्नों के उत्तर लिखों
अट नहीं रही है

आभा फागुन की तन
सट नहीं रही है।
कहीं साँस लेते हो,
घर-घर भर देते हो,
उड़ने को नभ में तुम
पर-पर कर देते हो,
आँख हटाता हूँ तो
हट नहीं रही है।

1. फागुन मास का वर्णन किस प्रकार किया है? 2
2. कवि के मन पर क्या प्रभाव पड रहा है? 2
3. पद्यांश में प्रयुक्त मुहावरा बताइए। 1

प्र.10 निम्न में से किन्हीं चार प्रश्नों के उत्तर संक्षेप में लिखिए 4×2=8

1. 'फसल' कविता में कवि ने मिट्टी का गुण धर्म किसे कहा है?
2. 'पिघलकर जल बन गया होगा कठिन पाषाण' कवि का क्या आशय है?
3. कवि नवजीवन वाले! पंक्ति के माध्यम से कवि का क्या आशय है?
4. गोपियों ने हारिल की लकड़ी किसे कहा है और क्यों?
5. सूरदास ने राजधर्म के क्या कर्तव्य बताए हैं?

प्र.11 “माता का आँचल” पाठ में बचपन की जो तस्वीर उभर कर आई है उसे स्पष्ट कीजिए।

4

अथवा

माता और पिता का स्नेह बच्चे के लिए विशेष आवश्यक है। माता का आँचल पाठ के आधार पर स्पष्ट कीजिए।

भाग-द

प्र.12 विद्यालय में लगाई जाने वाली आर्ट्स एंड क्राफ्ट की प्रदर्शनी का 25 से 50 शब्दों में आकर्षक विज्ञापन तैयार कीजिए।

अथवा

जल ही जीवन है विषय पर 25 से 50 शब्दों में आकर्षक विज्ञापन तैयार कीजिए।

5

प्र.13 आपके जन्मदिन पर माता-पिता ने आपको एक सुंदर हाथघड़ी का उपहार दिया। उसकी जीवन में उपयोगिता बताते हुए माता-पिता को एक धन्यवाद पत्र लिखो।

5

अथवा

आप एक सामाजिक कार्यकर्ता हैं तथा आप एक गरीब बस्ती के बच्चों को निःशुल्क शिक्षा देते हैं इस कार्य में शहर के विधायक ने भी आपको सहयोग दिया। उन्हें धन्यवाद ज्ञापित करते हुए पत्र लिखो।

प्र.14 निम्न में से किसी एक विषय पर 250 से 300 शब्दों में निबंध लिखिए-

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1. महानगरीय जीवन → विकास की अंधी दौड़, आपसी संबंधों में दूरियाँ, प्रदर्शन पूर्ण जीवन, असुरक्षा, उपसंहार
2. उत्सवों और पर्वों का बदलता स्वरूप → परंपराओं की अनदेखी, समय का अभाव, आधुनिक जीवन शैली, बाजार का बढ़ता प्रभाव, उपसंहार

Half Yearly Examination 2019 – 2020

Time: 3:00 Hrs.

M. M. 80

Note: Section A Question No. 1 to 20 carry One Mark only. Section – B Question No. 21 to 30 carry 3 Marks each. Section – C Question No. 31 to 36 carry 5 Marks each.

