5.	Objectives of work measurement	1 point
	Mark only one oval.	
	Comparing alternative methods.	
	Assessing the correct initial manning (manpower requirement planning).	
	Planning and control.	
	Realistic costing.	
	none of the above	
	all	
6.	Objectives of work measurement	1 point
	Mark only one oval.	
	Financial incentive schemes.	
	Delivery date of goods	
	Cost reduction and cost control.	
	Identifying substandard workers.	
	none of the above	
	all	
7.	Techniques of Work Measurement includes	1 point
	Mark only one oval.	
	Time study(stop watch technique)	
	Synthetic data (synthesis)	
	Predetermined motion time study (PMTS)	
	Analytical estimating and work sampling	
	none of the above	
	all	

8.	A work measurement technique for recording the times and rates of working 1 point for the elements of a specified job carried out under specified conditions and for analyzing the data so as to determine the time necessary for carrying out the job at the defined level of performance.
	Mark only one oval.
	Time study(stop watch technique)  Synthetic data (synthesis)  Predetermined motion time study (PMTS)  Analytical estimating and work sampling  none of the above  all
9.	A work measurement technique for building up the time for a job or parts of the job at a defined level of performance by totaling element times obtained previously from time studies on other jobs containing the elements concerned or from synthetic data.  Mark only one oval.
	Time study(stop watch technique)  Synthetic data (synthesis)  Predetermined motion time study (PMTS)  Analytical estimating and work sampling  none of the above

10.	A technique in which a large number of observations are made over a period of time of one or group of machines, processes or workers. Each observation records what is happening at that instant and the percentage of observations recorded for a particular activity, or delay, is a measure of the percentage of time during which that activities delay occurs.	1 point
	Mark only one oval.	
	Time study(stop watch technique)	
	Synthetic data (synthesis)	
	Predetermined motion time study (PMTS)	
	Analytical estimating	
	work sampling	
	all	
11.	A work measurement technique whereby times established for basic human motions (classified according to the nature of the motion and conditions under which it is made) are used to build up the time for a job at the defined level of performance.	1 point
	Mark only one oval.	
	Time study(stop watch technique)	
	Synthetic data (synthesis)	
	Predetermined motion time study (PMTS)	
	Analytical estimating	
	work sampling	
	all	

12.	A work measurement technique, being a development of estimating, whereby the time required to carry out elements of a job at a defined level of performance is estimated partly from knowledge and practical experience of the elements concerned and partly from synthetic data.	1 point
	Mark only one oval.	
	Time study(stop watch technique)	
	Synthetic data (synthesis)	
	Predetermined motion time study (PMTS)	
	Analytical estimating	
	work sampling	
	all	
13.	Work measurement techniques in which past performance is used as a guideline for setting work performance standards. The main advantage of this technique is that it is simple to understand, quicker to estimate and easier to implement.	1 point
	Mark only one oval.	
	Time study(stop watch technique)	
	Historical data	
	Predetermined motion time study (PMTS)	
	Analytical estimating	
	work sampling	
	all	

14.	Work measurement techniques used for short cycle repetitive jobs	1 point
	Mark only one oval.	
	synthetic study	
	Historical data	
	Predetermined motion time study (PMTS)	
	Analytical estimating	
	work sampling	
	all	
15.	Work measurement techniques used for long cycle heterogeneous operations	1 point
	Mark only one oval.	
	synthetic study	
	Historical data	
	Predetermined motion time study (PMTS)	
	Analytical estimating	
	work sampling	
	all	
16.	Work measurement techniques used for manual operation confined to one work center	1 point
	Mark only one oval.	
	synthetic study	
	Historical data	
	Predetermined motion time study (PMTS)	
	Analytical estimating	
	work sampling	
	all	

17.	fact finding tool, to measure activities and delays while a man is working and percentage of that he is not working and to measure manual tasks that is to establish time standards for an operation.	1 point
	Mark only one oval.	
	work study	
	work measurment	
	Method study	
	Motion study	
	work sampling	
	all	
18.	A technique in which a statistically competent number of instantaneous observations are taken, over a period of time, of a group of machines, processes or workers  Mark only one oval.	1 point
	work study	
	work measurment	
	Method study	
	Motion study	
	work sampling	
	all	

19. The formula indicates calculation of, where, K = 1, 2 or 3 for confidences level 1 point of 68%, 95% and 99.7%, respectively.N = Total o. of random observations (sample size).S = Desired level of accuracy P = Percentage occurrence of an activity or delay, expressed in decimal e.g. 15% = 0.15.



Mark only one oval.

