



## GURU GOBIND SINGH PUBLIC SCHOOL, CHAS, BOKARO

Affiliated to CBSE, New Delhi

CLASS- XII

ASSIGNMENT

ENGLISH

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### READING

1. Read the passage given below.

1. "Who doesn't know how to cook rice? Cooking rice hardly takes time." said my father. So, I challenged myself. I switched from news to YouTube and typed, "How to cook rice?" I took one and a half cups of rice. Since I didn't have access to a rice cooker, I put the rice in a big pot. Firstly, the rice has to be washed to get rid of dust and starch. I thought I won't be able to drain the rice and that it will fall out of the pot. I observed the chef as I swirled the rice around and used my dexterous hands to drain it, not once, not twice, but three times. I looked down at the sink and saw less than 50 grains that made their way out of the pot. Suffice to say, I was up to the mark.

2. The video stated that the key to perfect rice is equal amounts of rice and water. I have heard that professionals don't need to measure everything; they just know what the right amount is. But as this was my first time in the kitchen, I decided to experiment by not measuring the water needed for boiling the rice. I wanted the rice to be firm when bitten, just like pasta. I don't enjoy the texture of mushy rice. It has to have that chutzpah; it has to resist my biting power just for a bit before disintegrating.

3. After what seemed like 10 minutes, all the water disappeared. I went in to give it a good stir. To my surprise, some of the rice got stuck to the pot. I tried to scrape it off but to no avail. At the same time, there was a burning smell coming from it. I quickly

turned the stove off. "What have you done to the kitchen?" shouted Mother, while coming towards the kitchen. I managed to ward her off.

4. Finally, when the time came to taste my creation, I was surprised! It wasn't bad at all. The rice had the desired consistency. Sure, a little more salt would've been better, but I just added that while eating. The experience was fairly rewarding and memorable. It taught me a new sense of respect for those who cook food on a regular basis at home or engage in gourmet creations professionally.

On the basis of your understanding of the above passage, answer the questions given below.

i. Father's question to the narrator, about knowing how to cook rice, was intended to

- a. criticize the narrator's lack of abilities.
- b. make the process sound simple.
- c. encourage the narrator to take up cooking.
- d. showcase his own expertise in cooking rice.

ii. "I switched from news to YouTube ..." Pick the option in which the meaning of 'switch(ed)' is NOT the same as it is in the passage.

- a. He switched on the radio to listen to the news while having dinner.
- b. "Forget these diet supplements and switch to yoga, if you want a true sense of well-being."
- c. Mom switched to reading fiction recently because she was bored with cook-books.
- d. The company will switch the trucks to other routes to bring down city pollution.

iii. Based on your understanding of the passage, choose the option that lists the correct sequence of the process.

- 1. Use water to wash the rice.
- 2. Repeat the process three times.
- 3. Drain the water off.
- 4. Put rice in a utensil.
- 5. Swirl the water in and around the rice.

- a. 4,2,1,3,5
- b. 1,3,2,5,4
- c. 4,1,5,3,2

d. 5,1,2,4,3

iv. The narrator says that he has dexterous hands. He would have had a problem had it been the opposite. NOT BEING dexterous means, being

a. uncomfortable.

b. clumsy.

c. unclear.

d. clueless.

v. Which option represents the correct ratio of water to rice for cooking 'perfect rice'?

a. 50% water: 50% rice

b. 70% water: 30%rice

c. 25% water: 75% rice

d. 45% water: 55% rice

vi. How did mother react to the burning smell?

a. She commented on it.

b. She brushed it aside.

c. She enquired about it .

d. She handled it .

vii. According to the passage, the fact that the narrator risked experimentation, on his maiden attempt in the kitchen, shows that he was

a. conscientious.

b. nervous.

c. presumptuous.

d. courteous.

viii. Pick the option showing the CORRECT use of the word 'chutzpah'.

a. It is the court's duty to dispense chutzpah to everyone irrespective of caste or creed.

b. The speaker may not have much of a stage presence, but you've got to admit she's got chutzpah.

c. I could crack the code easily which proved me to be a chutzpah and I was the only one who could do so.

d. After his father's demise, the daughter took over the family's chutzpah to save it from disaster.

ix. Pick the option that correctly states what DID NOT happen after the writer checked on the rice.