SECTION – A

- Q.1 The power of a lens is $-3.5D$. The lens is –
(a) Convex (b) Plano-convex (c) Concave (d) Plano-concave
- Q.2 Name one antioxidant.
- Q.3 What is the main function of enzyme amylase?
- Q.4 Focal length of plane mirror is –
(a) Infinity (b) Zero (c) Negative (d) None of these
- Q.5 $Cu + FeSO_4 \rightarrow$
Identify the product.
- Q.6 What is transpiration pull?
- Q.7 In optics an object which has higher refractive index is called –
(a) Optically rarer (b) Optically denser (c) Optical density (d) Refractive index
- Q.8 Name the component of baking powder.
- Q.9 What is difference between tropic and Nastic movement?
- Q.10 The least distance of distinct vision for a young adult with normal vision is –
(a) 25m (b) 20m (c) 25cm (d) 20cm
- Q.11 The food cans are coated with ----- .
- Q.12 In a flower which parts produce male and female gametes?
- Q.13 Which of the following color is least scattered by fog, dust or smoke?
(a) Yellow (b) violet (c) Blue (d) Red
- Q.14 A non metal A is an important constituent of our food and forms two oxides B & C. Oxide B is toxic whereas C causes global warming. Identify A, B & C.
- Q.15 In peas, a pure tall plant (TT) is crossed with short plant (tt) is the ratio of pure tall plants in F_2 generation.
- Q.16 Which instrument is used for measuring electric potential?
(a) Ammeter (b) Galvanometer (c) Voltmeter (d) potentiometer
- Q.17 Compound X & Aluminium are used to join railway tracks. Identify the compound.
- Q.18 Write the two surgical methods of male and female for contraception.
- Q.19 The resistance of conductor is directly proportional to –
(a) Area of cross-section (b) density (c) melting point (d) length
- Q.20 The pH of mouth on which tooth decay start.

SECTION – B

- Q.21 (i) Why do acids not show acidic behavior in the absence of water?
(ii) Why does an aqueous solution of an acid conduct electricity?
- Q.22 Describe Dihybrid cross (law of Independent Assortment) with example of yellow round and green wrinkled.
- Q.23 How many 176 ohm resistors (in parallel) are required to carry 5A on 220V line?
- Q.24 Oil & fat containing food items are flushed with Nitrogen. Why & how can it be prevented?
- Q.25 Describe all endocrine glands, their hormones their site and their functions.
- Q.26 How does refraction of light take place in atmosphere? Explain the reason why stars appear to twinkle?
- Q.27 (i) Why do ionic compounds have high melting point?
(ii) Write electron dot structure of oxygen & Magnesium.

OR

Explain the electrolytic refining of copper with diagram.

- Q.28 Explain the whole mechanism of Double Fertilization in flowering plants with the help of diagram.
Q.29 An object of size 7cm is placed at 27 cm in front of a concave mirror of focal length 18cm. At what distance from the mirror should a screen be placed so obtains a sharp image? Find size and nature of image.

OR

A 5cm tall object is placed on the principal axis of a convex lens of focal length 50cm at a distance of 40cm from it. Find nature position and size of the image.

- Q.30 What the different juices secreted by small intestine and what are their functions?

OR

Explain mechanism of Breathing with diagram.

SECTION – C

- Q.31 Give reason : 1+1+1+2

- (i) We feel burning sensation in the stomach when we over eat.
- (ii) The crystals of washing soda change to white powder on exposure to air.
- (iii) An aqueous solution of NaCl is neutral but an aqueous solution of Na_2CO_3 is basic.
- (iv) What is an olfactory indication? Name two such indication.

OR

A metal carbonate X reacting with an acid gives a gas which when passed through a solution Y gives the Carbonate back on the other hand, a gas G that is obtained at anode during electrolysis of brine is passed on dry Y. It gives a compound Z, used for disinfecting drinking water. Identify X, Y, G & Z.

- Q.32 State ohm's law. Write its mathematical expression. Define the factor on which resistance of conductor depends.

OR

Draw the image formation & write nature of image–

- (a) For concave mirror : (i) Object at C (ii) Object at F
(b) For convex lens : (i) Object between O and F (ii) Object between F and 2F
- Q.33 (a) On heating blue coloured powder of copper(II) nitrate in a boiling tube, copper oxide (black), oxygen gas and a brown gas X is formed.
(i) Write balanced chemical equation (ii) Identify brown gas X evolved
(iii) Identify type of reaction (iv) What could be the pH of aqueous solution of gas X.
(b) What is the difference between decomposition & displacement reaction.