- onfidence level
- standered time
- sample size
- Normal time
- none of the above
- all
- 20. It is a work measurement technique for recording the times and rates of working for the elements of a specified job carried out under specified conditions, and for analyzing the data so as to obtain the time necessary for carrying out the job at a defined level of performance.

Mark only one oval.

- work study
- method study
- time study
- motion study
- none of the above
- all

21. The figure indicates,

SELECT
The job to be timed
1
OBTAIN & RECORD
Details Regarding method, Operator, Job and Working Conditions
1
DEFINE
The elements, Break the job into elements con- venient for timing
1
MEASURE
Time duration for each element and assess the rating
4
EXTEND
Observed time into normal time (Basic time)
1
DETERMINE
Relaxation and personal allowances
COMPUTE
Standard time for the operation for defined job or operation
Mark only one oval.
work study
method study
time study
motion study
none of the above
all

1 point

22.	it is the rate of output which a qualified worker will naturally achieve without over exertion as an average over the working day or shift provides they know and adhere to the specified method and provided they are motivated to apply themselves to their work.	1 point
	Mark only one oval.	
	Rating standered performance	
	confidence level	
	sampling	
	none of the above	
	all	
23.	It is the process of adjusting the actual pace of working of an operator by comparing it with the mental picture of pace of an operator working at normal speed. It is the percentage ratio of observed time and normal time.	1 point
	Mark only one oval.	
	standered performance	
	performance rating	
	confidence level	
	sampling	
	none of the above	
	all	

24.	External Factors Affecting Rate Of Working are	1 point
	Mark only one oval.	
	Variation in the quality or other characteristics of the material used even though prescribed tolerance limit.	it is in
	Changes in the operating efficiency of tools and equipment within their useful life	e.
	Unavoidable changes in methods or conditions of operations.	
	Changes in working conditions like heat, light, dust etc.	
	none of the above	
	all	
25.	internal Factors Affecting Rate Of Working are	1 point
	Mark only one oval.	
	Acceptable variation in the quality of the product.	
	Variations due to operator's ability.	
	Variation due to his attitude of mind.	
	Changes in the operating efficiency of tools and equipment within their useful life	e.
	all	
26	There are mostleeds of merformous a retina	T. marine
26.	These are methods of performance rating	1 point
	Mark only one oval.	
	The performance rating	
	Wasting house method of rating	
	Speed rating	
	Objective rating:	
	all	

27.	In this method, the operator's speed is rated against a single standard pace which is independent of job difficulty.	1 point
	Mark only one oval.	
	The performance rating	
	Wasting house method of rating	
	Speed rating	
	Objective rating	
	all	
28.	under this method is established by comparing observed time of some of the manual elements with those of known time values of the elements from predetermined motion and time studies	1 point
	Mark only one oval.	
	The performance rating	
	Wasting house method of rating	
	Speed rating	
	Objective rating	
	all	
29.	in this method Wasting house system utilizes a set of criteria to measure the performance of the operators. The factors are skill, effort, consistency, conditions.	1 point
	Mark only one oval.	
	The performance rating	
	Wasting house method of rating	
	Speed rating	
	Objective rating	
	all	

30.	In this technique the pace of the movements of the operator is the only factor considered for performance rating. it is found by the observer by comparing pace of operators working with his own concept of normal pace.	1 point
	Mark only one oval.	
	The performance rating	
	Wasting house method of rating	
	Speed rating	
	Objective rating	
	all	
31.	this allowance is a addition to the basic time intended to provide the worker with the opportunity to recover from the physiological and psychological effects of carrying out specified work under specified conditions and to allow attention to personal needs.	1 point
	Mark only one oval.	
	variable allowance relaxation allowance interference allowance contingency allowance policy allowance all	

32.	It is allowed to an operator who is working under poor environmental conditions that cannot be improved, added stress and strain in performing the job.	1 point
	Mark only one oval.	
	variable allowance	
	relaxation allowance	
	interference allowance	
	contingency allowance	
	policy allowance	
	all	
33.	It is an allowance of time included into the work content of the job to compensate the operator for the unavoidable loss of production due to simultaneous stoppage of two or more machines being operated by him.  Mark only one oval.  variable allowance  relaxation allowance  interference allowance  contingency allowance	1 point
	policy allowance	
	all	