- a. Turning the stove off.
- b. Being taken aback at the condition of rice.
- c. Forgetting to scrape the stuck rice.
- d. Smelling the delicious aroma of cooked rice.

x. The narrator's creation was

- a. almost perfect to taste.
- b. way off from what he wanted.
- c. overly seasoned.
- d. quite distasteful.

xi. Pick the option that correctly lists the final feelings of the writer with reference to the cooking experience.

- 1. frustrating
- 2. amusing
- 3. satisfying
- 4. disillusioning
- 5. exacting
- 6. enlightening

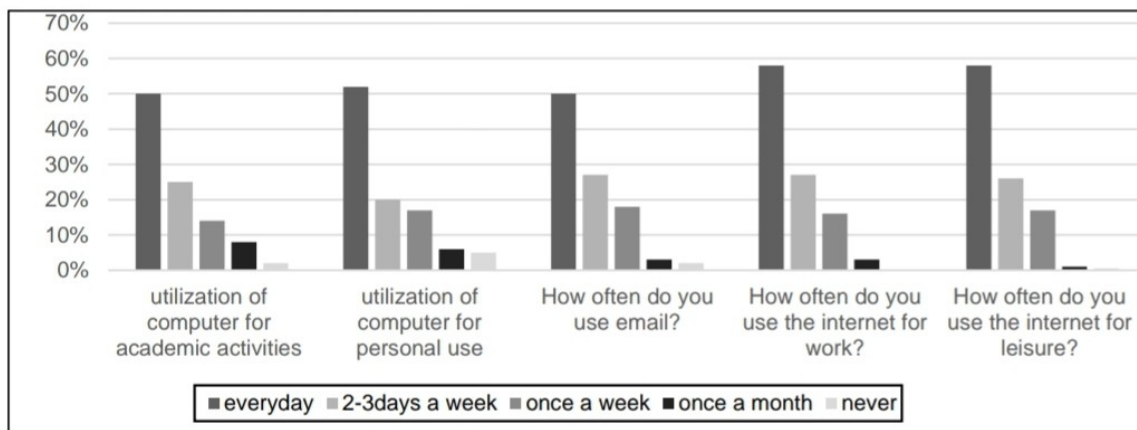
- a. 1 and 4
- b. 2 and 5
- c. 3 and 6
- d. 1 and 3

2. Read the passage given below.

1. The present generation is well updated in the use of internet and computers. The rapid development in computer technology and increase in accessibility of the internet for academic purposes has changed the face of education for everyone associated with it.

Let's look at the data arising out of a recent survey that was done to ascertain the time

spent on utilisation of the computer and internet:



2. At present, many schools and universities have been implementing internet-based learning, as it supplements the conventional teaching methods. The internet provides a wide variety of references and information to academics as well as scientific researchers. Students often turn to it to do their academic assignments and projects.

3. However, research on the Net is very different from traditional library research, and the differences can cause problems. The Net is a tremendous resource, but it must be used carefully and critically.

4. According to a 2018 Academic Student e-book Experience Survey, conducted by LJ's research department and sponsored by EBSCO, when reading for pleasure, almost 74% of respondents said they preferred print books for leisure whereas, 45 % of respondents chose e-books rather than the printed versions, for research or assignments.

5. When asked what e-book features make them a favourite for research, the respondents were clear. Having page numbers to use in citations, topped the list (75%); followed by the ability to resize text to fit a device's screen (67%); the ability to bookmark pages, highlight text, or take notes for later reference (60%); downloading the entire e-book (57%); and allowing content to be transferred between devices (43%) were the varied responses.

On the basis of your understanding of the passage, answer the questions that follow.

i. According to the passage, one of the reasons for the recent transformation of education is the:

- a. techno-efficiency of the present generation.
- b. expanse of courses on technology.
- c. simplification of the teaching and learning- method.
- d. easy availability of the internet.

ii. Pick the option that lists statements that are NOT TRUE according to the passage.