OR

- (a) A brown substance "X" on heating in air forms a substance 'y'. When hydrogen gas is passed over heated 'y', it again changes back into 'x' .

- (i) Name the substance 'X' & 'Y'.
- (ii) Name the type of chemical reactions occur during both the change.
- (iii) Write chemical equations of the reactions.

(c) Explain Redox reaction with the help of example.

- Q.34 What are the different hormones secreted by the plant and what are their functions (Phytohormones)?

OR

What is Nastic movement and explain its all types.

- Q.35 A person is unable to see distinctly the words printed on a news paper. Name the defect of vision. Draw ray diagram to illustrate this defect? Write cause and give suitable correction with diagram?

OR

(a) Write the function of each of following –

- (i) Cornea (ii) Iris (iii) pupil (iv) Eye lens (v) ciliary muscle (v) Retina

(b) Draw a well labeled diagram of Human Eye.

- Q.36 How can you prove that different looking organism originated from common ancestor with example of wild cabbage?

OR

Explain male reproductive system with diagram.

Half Yearly Examination 2019 – 2020

Time: 3:00 Hrs.

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Section – A

Question No. 1 to 20 carry One mark each.

- Q.1 The HCF and LCM of the numbers is 9 and 459 respectively. If one number is 27, then the other number is:
(a) 153 (b) 150 (c) 459 (d) 135
- Q.2 Degree of the polynomial $2x^4 + 3x^3 - 5x^2 + 9x + 1$ is :
(a) 3 (b) 1 (c) 2 (d) 4
- Q.3 The pair of equation $x = a$ and $y = b$ graphically represents lines which are -
(a) Parallel (b) coincident (c) interacting at (a, b) (d) intersecting at (b, a)
- Q.4 $(x^2 + 1) - x^2 = 0$ has :
(a) Four real roots (b) two real roots (c) no real roots (d) one real root
- Q.5 If $\sin \alpha = \frac{1}{\sqrt{2}}$ and $\cos \beta = \frac{1}{\sqrt{2}}$, then $(\alpha + \beta)$ is :
(a) 90° (b) 45° (c) 60° (d) 30°
- Q.6 If $\sin \theta + 2\cos \theta = 1$ then $2\sin \theta - \cos \theta$ equals to :
(a) 0 (b) 3 (c) 4 (d) 2
- Q.7 $\cot A \cdot \tan A$ is:
(a) $\tan A$ (b) $\sec A$ (c) 1 (d) $\cot A$
- Q.8 If A and are acute angle & $\sin A = \cos B$ then value of $(A+B)$ is :
(a) 0° (b) 90° (c) 30° (d) 60°
- Q.9 If four sides of a Quadrilateral. ABCD are tangents to a circle then :
(a) $AC+AD=BD+CD$ (b) $AC+AD=BC+DB$ (c) $AB+DC=AC+BC$ (d) $AB+CD=BC+AD$
- Q.10 the length of tangent drawn from a point 8 cm away from the centre of a circle of radius 6cm is :
(a) 5 (b) 8 (c) 9 (d) None of these
- Q.11 In a right circular cone, the cross section made by a plane parallel to the base is a :
(a) Frustum of cone (b) circle (c) sphere (d) None of these
- Q.12 If volumes of two spheres are in the ratio 64 :27 then the ratio of their surface area is :
(a) 16 : 9 (b) 9 : 16 (c) 3 : 4 (d) None of these
- Q.13 The maximum volume of a cone that can be carved out of a solid hemisphere of radius 'r' is :
(a) $\frac{\pi r^3}{3}$ (b) $\frac{3\pi r^3}{7}$ (c) $\frac{4\pi r^3}{5}$ (d) None of these
- Q.14 IF the HCF of 65 and 117 is expressible in the for m of $65m - 117$. Then 'm' equals to :
(a) 2 (b) 4 (c) 1 (d) None of these
- Q.15 The abscissa of the point of intersection of the less than type and of the more than type cumulative frequency curves of a grouped data gives its :
(a) median (b) mean (c) mode (d) all of these
- Q.16 An event is very unlikely to happen. Its probability is closed to :
(a) 1 (b) 0.000001 (c) 0.1 (d) 0.01
- Q.17 The probability expressed as a percentage of a particular occurrence can never be :
(a) less than 100 (b) less than 0 (c) greater than 1 (d) anything but a whole number
- Q.18 If P (A) denotes the probability of an event A then
(a) $P(A) < 0$ (b) $P(A) > 1$ (c) $0 \leq P(A) \leq 1$ (d) $-1 < P(A) < 1$
- Q.19 Some one is asked to take a number from 1 to 100. The probability that it is a prime is :
(a) $\frac{1}{5}$ (b) $\frac{1}{4}$ (c) $\frac{6}{25}$ (d) None of these