34.	it is a small allowance of time which may be included in a standard time to meet legitimate and expected items of work or delays, the precise measurement of which is uneconomical because of their in frequent or irregular occurrence.	1 point
	Mark only one oval.	
	variable allowance	
	relaxation allowance	
	interference allowance	
	contingency allowance	
	policy allowance	
	all	
35.	it is an increment, other than bonus increment, applied to a standard time (or to some constituent part of it, e.g., work content) to provide a satisfactory level of earnings for a specified level of performance under exceptional circumstances.  Mark only one oval.	1 point
	variable allowance	
	relaxation allowance	
	interference allowance	
	contingency allowance	
	policy allowance	
	all	

36.	choose correct formula for standered time	1 point
	Mark only one oval.	
	work content + unavoidable delay  basic time + relaxation allowance + contingency allowance  observed time + rating factor + relaxation allowance + contingency allowance  none of the above  all	
37.	It consists of a set of time data and a systematic procedure which analyses and subdivides any manual operation of human task into motions, body motions, or other elements of human performance, and assigns to each the appropriate time value.	1 point
	Mark only one oval.	
	PMT Analysis	
	work study	
	motion study	
	none of the above	
	all	

38.	A procedure which analysis any manual operation or method into the basic motion required to perform it and assigns to each motion to predetermined time standards which is determined by the nature of the motions and the conditions under which it was made	1 point
	Mark only one oval.	
	PMT Analysis	
	MTM analysis	
	motion study	
	none of the above	
	all	
39.	A work sampling study showed that 20% of a work week of 48 hours was consumed by avoidable delays. If each time a work sampling observation was made the operator was rated and the average of such rating was 110%. If 100 units were produced by the operator in that period, calculate standard time.	2 points
	Mark only one oval.	
	2.5344	
	25.344	
	32.344	
	none of the above	
	all	

40. The elemental times in 4 cycles of an operations using a stop watch are as below, Calculate standard time for the operation if,a) Elements 2 and 4 are machine elements.b) For other elements, the operator is rated at 110%c) Total allowances are 15% of the normal time.

Elements	Cycles time in minutes					
	1	2	3	4		
1	1.5	1.5	1.3	1.4		
2	2.6	2.7	2.4	2.6		
3	3.3	3.2	3.4	3.4		
4	1.2	1.2	1.1	1.2		
5	0.51	0.51	0.52	0.49		

Mark only one oval.

	1	2.	5	3	4	4
\		_	. •	v	_	т

10.484

1.0484

none of the above

all (

41. A work sampling study was conducted to establish the standard time for an operation. The observations of the study conducted as below, Total no of observation = 160, manual (hand) controlled work = 14, machine controlled work = 106, machine idle time = 40, average performance rating = 80%, no of parts produced = 36, allowance for personal needs and fatigue = 10%, study conducted for 3 days, available working hours per day = 8 hrs. Calculate the standard time per piece.

Mark only one oval.

32.23

23.32

22.33

33.22

all

42. The following data refers to a sampling study of production of one component, Duration of data collection 5 days @8hours per day, number of operations = 10, allowances given for the process = 15%, production quantity in 5 days = 6000 components, sampling data collected, Calculate standard time of production of the component if average performance rating of the operator is 120% and the entire operation is manual.

Days	1	2	3	4	5
No. of observations	230	240	200	180	225
Occurrence of activity	200	190	170	150	210

Mark	only	one	oval.
IVIGII		OIIC	Ovar.

$\overline{}$	)	32.	

47.24

22.33

33.22

all (

43. A work sampling study was conducted for 100 hours in the machine shop in order to estimate the standard time. The total number of observations recorded was 2500; no working activity could be noticed for 400 observations. The ratio between manual and machine element was 2:1. Average rating factor was estimated as 1.15 and the total number of articles produced during the study period was 6000. Rest and personal allowances may be taken as 12% of the normal time.

Mark only one oval.

1.038 minutes.

10.38 minutes.

0.1038 minutes.

none of the above

\_\_\_\_ all

	There are two industries manufacturing two types of plugs. The standard time per piece is 1.5 minutes. The output of the two industries is 300 and 200 respectively per shift of 8 hours. a) What is the productivity of each per shift of 8 hours?b) What is the production of each per week (6 days) on the basis of double shift?	
	Mark only one oval.	
	a) 3600 b)2400 respectively	
	a) 2400 b)3600 respectively	
	a) 240 b)360 respectively	
	none of the above	
	all	
45.	A work study was conducted in machine shop. The data has been recorded. Total number of observations = 2000, No activities = 500, the ratio between manual to machine = 3:1 portion of the activities, average performance rating = 85%, total number of pieces produced = 120 during study, duration of the study = 60hrs, calculate the standard time / piece assuming 15% relaxation allowance.  Mark only one oval.  24.5  2.45  25.4  45.2  all	3 points

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