- 1. Internet-based education can only complement familiar methods of education.
- 2. Net-based learning will replace face-to-face education.
- 3. The resources that the net provides are a danger to the education system.
- 4. The current times has seen a rise in the convenience of using the internet for academic purposes.

a. 1 & 2

b. 3 & 4

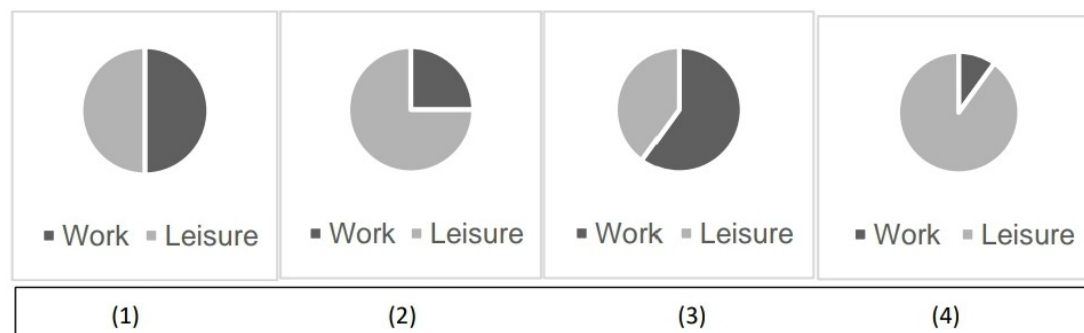
c. 2 & 3

d. 1 & 4

iii. The word 'tremendous', as used in paragraph 3, means the same as

- a. 'expensive'.
- b. 'renowned'.
- c. 'innovative'.
- d. 'incredible'.

iv. Based on the graphical chart in the passage, choose the option that correctly states the depiction of internet usage for work and for leisure, for once a month.



a. Option (1)

b. Option (2)

c. Option (3)

d. Option (4)

v. "... but it must be used carefully and critically." The idea of being careful and critical while using the internet, is mainly a reference to

a. hardware malfunction.

b. plagiarism.

c. troubleshooting.

d. virus threats.

vi. Based on the given graphical representation of data in the passage, choose the option that lists the statements that are TRUE with respect to the usage of email.

1. The everyday usage of email is more than the everyday usage of computer for personal use.

2. About 18% people use email once a week.

3. There are a smaller number of email users using it 2-3 times a week than the ones using it once a month.

4. Less than 5% of people never use the email.

a. 1 and 3

b. 2 and 4

c. 1 and 2

d. 3 and 4

vii. Based on the given graphical chart, pick the option that lists the area of zero response from

respondents.

a. Never using the internet for work and leisure

b. Daily use of the computer for academic activities

c. Writing and receiving emails once a week

d. Using the internet for personal tasks once a month

viii. In the cartoon, the student's reaction reveals that he is \_\_\_\_\_.

a) indignant

b) apologetic

c) obedient

d) inquisitive

ix. Which of the following statements is NOT substantiated by information in paragraph 4?

a. About three-quarters of the respondents preferred print books for recreational reading.

b. A little less than a 50% of the respondents voted for e-books for research or assignments.

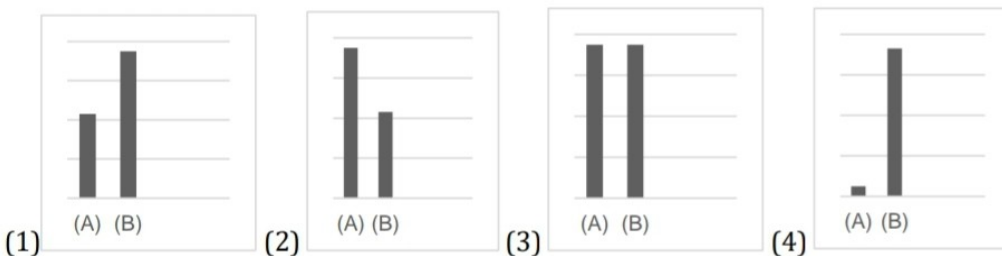
c. More than 50% respondents stated enjoying both versions of books for leisure reading.

d. The survey was intended for understanding the e-book experience among students.

x. According to the 2018 survey, which is the option that correctly displays the features of –

(A) page numbers for use in citation and

(B) content transfer between devices respectively.



a. Option (1)

b. Option (2)

c. Option (3)

d. Option (4)

xi. Arrange the given e-book features preferred for research from the least favourite to the most favourite, from the following –

1. downloading the entire e-book.

