

Q. 1 – Q. 5 carry one mark each.

- Q.1 We _____ our friend's birthday and we _____ how to make it up to him.
- (A) completely forgot --- don't just know
(B) forgot completely --- don't just know
(C) completely forgot --- just don't know
(D) forgot completely --- just don't know
- Q.2 Choose the statement where underlined word is used correctly.
- (A) The industrialist had a personnel jet.
(B) I write my experience in my personnel diary.
(C) All personnel are being given the day off.
(D) Being religious is a personnel aspect.
- Q.3 A generic term that includes various items of clothing such as a skirt, a pair of trousers and a shirt is
- (A) fabric (B) textile (C) fibre (D) apparel
- Q.4 Based on the given statements, select the most appropriate option to solve the given question.
- What will be the total weight of 10 poles each of same weight?
- Statements:
- (I) One fourth of the weight of a pole is 5 Kg.
(II) The total weight of these poles is 160 kg more than the total weight of two poles.
- (A) Statement I alone is not sufficient.
(B) Statement II alone is not sufficient.
(C) Either I or II alone is sufficient.
(D) Both statements I and II together are not sufficient.
- Q.5 Consider a function $f(x) = 1 - |x|$ on $-1 \leq x \leq 1$. The value of x at which the function attains a maximum, and the maximum value of the function are:
- (A) 0, -1 (B) -1, 0 (C) 0, 1 (D) -1, 2

Q. 6 – Q. 10 carry two mark each.

- Q.6 Out of the following four sentences, select the most suitable sentence with respect to grammar and usage:
- (A) Since the report lacked needed information, it was of no use to them.
(B) The report was useless to them because there were no needed information in it.
(C) Since the report did not contain the needed information, it was not real useful to them.
(D) Since the report lacked needed information, it would not had been useful to them.
- Q.7 Consider a function $f(x) = 1 - |x|$ on $-1 \leq x \leq 1$. The value of x at which the function attains a maximum, and the maximum value of the function are:
- (A) p/q (B) $(p/q)^{1/2}$ (C) $(p/q)^2$ (D) $(p/q)^{1/3}$

- Q.8 If p, q, r, s are distinct integers such that:
 $f(p, q, r, s) = \max(p, q, r, s)$
 $g(p, q, r, s) = \min(p, q, r, s)$
 $h(p, q, r, s) = \text{remainder of } p \times q / r \times s \text{ if } p \times q > r \times s \text{ or remainder of } r \times s / p \times q \text{ if } r \times s > p \times q$
- Also a function $fg h(p, q, r, s) = f(p, q, r, s) \times g(p, q, r, s) \times h(p, q, r, s)$
Also the same operations are valid with two variable functions of the form $f(p, q)$.
What is the value of $fg(h(2,5,7,3), 4,6,8)$?
- Q.9 If the list of letters, P, R, S, T, U is an arithmetic sequence, which of the following are also in arithmetic sequence?
- I. $2P, 2R, 2S, 2T, 2U$
 - II. $P-3, R-3, S-3, T-3, U-3$
 - III. P^2, R^2, S^2, T^2, U^2
- (A) I only
(B) I and II
(C) II and III
(D) I and III
- Q.10 Four branches of a company are located at M, N, O, and P. M is north of N at a distance of 4 km; P is south of O at a distance of 2 km; N is southeast of O by 1 km. What is the distance between M and P in km?
- (A) 5.34 (B) 6.74 (C) 28.5 (D) 45.49

END OF THE QUESTION PAPER