Q.20 When a die is thrown, the probability of getting an odd number less than 3 its :

(a) $\frac{1}{8}$

(b) $\frac{1}{6}$

(c) $\frac{1}{3}$

(d) None of these

Section – B

Question No. 21 to 26 carry Two marks each.

Q.21 Find the probability of getting 53 Sunday in the year 2019.

Q.22 Show that 12^x cannot end with the digit 0 or 5 for any natural number x .

Q.23 Two tangent PQ and PR are drawn from an external point to a circle with centre O. Prove that QORP is a cyclic Quadrilateral.

Q.24 Find the angle of elevation of the sun when the shadow of a pole 'h' metre high is ' $\sqrt{3}$ ' h metre long.

Q.25 If $\tan A = \cot B$, prove that $A + B = 90^\circ$..

Q.26 If $2x + y = 23$ and $4x - y = 19$ then find the value of $5y - 2x$.

Section – C

Question No. 27 to 34 carry Three marks each.

Q.27 prove that $\sqrt{\frac{1+\cos\theta}{1-\cos\theta}} + \sqrt{\frac{1-\cos\theta}{1+\cos\theta}} = 2\operatorname{cosec}\theta$.

Q.28 Prove that $\sqrt{5}$ is irrational.

OR

Prove that $\sqrt{7}$ is irrational.

Q.29 Draw the graphs of $2x + y = 6$ and $2x - y + 2 = 0$ shade the region bounded by these lines and x axis. Find the area of shaded region.

OR

Solve graphically : $\begin{matrix} x - y = 1 \\ 2x + y = 8 \end{matrix}$ Shade the area bounded by these two lines and y axis. Determine the area.

Q.30 A train travels a distance of 300 km at constant speed. If speed of train is increased by 5km an hour. The journey would have taken 2 hrs less. Find the original speed of the train.

OR

Derive Quadratic formula.

Q.31 Prove that length of tangents are drawn from external point to a circle are equal in length.

OR

Prove that the angle between two tangents drawn from an external point to a circle is supplementary to the angle subtended by the line segment joining the points of contact at the center.

Q.32 A Jar contain 24 marbles some are green and other are blue. If a marble is drawn at random from the Jar the probability that it is green is $\frac{2}{3}$. Find the number of blue marble in the Jar.

OR

1000 tickets of a lottery were sold and there are 5 prizes on these tickets. If Saket has purchased one lottery ticket, what is the probability of winning prize?

Q.33 The angles of elevation of the top of a tower from two points at distance 'a' and 'b' metres from the base and in the same straight line with it are complementary. Prove that height of tower is \sqrt{ab} metres.

OR

A tree is broken by the wind the top struck the ground at an angle of 30° and at a distance of 30metres from the root. Find the height of tree.

Q.34 A 20m deep wall with diameter 7m is dug and the earth from digging is evenly spread out to form a platform 22m by 14m. Find the height of platform.

OR

A cylindrical pipe has inner diameter of 7cm and water flows through it at 192.5 litres per minute. Find the rate of water flow in kilometer per hour.

Section – D

Question No. 35 to 40 carry Four marks each.