2. choosing page numbers in citations.

3. highlighting text.

4. resizing text to fit screen.



- a. 1, 3, 4, 2
- b. 3, 2, 1, 4
- c. 2, 4, 3, 1
- d. 4, 1, 2, 3

3. Read the extracts given below and attempt the questions that follow.

(A)

On sour cream walls, donations. Shakespeare's head,

Cloudless at dawn, civilised dome riding all cities.

Belled, flowery, Tyrolese valley. Open-handed map

Awarding the world its world. And yet, for these

Children, these windows, not this map, their world,

Where all their future's painted with a fog,

i. What does the expression - sour cream walls – suggest?

- a. Display of donated artefacts on the walls.
- b. Badly maintained walls.
- c. Wall-to wall furniture.
- d. A poor choice of paint for walls.

ii. The map of the world in the classroom symbolizes

- a. hopes and aspirations of the children.
- b. travel plans of the school authorities.
- c. a world that is unconnected to the children.
- d. interconnectivity within the world.

iii. The expression, Shakespeare's head is an example of

- a. pun.
- b. satire.
- c. parody.
- d. irony.

iv. In the extract, 'future's painted with a fog' suggests that the

(a) classroom is as foggy as the paint on the walls.

(b) beautiful valleys are not a part of the children's future.

(c) life ahead for the slum children is as unclear and hazy as fog.

(d) fog often finds itself in the classrooms through broken windows.

(B)

We have imagined for the mighty dead;

All lovely tales that we have heard or read;

An endless fountain of immortal drink,

Pouring unto us from the heaven's brink.

i. The phrase immortal drink refers to

a. blessings of our ancestors.

b. the teachings of nature.

c. a life-giving force.

d. the beauty of heaven.

ii. 'All lovely tales' evoke the feeling of

a. sadness and nostalgia.

b. only nostalgia.

c. inspiration and pride.

d. only pride.

iii. The rhyme scheme of the above extract is

a. aabb

b. abab

c. aaab

d. abbb

iv. The literary device used by the poet in the following lines is \_\_\_\_\_.

An endless fountain of immortal drink,

Pouring unto us from the heaven's brink.

a. personification.

b. allegory.

c. imagery.

d. synecdoche.

## WRITING

4.(A) You are Sameera/Sameer the owner of Pink Power, a café run only by women. You are looking for an interior designer to design the interiors of the café. Draft a suitable advertisement for the same, in about 50 words to be published in the classified columns of the National Daily, the local newspaper.

(B) You are Rachael/Rueben, President of the Wellness Cell of your school. You decide to organise a workshop, to raise awareness of the importance of mental health. This workshop would be conducted by the school counsellor. Write a notice in about 50 words, informing the students of class XI-XII about the workshop.

5. Attempt the following.

(A) You are Dr. Stanzin, a certified art therapist from Leh. You have been invited by G. D Public School, Jammu, to conduct a seminar for students on 'Art Therapy the Way Forward'. This seminar is to introduce students to the usefulness of art in dealing with personal and social problems. Write your reply, in about 50 words accepting the invitation.

(B) You are Rukmini/ Raja of R-201, Fort Road, Chennai. You have just purchased a new house. You decide to have a house-warming ceremony and invite your cousin Balaji. Write the invitation in 50 words giving all necessary details.

(C) You are Shubha/Krushna Mohanty, residing in Subhadra Apartments, Bhubaneswar, Orissa. You have observed, with increasing concern, that garbage collection continues to be done without segregation in your neighbourhood. Write a letter to the editor of The Real Times, Bhubaneswar, in about 120- 150 words, explaining your concern along with the rationale behind the importance of garbage segregation. Suggest ways in which the R.W.A s can participate in this program.

(D) You are Aami/ Ajoy Sarkar of 83, Model Town,



**Rangshala School, Guwahati**  
**SPORTS TEACHER NEEDED**  
A P.T.I needed (B.P.Ed); national level player; coaching experience preferred. Specialisation in volleyball/ hockey - a pre-requisite. Salary inclusive of PF. Apply with bio-data, addressed to the principal at 108, Model Town, Guwahati.

Guwahati, Assam. You are a sports enthusiast.