Q.35 The interior of a building is in the form of cylinder of diameter 4.3m and height 3.8m, surmounted by a cone whose vertical angle is a right angle. Find the area of surface and the volume of building.

OR

The height of a right circular cone is trisected by two planes drawn parallel to the base. Show that the volumes of the three positions starting from the top are in the ratio 1 : 7 : 19.

Q.36 What must be subtracted from $2x^4 - 11x^3 + 29x^2 - 40x + 29$, so that the resulting polynomial is exactly divisible by $x^2 - 3x + 4$?

OR

If the polynomial $6x^4 + 8x^3 + 17x^2 + 21x + 7$ is divided by another polynomial $3x^2 + 4x + 1$ the remainder comes out to be $ax + b$. Find a & b .

Q.37 Change the following distribution to a “more than type” distribution and then draw its ogive.

Class	50-55	55-60	60-65	65-70	70-75	75-80
Frequency	2	8	12	24	38	16

OR

Find the missing frequency f for the following data if the mode for the following data is 39.

Class	Frequency
5-15	2
15-25	3
25-35	f
35-45	7
45-55	4
55-65	2
65-75	2

Q.38 If $A+B=90^\circ$ Prove that : $\sqrt{\frac{\tan A \tan B + \tan A \cot B}{\sin A \sec B} - \frac{\sin^2 B}{\cos^2 A}} = \tan A$.

OR

If $\sec \theta + \tan \theta = P$. Find $\sin \theta$.

Q.39 The angle of elevation of Jet plane from a point A on the ground is 60° . After a flight of 30 seconds the angle of elevation changes to 30° . If the Jet plane is flying at a constant height of $3600\sqrt{3}$ m. Find the speed of Jet plane.

OR

The angle of elevation of a cloud from a point 60m above a lake is 30° and the angle of depression of the reflection of cloud in the lake is 60° . Find the height of cloud.

Q.40 Solve $a(x+y) + b(x-y) = a^2 - ab + b^2$

For x & y $a(x+y) - b(x-y) = a^2 + ab + b^2$

OR

Solve for x & y by cross multiplication method
$$\begin{aligned} 8x + 5y &= 9 \\ 3x + 2y &= 4 \end{aligned}$$

Half Yearly Examination 2019 – 2020

Time: 3:00 Hrs.**M. M. 80**

Q.1 Multiple Choice Questions.

 $\frac{1}{2} \times 10 = 5$

(i) Which of the following is not an ISP in India?

- a. BSNL b. IETF c. VSNL d. Infosys

(ii) The rate of data transfer in case of internet connections is called.....

- a. Backbone b. Gateway c. Bandwidth d. Server

(iii) Which technology converts electrical signals into light signals for connecting to internet?

- a. Dial-up connection b. Digital subscriber line
-
- c. Cable d. Fiber optic cable

(iv) The page that appears every time when the web browser is opened or started is.....

- a. Web page b. First page c. Home page d. All of these

(v) Which protocol is used to send messages from a mail client to mail server?

- a. FTP b. IP c. SMTP d. IMAP

(vi) What is the process of receiving data from a remote machine to machine called?

- a. Uploading b. Downloading c. Reloading d. Indexing

(vii) A..... column allows you to select a value from another table or from a list of values.

- a. Lookup b. Freeze c. Navigation

(viii) Which property is used to add Tag into a field?

- a. Smart tag b. Validation text c. Validation rule

(ix) Which query is used to retrieve data from one or more tables and display the record set in a datasheet.

- a. Select b. Update c. Cross d. None of these

(x) Which key defines a relationship between two tables?

- a. Foreign key b. Primary key c. Secondary key d. None of these

Q.2 Fill in the blanks.

 $\frac{1}{2} \times 10 = 5$

(i) The domain extension for educational is.....

(ii) All the domain extensions are monitored and regulated by.....

(iii) Is simply used for the purpose of file transfer over the internet.

(iv) is an application of E-commerce that allows purchasing of goods from any part of the world.

(v) The database management system from MS Office suite is called.....