Rangshala School, Guwahati, has advertised the requirement of a Sports teacher, in the local news-paper. You are excited and decide to apply for the post. Write a letter in 100-120 words, responding to the given advertisement, submitting your candidature with a detailed bio-data.

(E) While reading about new places and searching for them online has its merits, the advantages of actually travelling to various destinations far exceed them. Write an article in 120-150 words for the magazine Travel Times, evaluating both these options. You may use the cues given below along with your own ideas. You are Amrit/ Amrita.

- Builds confidence
- Make friends and memories
- Experience new cultures
- Expands knowledge

### **Literature**

12. Attempt the following questions in 120-150 words.

(A) The story Deep Water talks about Douglas' attempts to overcome his fear of water.

The story can also be viewed as a figurative manifestation of life's many challenges.

Elaborate with reference to the text.

(B) How does the story, 'Rattrap' highlight the importance of community over isolation?

Support your rationale with textual evidence.

(C) Mr. Lamb calls Derek his friend while Derek refuses his affirmation. Would you consider their relationship with each other as friendship? Support your answer with reference to the instance(s) from the text.

(D) With respect to the events in the story, 'Should Wizard Hit Mommy', who would you

support , Wizard or Mommy? Justify your choice.

**Note: The assignment is to be done in a separate notebook and submitted to respective subject teachers on/before school reopening.**

CLASS- XII

ASSIGNMENT

HINDI

1. पाठ्यपुस्तक (आरोप):-नमक, श्रम विभाजन एवं जाति प्रथा तथा अतीत में दबे पाँव पाठ के प्रश्न उत्तर एवं परीक्षाभ्यास कार्य याद करें।
2. पत्रकारिता पर आधारित पूर्व में लिखवाए गए 30 प्रश्नों को फाइल पेपर पर लिखें।
3. परियोजना कार्य
  - सिंधु घाटी सभ्यता के प्रमुख शहर
  - मोहनजोदड़ो एवं हड़प्पा संस्कृति की नगर योजना
  - सिंधु घाटी सभ्यता के अस्त्र-शस्त्र, सिक्के एवं मोहरे वस्त्र एवं आभूषण एवं वर्तन

परियोजना कार्य के बारे में जानकारी एकत्र कर फाइल पेपर पर लिखें एवं चित्र भी चिपकाएँ।

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CLASS- XII

ASSIGNMENT

SANSKRIT

1. पाठ 9 का अभ्यास कार्य करें।
2. पाठ 11 का अभ्यास कार्य करें।
3. 2 अपठित गद्यांश का अभ्यास करें।

CLASS- XII

ASSIGNMENT

MATHS

Chapter – 9 (Differential Equation)

Exercise 9.1: All questions from NCERT Book.

Exercise 9.2: All questions from NCERT Book.

Exercise 9.3: All questions from NCERT Book.

Exercise 9.4: All questions from NCERT Book.

Exercise 9.5: All questions from NCERT Book.

NOTE: All questions are to be solved in separate copy and then submitted.

## CLASS- XII

## ASSIGNMENT

## PHYSICS

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1. A small bulb is placed at the bottom of a tank containing water to a depth of 80 cm. what is the area of the surface of water through which light from the bulb can emerge out? refractive index of water is  $\frac{4}{3}$ .
2. A small pin fixed on a table top is viewed from above from a distance of 50 cm? by what distance the pin appeared to be raised if it is viewed from the same point through a 15 cm thick glass slab held parallel to the table? refractive index of Glass is 1.5. does the answer depend on the location of the slab?
3. A beam of light converges to a point P. A lens is placed in the path of the convergent beam 12 centimetre from P. at what point does the beam converge if the lens is (a) a convex lens of focal length 20 cm, (b) a concave lens of focal length 16 cm?
4. What is the focal length of a combination of a convex lens of focal length 30 cm and a concave lens of focal length 20 cm in contact? Is the system a converging or diverging lens? ignore thickness of lenses.
5. A spherical convex surface of radius of curvature 20 cm, made of glass of refractive index 1.5 is placed in air. find the position of the image formed, if a point object is placed at 30 cm in front of the convex surface on the principal axis.
6. A converging and diverging lens of equal focal lengths are placed coaxially in contact. find the power and the focal length of the combination.
7. (a) name the phenomenon on which the working of an optical fibre is based.  
(b) what are the necessary conditions for this phenomenon to occur?  
(c) draw a labelled diagram of an optical fibre and show how light propagates through the optical fibre using this phenomenon.
8. Determine the value of the angle of incidence for a ray of light travelling from a medium of refractive index 1.4 into the medium of refractive index 1, so that it just grazes along the surface of separation.
9. An illuminated object and a screen are placed 90 cm apart. determine the focal length and nature of the lens required to produce a clear image on the screen, twice the size of the object.
10. A convex lens of focal length 20 cm and a concave lens of focal length 15 cm are kept 30 cm apart with their principal axes coincident. when an object is placed 30 cm in front of the convex lens, calculate the position of the final image formed by the combination. would this result change if the object were placed 30 cm in front of the concave lens? give reason.
11. Draw a ray diagram to show the formation of a real image of the same size as that of the object placed in front of a converging lens. using this ray diagram establish the relationship between  $u$ ,  $v$  and  $f$  for this lens.
12. The radii of curvature of both the surfaces of a lens are equal. if one of the surfaces is made plane by grinding, then will the focal length of the lens change? will the power change?
13. Calculate the speed of light in a medium whose critical angle is 45 degree.
14. (a) what is total internal reflection? under what condition does it occur

(b) find a relation between critical angle and refractive index.

(c) name one phenomenon which is based on total internal reflection.

15. A biconvex lens of glass of refractive index 1.5 having focal length 20cm is placed in a medium of refractive index 1.65. find its focal length. what should be the value of the refractive index of the medium in which the lens should be placed so that it acts as a plane sheet of glass?

16. A converging lens has a focal length of 20cm in air. it is made of a material of refractive index 1.6. if it is emerged in a liquid of refractive index 1.3, find its new focal length.

17. The radii of curvature of the faces of a double convex lens are 10 cm and 15 cm, if the focal length of the lens is 12 cm. find the refractive index of the material of the lens.

18. How does focal length of a lens change when red light incident on it is replaced by violet light? give reason for your answer.

19. What is the focal length of a combination of a convex lens of focal length 30cm and a concave lens of focal length 20cm in contact? is the system a converging or diverging lens? ignore thickness of lenses.

20. A double convex lens is made of glass of refractive index 1.55, with both faces of the same radius of curvature. find the radius of curvature required if the focal length is 20 cm?

CLASS- XII

ASSIGNMENT

CHEMISTRY

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Chapter- The d and f block elements

NCERT exercise and in text problems

Chapter - coordination compound

NCERT in text and exercise problems

Homework done in separate copy

CLASS- XII

ASSIGNMENT

BIO

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**Make assignment on any two topics:**

**1.ch-02 Sexual reproduction in flowering plants.**

**2.ch-03 Human reproduction.**

**3.ch-04 Reproductive Health.**

**4.ch-05 Principles of inheritance and variation.**

**5.ch-06 Molecular Basis of inheritance.**

**6.ch-08 Human health and diseases.**

**7.ch-10 Microbes in human welfare.**

**8.ch-11 Biotechnology: principles and processes.**

**9.ch-12 Biotechnology and its application.**

**10.ch- 13 Organisms and population.**

**11.ch-15 Biodiversity and conservation.**

**(NOTE: DO IN SCIENCE PRACTICAL PAGES)**

CLASS- XII

ASSIGNMENT

COMPUTER SC.

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Q. 1 What do you mean by Data Representation ? Explain different data structures.

Q. 2 What is difference between Stack and Queue ? Explain by an example.

Q. 3 Define following terms –

a. FIFO      b. LIFO      c. Underflow      d. Underflow

Q. 4 Write a program to create a Stack and implement following functions –

a. Push      b. POP      c. Display

Q. 5 What do you mean by Polish Strings ? What are different notations in which an expression can be written.

Q. 6 Convert following infix expression to its equivalent postfix expression showing each step in tabular form-

$(A - B) * (C / D) + E$

Q. 7 Evaluate following postfix expression and show each step of evaluation –

4 10 5 + \* 15 3 1 -

CLASS- XII

ASSIGNMENT

PE

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1. Draw a figure of human body and name the different types of muscles in a chart paper