(vi) Features in DBMS that allows multiple transactions to access and modify shared data at the same time, without violating the data integrity is called.....

(vii) A table is a database object which consist of and.....

(viii) property allow you to display data in a format different from the way you actually store your data.

(ix) MS Access provides you..... Ways to create a query.

(x) To delete a relationship, click the line connects the tables and press the.....key.

Q.3 Give Full forms

1x5=5

- (i) TCP (ii) ISP (iii) IIS (iv) ADSL (v) SMTP

- Q.4 Define the following 1x5=5
- (i) Gateway (ii) Blog (iii) Data Redundancy
(iv) Validation text (v) Primary key

- Q.5 Answer the following questions brief(Any 5) 2x5=10
- (i) Explain the term HTTP. Why is it required?
(ii) What is URL? Discuss its components.
(iii) What do you understand by the term webcrawler?
(iv) What is difference between data storing and data sorting?
(v) What are Data Types? Explain any two of them.
(vi) What do you understand by sorting? How can you sort data in Access?
(vii) What is a query?
(viii) Differentiate between Foreign key and Primary key.

- Q.6 Answer the following questions detail(Any 3) 3x3=9
- (i) Discuss the client – server architecture of internet.
(ii) How does FTP work?
(iii) What is the difference between IMAP and POP?
(iv) Differentiate between Flat file database and Relational database. Give examples for both.
(v) What is difference between Freezing and Hiding columns?

- Q.7 Application based question
- (i) Pronita is a programmer in an institution and is asked to handle the records containing personal information of the teachers teaching in the institution. Suggest five fieldnames, which you think must be present in the table calledTeacherinfo. 3
- (ii) Look at the table called “Item” given below and answer the question.

ItemID	Item Name	ItemStock	ItemDOP	Quantity Purchased
--------	-----------	-----------	---------	--------------------

- (a) Suggest the data types of all the fields. 3
- (b) Which two field can act as the Primary key from the above table? 2
- (iii) Identify the column(s) out of given three, which should not be present in each of the following tables: 1x3=3

(a) Table.1 StockItem No.

Item No.	Date of Birth	Item Quantity
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(b) Table.2 Book

Adm No.	Price	Accssn No.
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(c) Table.3 Firmotire

Fno.	Design Cat	Phone Number
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Practical + Viva

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Half Yearly Examination 2019 – 2020

Time: 3:00 Hrs.

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SECTION-A

MCQ'S:- There are total 20 questions. Each question carry 1 mark.

- Q.1 Write the correct answer of the following questions- 20×1=20
- (i) Who invented the steam engine?
(a) Richard Arkwrite (b) James Watt (c) James Hargreaves (d) None of these
 - (ii) What Pre-colonial Port connected India to the Gulf countries and the Red sea Ports.
(a) Bombay (b) Surat (c) Hoogly (d) Masulipatnam
 - (iii) When was the first cotton mill established in Bombay?
(a) 1856 (b) 1854 (c) 1855 (d) 1857
 - (iv) Who said, "Printing is the ultimate gift of God and the greatest One."
(a) Charles Dickens (b) Martin Luthar (c) J.V.Schely (d) Mahatma Gandhi
 - (v) Who developed the first printing Press?
(a) Issac Newton (b) Johann Gutenberg (c) Marco Polo (d) Newcomen
 - (vi) Which of the following is the meaning of 'Biliotheque Bleue'?
(a) An author (b) Low Price small books
(c) Monuments (d) None of these
 - (vii) The Principle of majoritarianism lead to a civil war in –
(a) Sri Lanka (b) Belgium (c) India (d) France
 - (viii) When did SriLanka emerge as an Independent nation?
(a) 1948 (b) 1947 (c) 1950 (d) 1952
 - (ix) How many languages have been recognized as scheduled languages?
(a) 21 (b) 22 (c) 18 (d)20
 - (x) Name an Indian State which enjoys a special status.
(a) Delhi (b) Rajasthan (c) J & K (d) Madhy Pradesh
 - (xi) What is sex ratio of India?
(a) 930 (b) 960 (c) 940 (d) 990
 - (xii) In India, seats are reserved for women in the –
(a) Lok Sabha (b) State Legislative Assemblies
(c) Cabinets (d) Panchayati Raj bodies
 - (xiii) Development of a country can generally be determined by -
(a) Its per capta income (b) Its average literacy
(c) health status of its people (d) all of the above
 - (xiv) In which year the national Rural Employment Guarantee Act was implemented?
(a) 2004 (b) 2005 (c) 2006 (d) 2007
 - (xv) The sectors are classified into public and Private sector on the basis of ----- .
(a) Employment condition (b) Ownership of enterprises
(c) Number of workers employed in the enterprise (d) The nature of economic activity
 - (xvi) GDP is the sum total of the value of ----- goods produced during a particular year.
(a) all goods and services (b) all final good and services
(c) all intermediate goods and services (d) all intermediate and final goods and services
 - (xvii) Which of the areas in India possess maximum resources of fossil fuels and minerals :
(a) Plain (b) Plateaus (c) Mountains (d) None of these
 - (xviii) Which of these is also called regur soil –
(a) Alluvial soil (b) Black soil (c) Arid soil (d) Laterite soil
 - (xix) Which of the following is a leguminous crop?
(a) Rice (b) Gram (c) Pulses (d) Cotton
 - (xx) Which state of India is the largest producer of Rubber?
(a) Kerla (b) Karnataka (c) J & K (d) Rajasthan

SECTION-B

Question No. 2 to 9 each question carry 3 mark.

- Q.2 Give the climatic conditions for growing wheat and Maize in India. 3
OR
State the condition for growing sugarcane and tea with reference to temperature, rainfall and major producing states.
- Q.3 In what respects is the criterion used by UNDP for measuring development different from the one used by the World Bank? 3
- Q.4 Compare the employment conditions prevailing in organized and unorganized sectors. 3
OR
What is meant by 'Double coincidence of want's? How useful is money as a medium of Exchange? Explain.
- Q.5 Explain the impact of the first World War on Indian Industries. 3
- Q.6 What were the limitation of handwritten manuscripts in India? Explain. 3
OR
Write a short note on Gutenberg Printing Press.
- Q.7 Define power sharing. Explain two major forms of power sharing in modern democracies? 3
- Q.8 What is a Panchayati Raj? What is its importance? 3
OR
Distinguish between coming together Federation and holding together Federation.
- Q.9 Mention different aspects of life in which women are discriminated against or disadvantaged in India. 3
OR
What is meant by secular state? Mention any two constitutional provisions that make India a secular state.

SECTION-C

Answer in detail. Question No. 10 to 15 each question carry 5 marks.

- Q.10 Why is power sharing desirable? Give some suitable arguments. 5
OR
What is meant by Federalism? Write any four key feature of its.
- Q.11 "The Print Revolution had transformed the lives of people changing their relationship to information and knowledge". Analyze the statement. 5
OR
Define industrial revolution. How did Industrial revolution in England affect India's Economy?
- Q.12 Discuss land degradation and suggest the steps to be taken to control it to some extent. 5
OR
What is resource planning? Mention the steps which are involved in resource planning.
- Q.13 Differentiate between the commercial agriculture and the subsistence agriculture. 5
- Q.14 Why is the tertiary sector becoming so important in India? Give at least four reason. 5
OR
Distinguish between primary, secondary and tertiary sector.
- Q.15 What is the basic idea behind the SHGS for the poor? Explain in your own words. 5
OR
What is meant by Development? Write the characteristics of its with example.

SECTION-D

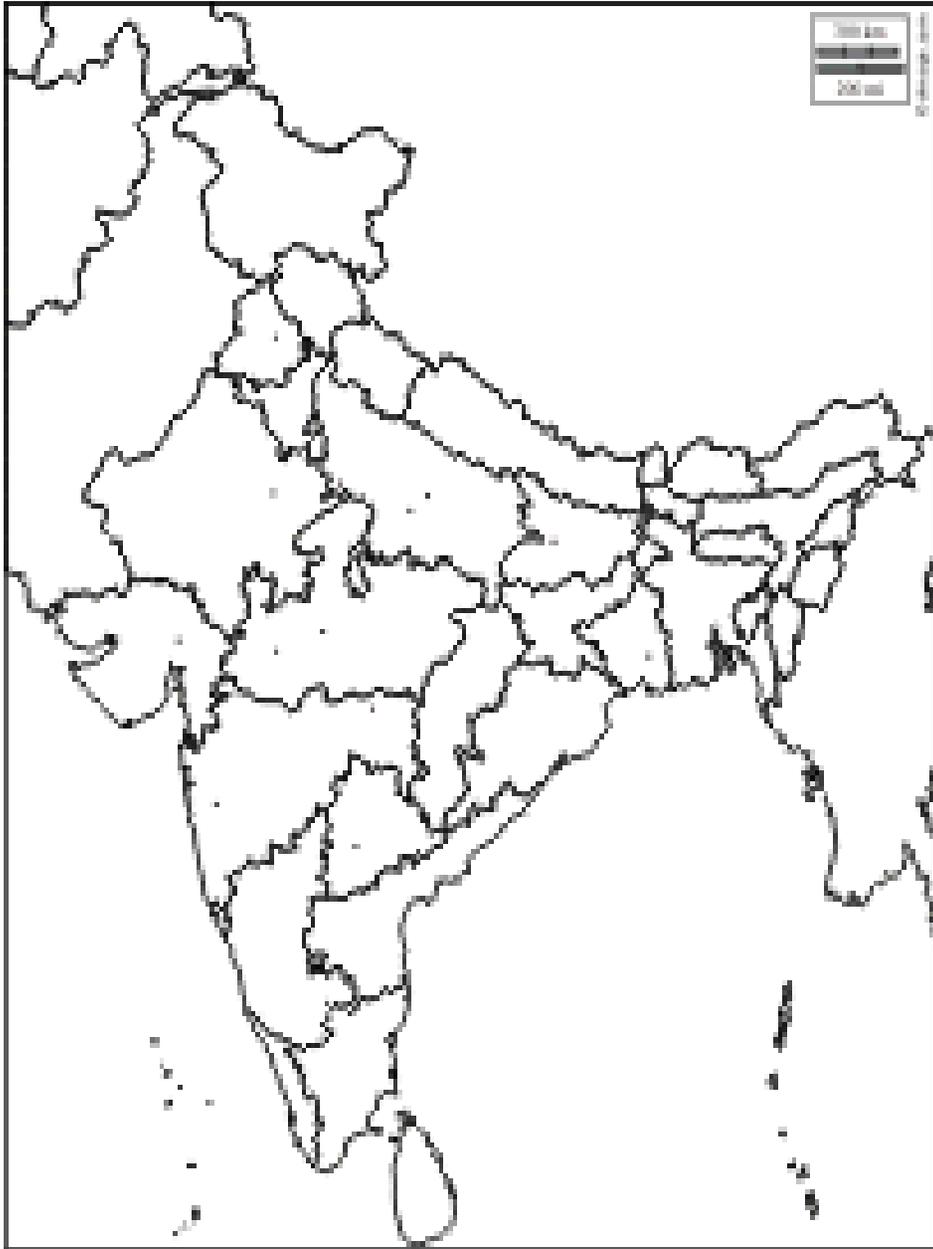
Map based questions:-

- Q.16 On the map of India locate and label the following ports – 6
1×3=3
(a) Surat (b) Hooghly (c) Machilipattanam
- (i) Largest producing state of Sugarcane 1
- (ii) Locate the major areas of Rice and wheat. 2

Roll No. _____

Class _____

Q. No. 16



Roll No. _____

Class _____

Q. No. 16

